

101
56634
CRLS

Smithsonian Year 1990 Supplement

Chronology and Appendixes



Smithsonian Institution Press
Washington, D.C.

Smithsonian Year 1990 Supplement

Chronology and Appendixes

Smithsonian Institution Press
Washington, D.C.

Contents

Chronology	5
Appendix 1. Members of the Smithsonian Councils, Boards, and Commissions, September 30, 1990	37
Appendix 2. Visitors to Smithsonian Institution Museums in Fiscal Year 1990	52
Appendix 3. Academic, Research Training, and Internship Appointments in Fiscal Year 1990	54
Appendix 4. Publications of the Smithsonian Institution Press in Fiscal Year 1990	131
Appendix 5. Publications of the Staff of the Smithsonian Institution and Its Subsidiaries in Fiscal Year 1990	137
Appendix 6. The Smithsonian Institution and Its Subsidiaries, September 30, 1990	261
Appendix 7. Donors to the Smithsonian Institution in Fiscal Year 1990	321
Appendix 8. Contributing Members of the Smithsonian Institution in Fiscal Year 1990	410

Note: The arrangement of bureau listings within the individual appendixes is not alphabetical but rather follows as closely as possible the organization of the Smithsonian Institution as shown on the next page.

The pages of this *Supplement* were photomechanically reproduced from typescript provided by the bureaus and offices.

Smithsonian Institution

- Establishment, Board of Regents, Executive Committee,
and the Secretary
- Office of the Secretary
- Office of the Under Secretary
- Office of the Inspector General
- Office of the General Counsel
- Office of the Treasurer
- Office of the Assistant Secretary for Research
International Center
- Joseph Henry Papers
- National Zoological Park
- Office of American Studies
- Office of Fellowships and Grants
- Office of Interdisciplinary Studies
- Smithsonian Astrophysical Observatory
- Smithsonian Environmental Research Center
- Smithsonian Institution Archives
- Smithsonian Institution Libraries
- Smithsonian Tropical Research Institute
- Office of the Assistant Secretary for Museums
- Anacostia Museum
- Archives of American Art
- Arthur M. Sackler Gallery
- Conservation Analytical Laboratory
- Cooper-Hewitt National Museum of Design
- Freer Gallery of Art
- Hirshhorn Museum and Sculpture Garden
- National Air and Space Museum
- National Museum of African Art
- National Museum of American Art
- National Museum of American History
- National Museum of Natural History/National
Museum of Man
- National Museum of the American Indian
- National Portrait Gallery
- Office of Exhibits Central
- Office of Horticulture
- Office of Museum Programs
- Office of the Registrar
- Smithsonian Institution Traveling Exhibition Service
- Smithsonian Internship Council
- Office of the Assistant Secretary for Public Service
- National Science Resources Center
- Office of Elementary and Secondary Education
- Office of Folklife Programs
- Office of Public Affairs
- Visitor Information and Associates' Reception Center
- Office of the Assistant Secretary for External Affairs
- National Demonstration Laboratory for Interactive
Educational Technologies
- Office of Membership and Development
- Women's Committee of the Smithsonian Associates
- Smithsonian National Associate Program
- Smithsonian Resident Associate Program
- Office of Congressional Liaison
- Office of Special Events
- Office of Telecommunications
- Smithsonian Institution Press
- Smithsonian* Magazine
- Air & Space/Smithsonian* Magazine
- "Smithsonian World"
- Office of the Assistant Secretary for Institutional
Initiatives
- Office of the Assistant Secretary for Administration
Under Separate Boards of Trustees
- John F. Kennedy Center for the Performing Arts
- National Gallery of Art
- Reading Is Fundamental, Inc.
- Woodrow Wilson International Center for Scholars

Chronology

The following listing is a representative selection of Smithsonian events during fiscal year 1990.

October

Program: The National Air and Space Museum launched a major 16-month series of public and by-invitation-only lectures, films, and symposia on "The Legacy of Strategic Bombing." Speakers included physicists Philip Morrison and Freeman Dyson, writer Kurt Vonnegut, Gen. Curtis E. LeMay, and economist John Kenneth Galbraith.

October

Acquisition: A collection of 1,500 early stereographs and a unique photo album of Sioux Indians and their families, one of the largest and rarest collections of early American Indian photographs, was acquired by the National Anthropological Archives of the National Museum of Natural History from George Allen, a Kansas collector.

October

Research: Radar images of a small asteroid that passed close to Earth were obtained by Smithsonian Astrophysical Observatory scientists at Arecibo, Puerto Rico, and by colleagues elsewhere. The images were the first to provide direct evidence of a bifurcated mass in such objects and revealed that the asteroid may be the result of a collision between two separate objects, each one-half mile long.

October

Acquisition: The Smithsonian Institution Libraries purchased a large portion of the trade catalogue collection of some 56,500 items once held by the Franklin Institute, Philadelphia. The catalogues cover the full range of developments in American manufacturing, agriculture, and technology. The Regents' Collections Acquisitions Fund provided funds for the purchase.

October

Course: A six-week Resident Associate Program course began, titled "The *Wall Street Journal* at the Smithsonian: American Business and the World Economy in the 1990s and Beyond." Cosponsored with the *Wall Street Journal*, this course was videotaped and subsequently broadcast to a national audience via the PBS Adult Services network.

October

Fellowships and Grants: During this fiscal year, the Office of Fellowships and Grants made a record number of awards under its Scholarly Studies program (39) and its Research Resources program (11).

October

Grants: With awards from the James Smithson Society and the Kress Foundation, the Conservation Analytical Laboratory began implementing plans to augment the autoradiography facilities at the National Institute for Standards and Technology.

October 5-6

Cultural Diversity: The first meeting was held of the Ad Hoc African American Media Advisory Committee, organized by the Office of Public Affairs with a grant from the Educational Outreach Program. The committee of 10 local and national journalists was established to provide advice on how the Smithsonian can reach out to the African American community.

October 12

Event: The Smithsonian's Hispanic Heritage Planning Committee presented a day-long public event commemorating Hispanic Heritage Month. A keynote address by filmmaker Luis Valdez, founder of El Teatro Campesino, was followed by a public film and panel discussion celebrating 25 years since the founding of El Teatro Campesino.

October 12

Exhibition: "Portrait of the American Law" opened at the National Portrait Gallery with a dinner and reception. Chief Justice William Rehnquist presided, and three associate justices, several prominent judges, and many attorneys attended.

October 14

Silver Anniversary: The National Museum of American History celebrated its 25th anniversary with an open house that included demonstrations, behind-the-scenes tours, hands-on workshops, musical performances, children's activities, and a birthday cake model of the museum.

October 17

Exhibition: "The Intimate World of Alexander Calder," featuring Calder's unique creations of teacups, toys, and jewelry, opened at the Cooper-Hewitt National Museum of Design. Members of the artist's family attended the opening reception.

October 19

Colloquium: The international colloquium "Sharing Innovation: Global Perspectives on Food, Agriculture, and Rural Development," the third in the world food and agriculture series, was sponsored by the Office of Interdisciplinary Studies and coordinated by the Office of Conference Services.

October 20

Dialogue: "Caribbean Literature: The Role of the Artist in an Evolving Nationalist Society," the second dialogue in a series, was presented by the project office for the "Caribbean Festival Arts" exhibition in collaboration with the Woodrow Wilson International Center for Scholars.

October 20

Exhibition: "Stand By Me: African American Expressive Culture in Philadelphia," a photodocumentary exhibition of the work of Washington, D.C., photographer Roland Freeman organized by the Office of Folklife Programs, opened in Philadelphia.

October 25

Exhibition: A major loan exhibition "Icons: Ideals and Power in the Art of Africa," which explored the ways African peoples have depicted and interpreted five iconic representations, opened at the National Museum of African Art.

October 25-28

Symposium: The international symposium "Les Droits de l'Homme and Scientific Progress" was cosponsored by the Office of Interdisciplinary Studies and the National Academy of Sciences. The symposium, the 10th in the Smithsonian international symposium series, commemorated the 200th anniversary of the Declaration of the Rights of Man and Citizen, the Bill of Rights, and the French Revolution. The symposium summary was published in September 1990 by the Office of Interdisciplinary Studies.

October 30

Publication: *Hirshhorn Works 1988* was published by the Hirshhorn Museum and Sculpture Garden, the first in a series of annual catalogues with essays and photodocumentation on the museum's site-specific *Works* projects. *Hirshhorn Works*

1989, a second yearbook made possible by the LEF Foundation, was published on September 1, 1990.

November

Research: The first astronomical detection of submillimeter-wave radiation from water masers in star-forming regions of our galaxy was announced by Smithsonian Astrophysical Observatory scientists who used the Caltech Submillimeter Observatory on Mauna Kea, Hawaii, for this observation of "hot water" in space.

November

Automated Circulation: The Smithsonian Institution Libraries introduced automated circulation to its branch at the National Air and Space Museum. This year automated circulation was added in four branches, bringing to eight the number of locations now using the automated system.

November

Video Project: The Office of Telecommunications completed four pilot programs for the *Natural History Updates* series of videotapes to be shown in the National Museum of Natural History rotunda.

November

Milestone: *Amelia Earhart*, by Doris L. Rich, became the first Smithsonian Institution Press book to be reviewed on the front page of the *New York Times Book Review*. Dell Publications later won the auction for rights to publish a paperback version of the book.

November

Research: Discovery of the largest single coherent structure ever seen in nature—a thin sheet of galaxies stretching more than a half-billion light-years across space—was announced by two Smithsonian Astrophysical Observatory astronomers in *Science* magazine as part of their long-term project to construct three-dimensional maps of the universe.

November

Acquisition: A nineteenth-century throne of the Hehe peoples of Tanzania, carved in the form of a female torso, was a major gift to the National Museum of African Art.

November 1

Acquisition: Heading a distinguished list of acquisitions for the year, Henry Moore's *Stringed Figure No. 1*, 1937, one of the British artist's most admired early masterworks,

was acquired by the Hirshhorn Museum and Sculpture Garden at the fall meeting of the board of trustees through the Joseph H. Hirshhorn Purchase Fund.

November 2

Restoration: Analysis, photographic documentation, and treatment began in a two-year project to restore the Freer Gallery of Art masterpiece, "Harmony in Blue and Gold: The Peacock Room" by American expatriate artist James McNeill Whistler, to its former splendor. The Peacock Room, designed for the London townhouse of Whistler's patron Frederick Leyland and later installed at the Freer Gallery, has been a favorite of visitors since the museum opened to the public in 1923.

November 2-3

Symposium: Twenty-two authorities examined the long-controversial question of New World human population and diseases before and after contact with the Europeans at the symposium "Disease and Demography in the Americas: Changing Patterns Before and After 1492." The event was part of the National Museum of Natural History's programs honoring the 500th anniversary of Columbus' landing in the New World.

November 3

Exhibition: A Grumman G-21 "Goose" amphibian was placed on display in the Hall of Air Transportation of the National Air and Space Museum. The aircraft on exhibit was retired in 1977 after many years of service in California, Florida, and the Bahamas.

November 13

Lecture: The Smithsonian Institution Libraries (SIL) presented a lecture by Jack R. Censer of George Mason University on "Jean Paul Marat" in conjunction with the SIL exhibition, "Science and the French Revolutionaries," curated by Censer. The lecture was cosponsored by the Women's National Book Association (Washington Chapter) and the District of Columbia Library Association.

November 14

Exhibition: "To Color America: Portraits by Winold Reiss" opened at the National Portrait Gallery. A diverse and enthusiastic group of guests--including the artist's son and family, lenders and donors, representatives of the Blackfoot Tribe and other Native Americans, African Americans, and Asians--attended the opening reception.

November 15

New Facility: The Smithsonian Information Center opened to the public in the Great Hall of the Castle. The state-of-the-art center is a multifaceted information and

orientation source for visitors to the Smithsonian and provides assistance on other popular attractions in the nation's capital.

November 16

Exhibition: An exhibition on the accomplishments of Russian-born aviation pioneer Igor Sikorsky opened at the National Air and Space Museum. Photographs and artifacts illustrate Sikorsky's achievements, including the creation of the world's first four-engine aircraft in 1913. The centerpiece of the exhibition is the VS-300, the world's first practical single-rotor helicopter.

November 17

Dialogue: "The Evolving Empowerment of Caribbean Women" was the third in a series of four dialogues presented at the Woodrow Wilson International Center for Scholars in collaboration with the project office of the "Caribbean Festival Arts" exhibition.

November 21-25

International Training Program: The Office of Museum Programs held an international conference and training course, "Making Exhibitions, Constructing Realities," at the Museu Paracense Emilio Goeldi, Belem, Para, Brazil.

November 27-30

Seminar: More than 100 Associates from 26 states participated in the Smithsonian National Associate Program's "Update: Eastern Europe and the U.S.S.R." Journalists Hedrick Smith and Peter Jennings, Assistant Secretary for Research Robert Hoffmann, and Kennan Institute staff and visiting scholars provided background and varied opinions on the dramatic changes taking place in these nations.

November 28

Milestone: The National Museum of the American Indian, the 15th museum in the Smithsonian family, was established with the signing of Public Law 101-185. The museum will have three components: the George Gustav Heye Center, located in the old U.S. Custom House in lower Manhattan; a storage, research, and conservation facility in Suitland, Maryland; and a museum on the National Mall next to the National Air and Space Museum.

December

Lecture: Internationally respected paleontologist Stephen Jay Gould lectured to a capacity audience of Resident Associates about his latest book *Wonderful Life: The Burgess Shale and the Nature of History*.

December

Acquisition: The Smithsonian Institution Libraries branch at the Office of Horticulture received a gift of some 186 books, catalogues, and business files from the nursery firm of Lewis and Valentine, formerly of Long Island, New York. The gift was presented by Hewlett W. Lewis, former partner of the firm.

December

New Program: The first year of the new Corporate Associate Program ended with 15 major corporations participating as founding members. The chief executives of Anheuser-Busch Companies, Ford Motor Company, and Monsanto Company agreed to serve as vice-chairmen.

December

Exhibition: A photographic exhibition on the history of the Smithsonian Institution Building was hung in the Castle.

December

Loan: The portrait of Mary Cassatt by Edgar Degas returned to the National Portrait Gallery from Kobe, Japan, where it was included in an exhibition reassembling the collection of Kojiro Matsukata, who owned the painting from 1923 to 1951.

December

Exhibition: The 13th annual "Trees of Christmas" exhibition, organized by the Office of Horticulture, was on view during the holiday season at the National Museum of American History.

December 7

Awards: The Office of Public Affairs placed well in the National Association of Government Communicators' annual Blue Pencil competition by winning first-place honors for a Smithsonian News Service story and for a news release on activities for children; second place for the monthly employee newspaper, the *Torch*; and third place for the newsletter *Research Reports*.

December 8

Dialogue: The project office of the "Caribbean Festival Arts" exhibition and the Woodrow Wilson International Center for Scholars collaborated in the presentation of the fourth and final dialogue in the series, titled "Caribbean Politics: 500 Years after Columbus."

December 13

Reception: Sculptor Martin Puryear, winner of the Grand Prize at the 1989 Sao Paulo Bienal in Brazil, was honored by a reception at the Hirshhorn Museum and Sculpture Garden. The event was cohosted by the U.S. Information Agency, which sponsors United States participation in this prestigious international art exhibition.

December 21

Exhibition: The National Air and Space Museum opened an exhibition of works by British artist Rowland Emett. "Too Late for the Past, Too Early for the Future: Drawings and Things by Rowland Emett" included three fanciful, animated sculptures and a variety of whimsical paintings and pen-and-ink drawings.

January

Agreement: The Smithsonian Tropical Research Institute and the Office of the Assistant Secretary for External Affairs helped to facilitate a \$10 million debt-for-nature swap between the United States and Panama.

January

Film Premiere: The Smithsonian Resident Associate Program premiered for Washington audiences the acclaimed film *Glory*, which depicts the Civil War exploits of the famous 54th Regiment of Massachusetts Volunteer Infantry composed of African Americans. Some of the Civil War reenactors featured in the film attended the premiere.

January

Award: "Guide to the Smithsonian," a video produced by the Office of Telecommunications, won a Gold Medal at the International Film and TV Festival of New York, adding to a Golden Eagle from the Council on International Non-theatrical Events and a Chris Award from the Columbus Film Festival.

January

Exchange Program: The Office of Folklife Programs initiated a U.S.-U.S.S.R. exchange project involving American and Soviet scholars studying traditional cultures and their transformations in Soviet and Soviet American communities.

January

Research: The first confirmed detection of gamma rays from the Crab Nebula was made by a Smithsonian scientist at the Whipple Observatory using a 10-meter-diameter Cherenkov Telescope, thus setting a benchmark for future ground-based observations.

January

Grant: The American Chemical Society agreed to give \$5 million to the National Museum of American History to support the exhibition "Science in American Life," scheduled to open in 1993.

January

Cultural Diversity: The first edition of *Smithsonian Runner*, a bimonthly newsletter for Native Americans, was published. *Runner*, produced by the Office of Public Affairs, reports on Smithsonian activities and research relevant to the Native American community.

January-June

Research: The SI/Man and the Biosphere Program traveled to Puerto Rico to continue research, conduct the two-year census of the permanent plots established there in 1988, and assess the damage caused by Hurricane Hugo in October 1989. The program also performed the 1990 census and continued research on the four permanent plots established in 1987 in the tropical rainforest of Beni, Bolivia.

January 9

Acquisition: First Lady Barbara Bush officially presented her Inaugural Ball gown to the National Museum of American History's First Ladies Collection. Every first lady from Martha Washington to Barbara Bush is now represented in the collection with an inaugural dress or other garment.

January 12

Award: The International Film and Television Festival of New York conferred a finalist award on the Smithsonian and the Close Up Foundation for the video documentary "Democracy and Rights: One Citizen's Challenge."

January 15

Special Event: The Smithsonian's Cultural Education Committee sponsored the annual Martin Luther King, Jr., Holiday Celebration at the National Museum of Natural History. Designed to highlight issues of contemporary concern, the program featured Vine Deloria, Jr., noted author and past executive director of the National Congress of American Indians, as the keynote speaker. The American Indian Theatre Company of Oklahoma performed.

January 17

Awards: The Society for Technical Communication honored a number of Office of Public Affairs products in its annual publications competition--Smithsonian News Service stories won three second-place awards and one third-place award; the *Torch* won second place; and *Research Reports* won third place for the newsletter as a whole and for each of two articles.

January 23

Lecture: Alpha Konare, president of the International Council of Museums, addressed the International Cultural Assistance Network, an organization of individuals interested in international cultural exchange for which the Smithsonian's Office of International Relations serves as secretariat.

January 24

Season Premiere: The fifth season of "Smithsonian World" was launched on PBS stations nationwide, with the broadcast of "Zoo," which was solely devoted to the National Zoological Park.

January 29

Announcement: Secretary Adams announced that the Smithsonian's Board of Regents voted to reaffirm its preference for Washington Dulles International Airport as the site for the proposed extension of the National Air and Space Museum. The announcement was made at a press conference in the museum's Hall of Air Transportation.

February

Grant: The Smithsonian Institution Libraries branch at the Cooper-Hewitt National Museum of Design received \$4,000 from the Smithsonian Women's Committee to purchase the third volume of *Le Garde Meuble* (1848-1852), completing the rare and unusual set of French design plates.

February

Cultural Diversity: The Office of Public Affairs produced a paid radio advertising campaign with ads on Washington, D.C., radio stations WHUR and WKYS, two stations with high ratings in the African American community. The Smithsonian Information Center responded to the resulting requests by mailing approximately 1,400 packets.

February

Appointment: Assistant Secretary for External Affairs Thomas Lovejoy was appointed to the President's Council of Advisors on Science and Technology.

February

Symposium: In cosponsorship with the American Institute of Architects (AIA), the Resident Associate Program presented an all-day symposium of seven internationally renowned architects, all 1990 winners of AIA awards for design excellence.

February

Grant: The Office of Telecommunications received a \$224,000 grant from the Corporation for Public Broadcasting toward production of a radio series examining the Columbus encounter and its aftermath from the Native American perspective.

February

Award Nominations: The Smithsonian Collection of Recordings' "American Musical Theater" and "Jazz Piano" were nominated for two Grammy awards each: Best Historical Album and Best Album Notes.

February

Award: The "Smithsonian Touch Screen Video Program," created by the Office of Telecommunications for the new Smithsonian Information Center, received top honor for best consumer information program by the Nebraska Interactive Videodisc Awards.

February

Workshop: A workshop on implementing Section 106 of the National Historic Preservation Act was presented for the staff of the Facilities Services group by the Office of Architectural History and Historic Preservation and the federal Advisory Council on Historic Preservation.

February

Grant: The National Museum of African Art received a grant from the Smithsonian Women's Committee for the development of educational materials and programs for deaf and hard-of-hearing visitors.

February 17

Workshop: The Office of Elementary and Secondary Education held a Regional Workshop Program for teachers in Wilmington, N.C., in collaboration with a consortium of Wilmington museums. The workshop built on the foundation laid by the community's 1988 workshop.

February 21

Symposium: A near-capacity crowd gathered in the Hirshhorn Museum's Marion and Gustave Ring Auditorium for a lively debate about art of the 1980s featuring Ned Rifkin, the museum's chief curator for exhibitions; Kathy Halbreich of the Museum of Fine Arts, Boston; and four curators from Washington, D.C., museums. The symposium was presented in conjunction with *Culture and Commentary: An Eighties Perspective*, the exhibition and catalogue that Halbreich, serving as guest curator, assembled for the museum.

March

Exhibition: The Hughes H-1 racer, the aircraft designed by Howard Hughes that set both absolute speed and transcontinental speed records during the 1930s, was placed on display in the National Air and Space Museum's Golden Age of Flight gallery.

March

Briefing: The Office of the Assistant Secretary for External Affairs facilitated the briefing "Global Change in the Geological Record" for incoming members of the National Council of the National Museum of Natural History. The briefing was hosted by Senator Albert Gore, Jr. (D-Tenn.).

March

Public Service Announcement: A 30-second public service announcement for television featuring Robert Redford was produced by the Office of Public Affairs and distributed to 300 stations throughout the country for use beginning around the time of Earth Day 1990. The spot aired in all 50 states and continued to be used in some areas for at least six months.

March

Publication: The Smithsonian Tropical Research Institute published *Ecologia de un Bosque Tropical*, the Spanish-language version of *Ecology of a Tropical Forest*, edited by Egbert G. Leigh, Jr., A. Stanley Rand, and Donald Windsor. This book will disseminate results of research on Barro Colorado Island to Spanish-speaking audiences throughout Latin America.

March

Publication: *Investigating Artistic Environments in the Ancient Near East*, a series of papers edited by Ann Gunter, assistant curator of ancient Near Eastern art at the Arthur M. Sackler Gallery and the Freer Gallery of Art, was published with generous support from Mrs. Arthur M. Sackler. The papers had been presented at an international symposium held at the Sackler Gallery in 1988, also supported by Mrs. Sackler.

March 1-4

Regional Event: The Smithsonian National Associate Program's U.S. and International Events division presented a weekend of lectures and a seminar in Grand Junction, Colorado, focusing on Hispanic heritage. Cosponsoring organizations included Mesa State College, the Museum of Western Colorado, and the Western Colorado Center for the Arts. Among the topics were "The Revival of Hispanic Traditional Arts" and "Our Hispanic Heritage." The program's theme prompted the cosponsors to develop a month-long festival titled "Viva Latinos."

March 6

Acquisition: The National Air and Space Museum received one of the U.S. Air Force's newly retired SR-71 supersonic reconnaissance aircraft. Museum Director Martin Harwit addressed a group of guests and media representatives at a ceremony at Washington Dulles International Airport. The aircraft is slated for display at the proposed extension of the museum.

March 7

Lecture: The celebrated Soviet conceptual artist Ilya Kabakov spoke about his work for the first time publicly in the United States in conjunction with his newly opened mixed-media installation at the Hirshhorn Museum and Sculpture Garden, *Directions--Ilya Kabakov: Ten Characters*. His talk was a highlight of the 1989-90 season of "Focus" exhibition talks at the museum. On March 29, the museum hosted the world premiere of *USSart*, a documentary film about the effect of glasnost on other progressive Soviet artists.

March 16

Outreach Program: The Arthur M. Sackler Gallery continued its outreach to Asian audiences in the Washington area with a public celebration of Nowruz (Persian New Year). Verses by the 13th-century Persian poet and mystic Jalal al-Din Rumi were read in Persian and English following an introductory lecture. The celebration was funded by contributions given in support of Persian art and cultural programming and gifts in memory of General H.J. Jablonsky.

March 24

Special Event: Friends of the National Zoo sponsored Seal Day, a day of public activities to focus attention on the international day of the seal.

March 27

New Facility: The Smithsonian Tropical Research Institute (STRI) formally dedicated the new Earl Silas Tupper Research and Conference Center. Secretary Adams,

Panamanian President Guillermo Endara, and members of the Smithsonian Board of Regents attended the dedication ceremonies. STRI's first professionally designed exhibition, "Parting the Green Curtain: The Evolution of Tropical Biology in Panama," opened to the public at the Tupper Conference Center. On March 28, STRI officially inaugurated its new living, dining, and conference facilities on Barro Colorado Island.

March 28

Exhibition: Photographer Irving Penn and his family and USAir Chairman and Mrs. Edwin Colodny joined 300 guests at the opening reception for "Irving Penn: Master Images" at the National Portrait Gallery (NPG). The exhibition and catalogue, joint projects of the National Museum of American Art and NPG and sponsored by USAir, made public a major gift from the photographer.

March 31

Symposium: The Office of Elementary and Secondary Education, in collaboration with the National Museum of American History, held a day-long symposium for teachers. "Word of Mouth: Storytelling and Multicultural Education" introduced teachers to four ethnic oral traditions and showed them how to incorporate these traditions into their classrooms.

April

Anniversary: *Smithsonian* magazine commemorated its 20th anniversary with the publication of a special issue on the environment.

April

Publication: In the culmination of a five-year project, *The Papers of Robert Mills* was published by the National Museum of American History as a 15-reel microfilm set to make the writings of the architect of the Washington Monument and other important buildings available for scholarly research. The project involved collaboration with the Universities of Iowa and South Carolina and support from the National Endowment for the Humanities, the National Historical Publications and Records Commission, and other organizations.

April

Earth Day Events: The Office of the Assistant Secretary for External Affairs coordinated Earth Day events Institution-wide on the Mall and jointly sponsored the Earth Day lunch in the Capitol.

April

Video Distribution: The Office of Telecommunications distributed a videotape production "Covering the Environment: Front Page or Yesterday's News?" to 875 media professionals nationwide. The videotape was based on a meeting held at the Smithsonian in September 1989.

April

Acquisition: The Smithsonian Institution Libraries purchased the Robert D. Mussey, Jr., Collection of antiquarian books on varnishes and furniture finishes. The 70 volumes, ranging in date from 1702 to 1930, include most of the 19th- and 20th-century standard works, as well as some rare titles. The collection by Mussey, an expert in the field of varnishes and finishes, will support the work of conservators at the Conservation Analytical Laboratory, the Cooper-Hewitt National Museum of Design, and other Smithsonian units working on furniture conservation.

April

Program: Noted art dealer Leo Castelli, in a rare Washington appearance, enthralled a capacity Resident Associate audience during a conversation with the highly regarded museum curator Walter Hopps.

April

Performance: *Audience*, a satirical play by Czechoslovakia's president, Vaclav Havel, was performed for Resident Associates four months after its Prague premiere.

April

Film Distribution: Sale of "The Movie Palaces," a film produced by the Office of Telecommunications, began through the Museum Shops and to theater organizations.

April

Appointment: Stephen J. Pike was appointed assistant director for programs and marketing of the Smithsonian National Associate Program.

April

Publication Redesign: *Research Reports*, a newsletter produced by the Office of Public Affairs, was redesigned to accommodate information on the spring and fall appeals to Contributing Members, highlights from Research Expeditions sponsored by the Smithsonian National Associate Program, and a column on the research priorities of the Institution. The publication, which is now issued quarterly, has a circulation of 73,000.

April

Exhibition: Universal Press Syndicate sponsored the opening reception of "Oliphant's Presidents: Twenty-five Years of Caricature" at the National Portrait Gallery, attended by Pat Oliphant and his wife.

April

Appointment: Christraud M. Geary, a former Rockefeller Fellow in the Humanities at the National Museum of African Art, was named curator of that museum's Archives.

April

Publication: *To Govern a Changing Society: Constitutionalism and the Challenge of New Technology*, edited by Robert Peck and based on a symposium sponsored by the Office of Interdisciplinary Studies, was published by Smithsonian Institution Press.

April 2

Office Established: The Office of Environmental Awareness was established to increase public knowledge and awareness of environmental issues.

April 3

Exhibition: "Color, Light, Surface: Contemporary Fabrics" at the Cooper-Hewitt National Museum of Design featured fabrics manufactured in the United States, Europe, and Asia.

April 3

Grant: Mobil Oil Corporation made a \$50,000 grant to the National Portrait Gallery in support of the forthcoming exhibition "Camera Portraits," masterpieces from the photographic collections of the National Portrait Gallery in London.

April 6

Exhibition: "Albert Pinkham Ryder," the largest and most complete exhibition of the work of the nineteenth-century painter ever organized, opened at the National Museum of American Art.

April 11-14

Cultural Diversity: The Office of Public Affairs, the Office of Elementary and Secondary Education, and the Office of Quincentenary Programs cosponsored a booth and a full-page advertisement in the conference program booklet at the National Hispanic Journalists meeting in San Francisco. More than 800 news professionals from English

and Spanish newspapers, radio, and television attended. Six Smithsonian staff members participated.

April 15

Publication Redesign: The first issue of the redesigned Arthur M. Sackler Gallery *Calendar*, offering fuller information about exhibitions and public programs in a larger and clearer format, was published. The new calendar was made possible through a generous gift from Mrs. Else Sackler, who also continued her support of the museum's advertising program.

April 19

Seminar: The Office of the Assistant Secretary for Public Service sponsored a working seminar, titled "Cultural Equity and the Humanities," with the Federation of State Humanities Councils and various Smithsonian bureaus and offices.

April 21

Earth Day Event: In conjunction with Earth Day, the National Museum of Natural History presented a public briefing on the history of crises in the biosphere. The 11 museum scientists who spoke were affiliated with the museum's Evolution of Terrestrial Ecosystems Program, which is exploring the changes in plants and animals on land through their 400 million years of evolution.

April 21-22

Earth Day Events: The National Zoological Park sponsored special events in celebration of the 20th anniversary of the first Earth Day. Activities included "Elephant Can Stomp" (aluminum can recycling), "Tree Giveaway," and entertainment by Ironweed and "Billy B" Brennan.

April 24

Exhibition: "Flora Danica and the Heritage of Danish Porcelain," an exhibition surveying the forms, techniques, and decoration of Danish porcelain, opened at the Cooper-Hewitt National Museum of Design. Princess Benedikte of Denmark attended the opening reception.

April 25

Lecture: The Smithsonian Institution Libraries (SIL) presented "*Black Beauty: From Humane Tract to Children's Classic*," an illustrated talk by Ellen B. Wells, SIL special collections librarian. The program was a feature of "Night of a Thousand Stars," a National Library Week event of the American Library Association.

April 25

Trustees Elected: Edward R. Broida, a well-known collector of contemporary art, and Peggy C. Davis, a law professor and scholar at New York University, were elected to the board of trustees of the Hirshhorn Museum and Sculpture Garden.

April 26-September 3

Special Event: *Dinosaurs, Dinosaurs...A Mesozoic Musical*, a one-man show, was presented at the National Zoo in conjunction with the dinosaur displays at the National Museum of Natural History.

April 27

Exhibition: A new exhibition on modern carrier aviation opened in the National Air and Space Museum's Sea-Air Operations gallery. The exhibition uses charts, photographs, artifacts, and model aircraft to illustrate the history of carrier aviation, with emphasis on World War II operations in the Pacific Theater.

April 27

Symposium: A two-day international symposium, "New Perspectives on Chu Culture," organized by Thomas Lawton, senior research scholar at the Arthur M. Sackler Gallery and the Freer Gallery of Art, opened at the Sackler Gallery. Four scholars presented papers exploring developments in art historical knowledge based on recent archaeological discoveries in China. A concurrent exhibition, "The Art of the Chu," displayed choice examples from the collection of Paul Singer. The symposium was made possible through the generosity of Mrs. Arthur M. Sackler.

April 27

New Facility: The National Zoo formally opened its new Research Building. At the opening ceremonies, S. Dillon Ripley received the National Zoological Park Conservation Medal and Acalia and Tomas Blohm received the Zoo's Centennial Medal.

April 29-May 1

Conference: The National Zoological Park hosted the eastern regional conference of the American Association of Zoological Parks and Aquariums.

May

Course: Famed pianist and entertainer Victor Borge delighted an overflow audience with reminiscences about his life in Denmark as part of the Resident Associate Program course "Denmark in Perspective: Great Danes and Their Great Friends," cosponsored with the Embassy of Denmark.

May

Grant: The Office of Telecommunications received a commitment of \$90,000 in funding from the Dutch Environment Ministry for development of the "Earth Game" television project.

May

Award: The weekly "Radio Smithsonian" series produced by the Office of Telecommunications won the Silver Award from the Public Radio Conference for its special program "Sounds Like New York." This program subsequently won Silver Awards from the International Radio Festival of New York and the Corporation for Public Broadcasting.

May

Publication: Smithsonian Institution Press published its first bilingual book, *Puerto Rico Mio: Four Decades of Change*, by the well-known photographer Jack Delano.

May

Acquisition: The purchase of a wood protective figure by the Teke peoples of the Republic of the Congo for the National Museum of African Art was made possible through a grant from the James Smithson Society.

May

Video: The videocassette "Guide to the Smithsonian," produced by the Office of Telecommunications, went on sale in the Smithsonian Information Center.

May

Milestone: "Life in the Ancient Seas," a permanent exhibition hall that tells the story of sea life through eons of time, opened at the National Museum of Natural History. The new hall marks the completion of the 15-year project to modernize the museum's paleontological complex, a series of exhibition halls that includes the Dinosaur Hall.

May

Contract Awarded: The American International Distribution Corp. of Colchester, Vermont, was awarded the contract for the new fulfillment service for Smithsonian Books and the Smithsonian Collection of Recordings.

May 3

Event: Warren Furutani of the Los Angeles Board of Education delivered the keynote address opening the Asian/Pacific American Heritage Month Celebration. Charu Narasimhan performed a classical Indian dance and the Khmer Mohori Ensemble presented traditional Cambodian music.

May 9

Exhibition: "Information Age: People, Information & Technology" opened at the National Museum of American History. The 14,000-square-foot exhibition traces the evolution of information-processing and communications technologies from the 1830s to the present. In the use of sophisticated, state-of-the-art technology for the exhibition installation, "Information Age" is the most ambitious interactive show the Smithsonian has ever done and a revolutionary approach to alternative learning in museum exhibitions.

May 15

Meeting: His Excellency Abou Diouf, president of the Republic of Senegal, participated in meetings with Smithsonian officials arranged by the Office of International Relations. While at the Smithsonian, Diouf was given a briefing on the Festival of American Folklife's Senegal program.

May 16

Exhibition: "Yoruba: Nine Centuries of African Art and Thought," an exhibition of 100 Yoruba objects organized by the Center for African Art in New York, went on view at the National Museum of African Art until August 26.

May 17

Special Event: "ZooFari--A Celebration of the Rainforest," a gala evening event sponsored by the Friends of the National Zoo, attracted hundreds of participants. "ZooFari" raises funds for the Theodore H. Reed Animal Acquisition Fund, which supports the acquisition, exhibition, and propagation of rare and endangered species at the Zoo, as well as public education about these species.

May 17

Lecture: Former Federal Aviation Administrator Najeeb E. Halaby presented the annual Charles A. Lindbergh Lecture at the National Air and Space Museum. Halaby, an aviation executive and former chief executive officer of Pan American World Airways, presented his views on how commercial aviation could be made safer and more efficient.

May 20-25

Conference: The International Council for Archaeozoology Sixth International Conference was sponsored at the Smithsonian by the Archaeobiology Program and the Department of Anthropology, National Museum of Natural History. The conference was coordinated by the Office of Conference Services.

May 21-30

Festival: Five traditional performance groups from across the United States traveled to the Soviet Union under the auspices of the Office of Folklife Programs to participate in the Second International Folklore Festival, held in Kiev.

May 22

Acquisition: The National Portrait Gallery Commission approved the acquisition of G.P.A. Healy's portrait of John C. Calhoun.

May 24

Exhibition: Indian portraits by Charles Bird King were hung in the Smithsonian Institution Building.

May 27

Exhibition: The Arthur M. Sackler Gallery presented its first major exhibition of Japanese art since the museum opened to the public. *Yokohama: Prints from Nineteenth-Century Japan* was made possible by the Sackler Gallery's first corporate exhibition sponsor, Yamanouchi Pharmaceutical Co., Ltd., of Tokyo. Prints in the exhibition were loaned from the collection of William and Florence Leonhart of Washington, D.C., with the participation of the Daval Foundation.

June

Space Flight: The joint German-American-British ROSAT satellite was launched by the National Aeronautics and Space Administration from Cape Canaveral. Representing the largest x-ray telescope ever flown, ROSAT carries a High Resolution Imager built by the Smithsonian Astrophysical Observatory to produce focused images of cosmic x-ray sources. The first test observations in July produced images of a supernova remnant, a cluster of galaxies, a compact x-ray binary, and the Moon.

June

Award: *Symbolic Immortality*, by Sergei Kan, published by the Smithsonian Institution Press, received the 1990 American Book Award of the Before Columbus Foundation.

June

Grant: The Smithsonian Tropical Research Institute received a grant of \$250,000 from the Andrew Mellon Foundation to support its research program in paleoecology.

June

Award: The National Science Resources Center's guide to hands-on science teaching materials for elementary teachers, *Science for Children: Resources for Teachers*, received the American Library Association's Outstanding Academic Book award.

June

Research: The Smithsonian Astrophysical Observatory received a \$26.7 million contract from the National Aeronautics and Space Administration to construct a high-resolution camera for the Advanced X-ray Astrophysics Facility, now planned for launch late in this decade.

June

Publication: Viking/Penguin purchased paperback rights for two Smithsonian Institution Press books, *The Lawmen: United States Marshals and Their Deputies, 1789-1989*, by Frederick S. Calhoun, and the highly acclaimed *Women of Deh Koh: Lives in an Iranian Village*, by Erika Friedl.

June 1

Appointment: W. Richard West, Jr., was appointed founding director of the National Museum of the American Indian.

June 1

Exhibition: "Pre-Hispanic Foods of Mexico" opened in the International Center Conference Suite. The exhibition was cosponsored by the Office of Quincentenary Programs and the Mexican Cultural Institute, through the Embassy of Mexico. The Smithsonian's Office of International Relations provided staff support.

June 4-8

Seminar: Staff of the Conservation Analytical Laboratory taught a specialty seminar to six anthropology and archaeology students from Costa Rica, Guatemala, Honduras, El Salvador, and Argentina. The students were pursuing advanced degrees in the United States supported by the Fulbright Program and the Latin American Scholarship Program of American Universities.

June 8

Meeting: Coordinated by the Office of Elementary and Secondary Education, the Smithsonian Advisory Council on Education focused its annual meeting on the involvement of new audiences in the conceptualization, development, and implementation of exhibitions, programs, and materials.

June 8

Exhibition: The Cooper-Hewitt National Museum of Design's summer exhibition "The Doghouse" featured architects' and designers' whimsical visions of doghouses. The outdoor installation was designed to be accessible to sight-impaired visitors.

June 9

Symposium: At the Biennial Symposium of the Association of American Cultures, held in Oklahoma City, the Office of the Assistant Secretary for Public Service organized a session titled "The Smithsonian Institution's Multicultural Agenda for the 1990s."

June 11

Symposium: The Conservation Analytical Laboratory and the National Museum of American Art (NMAA) organized and held the symposium "The Medium of Ideas: Technical Studies in Nineteenth-Century American Painting" in connection with the Albert Pinkham Ryder exhibition at NMAA.

June 13

Exhibition: "The Five of Hearts: Henry Adams and His Washington Circle," a small exhibition recording the Washington circle of Mr. and Mrs. Henry Adams, Mr. and Mrs. John Hay, and Clarence King, opened at the National Portrait Gallery. The Honorable James Symington, great-grandson of John Hay, one of the "Hearts," attended.

June 18

Pilot Program: Smithsonian Opportunities for Learning (SOL) began an eight-week pilot session. Modeled on a national internship program also run by the Office of Elementary and Secondary Education, SOL is designed to meet the specific needs of local high school students, especially those who have recently immigrated to the United States.

June 19

Event: The Office of the Assistant Secretary for Public Service participated in the national banquet of the I Have a Dream Foundation at the National Museum of American History.

June 20

Exhibition: Demilitarized U.S. Pershing II and Soviet SS-20 missiles were installed in an exhibition at the National Air and Space Museum recognizing the Intermediate Nuclear Forces Treaty of 1987, which eliminated an entire class of weapons.

June 24-30

Domestic Study Tour: Associates of all ages traveled to the Colorado Rockies for the Smithsonian National Associate Program's first family study tour at the Nature Center. The lively program included hikes through fossil beds, wildlife excursions, and a visit to a 100-year-old working homestead farm.

June 24

Milestone: The collection of the Museum of the American Indian, Heye Foundation, was officially transferred to the Smithsonian Institution. The more than 1 million artifacts in the collection, which includes a library, photo archives, and other resource material, will be the centerpiece of the National Museum of the American Indian on the National Mall.

June 26

Significant Birth: The National Zoo celebrated the birth of a tiger cub produced by in vitro fertilization. Research scientists at the Zoo designed and implemented this particular procedure for tigers, which resulted in the birth of the first "test tube" tiger cub.

June 26-29

Training Program: The Office of Museum Programs held the first annual training congress, "Building Partnerships: Museums and Their Communities," a national interdisciplinary event for museum staff development.

June 27

Festival: The 24th annual Festival of American Folklife began, featuring programs on the folklife of the U.S. Virgin Islands; Senegal's cultures; and traditional forms of song, chant, movement, and the musics of struggle. Opening ceremony speakers included U.S. Virgin Islands Governor Alexander Farrelly; the ambassador of Senegal; the Senegal minister of culture and communications; and Cordell Reagon, founder of the Freedom Singers of the Student Nonviolent Coordinating Committee.

June 28

Exhibition: "From Parlor to Politics: Women and Reform in America, 1890-1925" opened at the National Museum of American History. The exhibition explores how

women of the Progressive Era led the fight against overcrowded cities, poverty, alcoholism, child labor, public health hazards, poor working conditions, and other emerging social problems.

June 30

Publication: The Office of Elementary and Secondary Education published *Resource Guide for Teachers*, a catalogue of all educational resources available from the Institution, as well as from the John F. Kennedy Center for the Performing Arts, Reading Is Fundamental, and the National Gallery of Art.

July

Course: The Natural Science Institute for Teachers of Minority Students, a three-week summer program organized by the Office of Education, National Museum of Natural History, and funded by the D.C. Public Schools, featured instruction on "reading" natural history objects for teachers of grades four through 12. Twenty-four teachers enrolled in the course, which took them to museums and research centers in the Washington, D.C., metropolitan area.

July

Publication: The Smithsonian Institution Libraries published an illustrated lecture based on an Isaac Newton manuscript in the Libraries' collections. *Alchemical Death and Resurrection: Alchemy in the Age of Newton*, by Professor B.J.T. Dobbs of Northwestern University, was originally presented as part of the lecture series, "Death and the Afterlife in Art and Literature," sponsored by the Washington Collegium for the Humanities, of which the Smithsonian Libraries is a member.

July

Workshops: The SI/Man and the Biosphere Program conducted its first professional training workshops in Brazil and Guatemala. The courses focused on the conservation of natural resources and the management of biological diversity.

July

Speech: Assistant Secretary for External Affairs Thomas Lovejoy spoke on environmental issues at the annual weekend retreat for Democratic members of the U.S. Senate.

July-August

Grant: The Shell Oil Company Foundation supported a film series, "African Folktales in Film," and a curatorial intern at the National Museum of African Art.

July-August

Presentation: As part of an ongoing photodocumentation project, JoAllyn Archambault, director of the National Museum of Natural History's American Indian Program, presented to the Comanche and Crow tribes photographs of the museum's entire collection of Comanche and Crow cultural objects and copies of the museum's historic photographs of the Comanche and Crow peoples. The presentation ceremonies were held in Walters, Oklahoma, and Crow Agency, Montana.

July 2-16

Institute: In the second annual Folklore Summer Institute for Community Scholars, sponsored by the Office of Folklife Programs, community-based scholars participated in an exchange of information with Smithsonian folklorists and other scholars in the field. Participants adopted a declaration that addresses issues concerning improved services to community folklore scholars and their constituents.

July 2-13

Program: The National Science Resources Center held its second Elementary Science Leadership Institute for teams of teachers, school administrators, and scientists from 19 of the largest school districts in the nation. The teams attended workshops and seminars to learn about the benefits of hands-on science learning for children and developed a plan of action to improve the elementary science programs in their school districts.

July 15

Exhibition: "Whose Art Is It, Anyway? The Arts in Public Places" opened at the Anacostia Museum. The exhibition explored the processes and issues surrounding the arts found in public places, including sculpture, murals, dance, song, and artistic clothing and hair styles.

July 18

Cultural Diversity: The Office of Public Affairs hosted a breakfast and briefing on Smithsonian Quincentenary Programs for the 20-member board of directors of the National Association of Hispanic Publications.

July 22-August 4

Expedition: A Smithsonian Research Expedition, "Archival Treasures of the National Air and Space Museum," was conducted in Washington, D.C. Participants worked behind the scenes with museum staff to improve the housing and documentation of a variety of materials, including aircraft technical manuals and drawings, scrapbooks, vertical files, photographs, and motion picture film.

July 26

Workshop: The Office of Interdisciplinary Studies held a workshop on space science education for 60 Washington, D.C., area teachers and curriculum specialists.

July 27

Publication: "United States Women in Aviation, 1940-1985," by Deborah G. Douglas, was published as number seven in the series *Smithsonian Studies in Air and Space*. Smithsonian Institution Press announced plans to reprint three earlier monographs on women in aviation as companion volumes for sale through its University Press division.

July 30-August 5

Special Event: A series of experimental public education activities conducted throughout the National Zoo launched a new program to give visitors "new eyes" for seeing the Zoo. The programs were part of Improving Exhibition Interpretation Superweek activities.

August

Appointment: Marc Pachter, former assistant director for history and public programs at the National Portrait Gallery, was appointed deputy assistant secretary for external affairs.

August

Lecture: Noted authors Ishmael Reed and John Wideman read from their works and lectured as part of a Resident Associate Program (RAP) series on African American male writers. Attending this series were local high school students who were part of RAP's "Project Excellence," designed to expose them to African American literature. The project was supported by the Hattie M. Strong Foundation and the Smithsonian Educational Outreach Program.

August

Research: Researchers at the Smithsonian Tropical Research Institute installed a construction crane in Panama City's Metropolitan Natural Park to study the canopy of the tropical rainforest. This was the first time a construction-type crane has been used to provide scientists access to study the forest canopy.

August

Publication: Smithsonian Books released *After Columbus: The Chronicle of the North American Indians*, by Herman J. Viola, in conjunction with the upcoming Columbus Quincentenary.

August

Expedition: National Museum of Natural History senior oceanographer Daniel J. Stanley, heading a multinational research team, conducted field work in Egypt that confirmed that the Nile Delta is undergoing substantial sinking--as much as one-fifth inch per year in the Port Said region near the Suez Canal. This sinkage is causing serious coastal erosion and invasion of salt water and is severely limiting agriculture.

August

Research: At the Conservation Analytical Laboratory, a partial paint layer was recovered from the codex lifted in the excavations at Joya de Ceren, El Salvador. The site, buried under six meters of ash deposited during a volcanic eruption, provides an unprecedented glimpse of village life around 600 A.D.

August

Exhibition: The newly acquired portrait of former President Ronald Reagan by Henry Casselli was installed in the Hall of Presidents at the National Portrait Gallery.

August

Recording Release: *The Music of Stephen C. Foster* launched the Smithsonian Library of American Music series, and *Chadwick: Yankee Composer* inaugurated the Smithsonian Studies of American Musicians series.

August

Cooperative Program: The SI/Man and the Biosphere Program was represented at the Ecology Congress held in Yokohama, Japan, and, as part of a team of experts on tropical forests, visited several tropical forest research sites in Southeast Asia to discuss a tropical forest cooperative international program.

August 1-5

Cultural Diversity: A full-page paid advertisement was published by the Office of Public Affairs in the brochure for the 15th annual National Association of Black Journalists conference, which was attended by approximately 1,500 media representatives. Two Smithsonian staff members participated in the conference.

August 26-31

Conference: Fifty-two experts from 10 countries attended the conference "Non-Imperial Politics in the Lands Visited by Christopher Columbus during His Four Voyages to the New World," held at the Smithsonian Tropical Research Institute (STRI). STRI

archaeologist Richard Cooke organized the conference, which was supported by the Social Science Research Council and several Smithsonian programs.

August 31

Milestone: The six members of the first class of the Conservation Analytical Laboratory's Furniture Conservation Training Program received certificates of graduation; four also received master's degrees through Antioch University.

September

Contribution: Glenn O. Tupper made a donation of \$1.09 million to construct a new wing for the library at the Smithsonian Tropical Research Institute and to acquire research equipment for plant physiology studies.

September

Publications: Smithsonian Institution Press published the first four titles in a new series, *Photographers at Work*, spotlighting the work and techniques of major contemporary photographers.

September

Anniversary Celebration: The Resident Associate Program kicked off its 25th anniversary celebration with 40 glittering events during the fall of 1990, including "Infinite Illusions," a nine-day computer graphics symposium; an evening with documentary filmmaker Ken Burns showing a segment of his public television series, *The Civil War*; Margaret Truman speaking on her latest book; and the 25th Anniversary Gala with Nancy Wilson, underwritten in part by Riggs National Bank.

September

Publication: The brochure "The Children's Room at the Smithsonian: Knowledge Begins in Wonder" tells the history of the south tower room, Smithsonian Institution Building. The room was restored to its 1901 appearance under the direction of the Office of Architectural History and Historic Preservation in 1987.

September

Grants: A Kress Foundation grant was awarded to the Conservation Analytical Laboratory to start a new midcareer conservation training program.

September

Publication: *Northwest Coast*, the ninth in the National Museum of Natural History's projected 20-volume encyclopedic *Handbook of North American Indians*, was published

by the Smithsonian Institution Press. The volume summarizes the environment, prehistory, languages, and environmental relations of the native peoples of coastal Oregon, Washington, British Columbia, and southeast Alaska.

September

Research: Analysis at the Conservation Analytical Laboratory of ceramic crucible fragments recovered from excavations of an ancient mine, Kestel, dating to the third millennium B.C. and located in south central Turkey confirmed that this mine probably was a source for the much-sought-after tin of the Bronze Age.

September

Grant: The Office of Telecommunications received a funding commitment from Kajima Corporation, Hitachi, Ltd., and American Family Life Assurance Company for production of a \$1.2 million film for American audiences on Japanese gardens.

September

New Project: The Office of the Assistant Secretary for External Affairs launched the Smithsonian's Rainforest Project with the Fidelity Fund for conservation and research debt-for-nature swaps.

September

Meeting: The U.S. Environmental Protection Agency and the Smithsonian held a roundtable meeting on environmental research.

September 4

Appointment: Bonita Perry was appointed as Smithsonian Institution Libraries' assistant director, research services, heading a division composed of 14 branch libraries.

September 4-17

Foreign Study Tour: National Air and Space Museum Senior Advisor Don Lopez and Air Vice Marshal Ron Dick (RAF, Ret.) accompanied 70 Associates to England for a Battle of Britain 50th anniversary tour. London's commemorative "flypast" and the Farnborough International Air Show were among the highlights of this special tour.

September 6-8

Symposium: "Seeds of Industry: Transformations of Indigenous Technology in the Americas" was the final in a series of three Quincentenary symposia sponsored by the Office of Folklife Programs. Held in Morelos, Mexico, under the auspices of the Centro de Investigación y Estudios Superiores en Antropología Social and the Instituto Nacional

Indigenista, presentations examined divergent local and European understandings of demographic, societal, and environmental resources in the Americas at the time of interhemispheric contact.

September 7

Event: The Office of the Assistant Secretary for Public Service cosponsored with the National Council of Negro Women the fifth annual Black Family Reunion Celebration. The theme of the event was "Catch the Family Spirit."

September 13

Lecture: The Smithsonian Institution Libraries presented a free public lecture, "Playful Readings: A History of Children's Movable Books" by Carol J. Barton. The illustrated lecture was part of the series "The World of the Child," sponsored by the Washington Collegium for the Humanities of which Smithsonian Libraries is a member.

September 13

Agreement: Ira Rubinoff, director of the Smithsonian Tropical Research Institute, and Abdiel Adames, rector of the University of Panama, signed a renewal agreement for scientific collaboration at the Earl S. Tupper Research and Conference Center.

September 15

Publicity Campaign: The Office of Public Affairs launched an extensive publicity campaign for the observance of Hispanic Heritage Month, including press releases, radio ads on two stations, advertisements in five local Spanish-language newspapers, and a taped calendar-of-events recording in Spanish at the Smithsonian Information Center.

September 15

Publication: The Office of Elementary and Secondary Education published *Image and Identity: Clothing and Adolescence in the Nineties*, a high school curriculum kit that introduces ways to look at clothing as social and cultural artifacts.

September 15

New Organization: The Smithsonian National Associate Program launched the Young Benefactors, a new membership organization, at a black-tie "Blast-Off Gala" reception and dance held at the National Air and Space Museum. Some 1,500 young professionals attended and became members of the Young Benefactors, whose purpose is to advance the Smithsonian's fund-raising goals, establish a foundation for future Smithsonian support, and increase public interest in, and awareness of, the Institution's aims.

September 17

Appointments: The appointments of the first 13 members of the National Council of the National Museum of Natural History were approved by the Smithsonian Institution Board of Regents. The council will eventually include 32 leading scientists and private citizens who will advise on matters of policy and help generate support for the museum.

September 18

Premiere: "Keepers of Eden," a one-hour production of the *Infinite Voyage* series on the state-of-the-art conservation work of zoos, was previewed at the National Zoo. A 20-minute segment of the program was devoted to such work at the Zoo. The program was aired over PBS stations nationwide on October 1.

September 21

Special Event: The James Smithson Society's annual dinner was held in conjunction with the fall meeting of the National Board of the Smithsonian Associates. Gay F. Wray, chairman of the National Board, announced the projects receiving 1990 society grants and awarded the society's Founder Medal to Sam DeVincent for his donation of American sheet music to the National Museum of American History.

September 24

International Outreach: The Office of Public Affairs and the New York Times Syndication Sales Corporation signed an agreement that provides for distribution of Smithsonian News Service feature stories, including color and black-and-white art, to newspapers, magazines, and other print media worldwide (excluding the United States). Syndication will be in English, with selected stories in Spanish.

September 25

Program: The National Science Resources Center (NSRC) entered into a working partnership with Carolina Biological Supply Company to disseminate to the nation's elementary schools the science teaching units for use in grades one through six being developed by the NSRC's Science and Technology for Children project.

September 26

Film Series: The Hirshhorn Museum and Sculpture Garden launched its 1989-90 series of independent films, art documentaries, and children's programs.

September 26

Lecture: Cyril Ramaphosa, general secretary of the National Union of Mineworkers in South Africa, spoke on his assessment of current developments in South Africa. His lecture concluded the Office of Folklife Programs lecture series "South Africa Today: Living in a Divided Society."

Appendix I

Members of the Smithsonian Councils, Boards, and Commissions, September 30, 1990

SMITHSONIAN INSTITUTION BOARD OF REGENTS

William H. Rehnquist, Chief Justice of the United States,
ex officio
J. Danforth Quayle, Vice President of the United States,
ex officio
Edwin J. (Jake) Garn, Senator from Utah
Daniel P. Moynihan, Senator from New York
James R. Sasser, Senator from Tennessee
Silvio O. Conte, Representative from Massachusetts
Norman Y. Mineta, Representative from California
Jamie L. Whitten, Representative from Mississippi
David C. Acheson, Citizen of the District of Columbia
Anne L. Armstrong, Citizen of Texas
William G. Bowen, Citizen of New Jersey
Jeannine Smith Clark, Citizen of the District of Columbia
A. Leon Higginbotham, Jr., Citizen of Pennsylvania
Samuel C. Johnson, Citizen of Wisconsin
Barnabas McHenry, Citizen of New York
Homer A. Neal, Citizen of Michigan
R. James Woolsey, Citizen of Maryland

SMITHSONIAN COUNCIL

Neil Harris	Miguel Leon-Portilla
Chair	Shirley M. Malcom
Mary Frances Berry	Robert M. May
Luis R. Cancel	Shirley M. McBay
Johnnetta B. Cole	Cheryl McClenney-Brooker
Michael A. Dorris	Matthew S. Meselson
Paul Fussell	Sidney W. Mintz
Robert Garfias	Jaime E. Rodriguez
David R. Gergen	Maxine F. Singer
Dorothy B. Gilliam	John Walsh
James W. Head, III	Katherine J. Watson
John P. Holdren	Thomas G. Wicker

Peggy Cooper Cafritz (Chair)
Margaret Batchelor White (Co-Chair)
JoAllyn Archambault
James Carter
Jeannine Smith Clark
Fritz Daguiard
Antonio Guernica
Suzan Harjo
Esther G. Kee
Virginia MacLaury
Mike Masaoka
Elizabeth Fagg Olds
Mary Marvin Breckinridge Patterson
Ricardo M. Urbina
Patricia Zell

JOINT COMMITTEE OF THE SPONSORING INSTITUTIONS OF THE PAPERS
OF JOSEPH HENRY

Robert McC. Adams
Whitfield J. Bell, Jr.
Charles C. Gillispie

Robert S. Hoffmann
David J. E. Saumweber
Frederick Seitz, Chair

ARCHIVES OF AMERICAN ART BOARD OF TRUSTEES

Mrs. Otto L. Spaeth, Chairman Emeritus
Mr. Richard J. Schwartz, President
Mrs. Keith S. Wellin, Vice President
Mrs. Robert F. Shapiro, Vice President
Mr. Max N. Berry, Vice President
Mrs. Abbott K. Schlain, Treasurer
Mrs. Dana M. Raymond, Secretary
Mrs. Francis de Marneffe, Honorary Officer
Miss Julienne M. Michel, Honorary Officer

Mr. Charles Blitzer
Mr. Eli Broad
Mr. Gerald Buck
Mr. Ivan Chermayeff
Ms. Gabriella de Ferrari
Mr. Gilbert S. Edelson
Mrs. Ahmet M. Ertegun
Mrs. Arthur A. Feder
Mr. Miles Q. Fiterman
Mrs. Daniel Fraad
Mrs. Eugenio Garza-Laguerra
Mr. Hugh Halff, Jr.
Mr. Benjamin D. Holloway
Mr. John K. Howat

Founding Trustees

Mr. Lawrence A. Fleischman
Mrs. Edsel B. Ford
Mr. Edgar P. Richardson

Ex Officio

Mr. Robert McCormick Adams
Mr. Tom L. Freudenheim
Mr. Marc J. Pachter

Dr. Helen Jessup
Mrs. Dwight M. Kendall
Mr. Gilbert H. Kinney
Mr. Alan D. Levy
Mr. Meredith J. Long
Mr. Richard Manney
Mr. Richard A. Manoogian
Mrs. Meyer Potamkin
Mrs. Richard Roob
Mrs. John N. Rosekrans, Jr.
Mr. Alan E. Schwartz
Mr. A. Alfred Taubman
Mr. John Wilmerding
Mr. R. Frederick Woolworth

Honorary Trustees

Dr. Irving F. Burton
Mr. Howard W. Lipman
Mr. Russell Lynes
Mrs. William L. Richards

ARCHIVES OF AMERICAN ART ADVISORY COMMITTEES

Southeast Regional Center

Marc J. Pachter, Chair
Edmund Berkeley
Max Berry
Elizabeth Broun
Lorraine Brown
Paul Chestnut
Nicolai Cikovsky
Alan Fern

Lois Fink
William Homer
Charles F. Hummel
Helen Jessup
Bernard Mergen
Rick Powell
John Vlach
Judith Zilczer

New York Regional Center

Milton Brown, Chair
William C. Agee
Thomas N. Armstrong
Anne d'Harnoncourt
John Dobkin
Linda S. Ferber
William Gerdts
Eugene Goossen
John Howat
James Humphry III

Abram Lerner
Russell Lynes
Porter McCray
Barbara Novak
Clive Phillipot
Jules D. Prown
William B. Walker
H. Barbara Weinberg
John Wilmerding
William E. Woolfenden

New England Regional Center

Harley P. Holden, Chair
Winslow Ames
Georgia B. Barnhill
David S. Brooke
Theresa Cederholm
Anne Farnam
Charles Ferguson
Wolfgang Freitag
Edmund B. Gaither
Hugh Gourley
Elton W. Hall
Patricia Hills
Sinclair Hitchings
John Kirk
Elizabeth M. Kornhauser

William Lipke
Laura C. Luckey
Paul Master-Karnik
Eva Moseley
James O'Gorman
James M. O'Toole
Elliot Offner
Ronald Onorato
Stephen Riley
Daniel Rosenfeld
David Ross
Theodore E. Stebbins, Jr.
Susan Strickler
Michael Westworth
Margret Craver Withers

West Coast Regional Center

Whitney Chadwick, Chair
Gerald Bolas
Herschel Chipp
Wanda Corn
John Dillenberger
Charles Eldredge
Albert Elsen
Harvey Jones
John Lane

Connie Lewallen
Harry S. Parker III
Maira Roth
Peter Selz
Marc Simpson
Patterson Sims
Donald L. Stover
Ian McKibbin White

Southern California Regional Center

Henry Hopkins, Chair
Ruth Bowman
Charles Desmarais
Bram Dijkstra
Beatrice Farwell
Noriko Fujinami
Constance Glenn
Josine Ianco-Starrels
Christopher Knight
Richard Koshalek

Lizzetta LeFalle-Collins
Amy Meyers
Marguerita Nieto
Earl A. Powell III
Michael Quick
Richard Candida Smith
Maurice Tuchman
Richard V. West
Cecile Whiting

Chicago Documentation Project

Neil Harris, Chair
Dennis Adrian
Don Baum
Jack Brown, ex officio
Courtney Donnell
Richard Gray
Diana Haskell
Judith Kirshner

Katharine Lee
Archibald Motley
Franz Schulze
David Sokol
James Wells
Wim de Wit
John Zukowsky

ARTHUR M. SACKLER GALLERY

Visiting Committee

Robert McC. Adams, Ex Officio
Thomas L. Freudenheim, Ex Officio
Robert S. Hoffmann, Ex Officio
Thomas E. Lovejoy, Ex Officio
Dr. Charles Blitzer, Chair
Mrs. Cynthia Helms
Mr. Porter A. McCray
Ambassador George McGhee
Mr. Henry Millon

The Honorable Norman Y. Mineta
Mrs. Cynthia Polsky
Professor Edith Porada
Mrs. Arthur M. Sackler
H.H. Prince Sadruddin Aga Khan
Professor Yoshiaki Shimizu
Professor Seymour Slive
Mr. Michael Sonnenreich

COOPER-HEWITT MUSEUM

Advisory Council

Mr. Donald Bruckmann, Chair
Mrs. Marietta Tree, Vice Chair
Mrs. Karen Johnson Boyd
Mrs. Joan K. Davidson
Mrs. Joanne du Pont
Mr. Harmon H. Goldstone
Mr. August Heckscher
Mr. Kenneth Miller
Mr. Arthur Ross
Mr. Robert Sarnoff

Ex Officio

Mr. Robert McC. Adams
Mr. Tom Freudenheim

FREER GALLERY OF ART

Visiting Committee

Robert McC. Adams, Ex Officio
Thomas L. Freudenheim, Ex Officio
Robert S. Hoffmann, Ex Officio
Thomas E. Lovejoy, Ex Officio
Mrs. Jackson Burke, Chair
The Honorable Norman Y. Mineta,
Vice Chair
Mr. Willard G. Clark
Professor Marvin Eisenberg
Dr. Robert S. Feinberg
Mr. John G. Ford

Mrs. Katharine Graham
Mr. Joseph E. Hotung
Mrs. Gilbert H. Kinney
Professor Sherman E. Lee
Mr. Porter McCray
Professor Frederick W. Mote
Mrs. D. Patrick Moynihan
Professor Martin J. Powers
Professor John M. Rosenfield
Professor Priscilla Soucek

HIRSHHORN MUSEUM AND SCULPTURE GARDEN BOARD OF TRUSTEES

Sydney Lewis, Chairman
Jerome L. Greene, Vice Chairman
Edward R. Broida
Robert T. Buck
Peggy C. Davis
Agnes Gund
Robert Lehrman
Robert Rosenblum
Leonard C. Yaseen (died October 8, 1989)
Robert McC. Adams, Ex Officio
William H. Rehnquist, Ex Officio

NATIONAL AIR AND SPACE MUSEUM ADVISORY BOARD

Robert McC. Adams, Chairman	Samuel W. Keller, NASA
Lt/Gen. August M. Cianciolo, USA	Jacqueline Ponder
V/Adm. Martin H. Daniel, USCG	Peter F. Schabarum
V/Adm. Richard F. Dunleavy, USN	Bernard E. Smith, Jr.
Barry L. Harris, FAA	Lt/Gen. Duane A. Wills, USMC

RESEARCH ADVISORY COMMITTEE

Lew Allen	Otto Mayr
Henry Bauer	John Morrow
Herbert Friedman	Alex Roland
Noel Gayler	Helen W. Samuels
James R. Hansen	Joan Warnow

COLLECTIONS MANAGEMENT ADVISORY COMMITTEE

Don Cumberland	Helen W. Samuels
Richard Kohn	Alfred J. Shortt
Jack Hilliard	Marie C. Malaro
Ed. McKellar	Joan Warnow
Dennis Parks	

PUBLIC PROGRAMMING ADVISORY COMMITTEE

Thomas Hoving, Chairman	Harold K. Skramstad, Jr.
Hans O. Andersen	Michael Spock
Benjamin O. Davis	Sondra Gayle Stein
Linda M. Johnson	Marie Tibor
Louis R. Purnell	Mitchell Waldrop

NATIONAL MUSEUM OF AFRICAN ART COMMISSION

Robert H. Nooter, Chairman
Frances Humphrey Howard,
Vice Chairman
Charles B. Benenson
John Conyers, Jr.
David C. Driskell
John A. Friede
James L. Hudson
Helen Kuhn
Brian S. Leyden

Michael L. Lomax
Robin B. Martin
Frank E. Moss
Frieda Rosenthal
Donald M. Stewart
Robert Farris Thompson
Walter E. Washington
Robert McC. Adams, ex officio
Tom L. Freudenheim, ex. officio

NATIONAL MUSEUM OF AMERICAN ART COMMISSION

Mr. David S. Purvis, Chairman
Mr. Wilbur L. Ross, Jr., Vice Chairman

Mr. Ronald D. Abramson
Mr. Robert McC. Adams, ex officio
Mr. Norman Bernstein
Mr. Thomas S. Buechner
Ms. Mary Schmidt Campbell
Mr. Wendell K. Castle
Ms. Wanda M. Corn
Mr. James T. Demetrion, ex officio
Mr. Barney A. Ebsworth
Mrs. Rita Fraad
Mrs. Patricia Frost
Mrs. Johnson Garrett
Mr. August Heckscher
Mr. R. Crosby Kemper

Mr. Myron Kunin
Mr. Jacob Lawrence
Mr. Melvin Lenkin
Mr. Jacques E. Lennon
Mr. Owen M. Lopez
Mr. Charles Parkhurst
Mr. Richard J. Schwartz

Members Emeriti

Mr. Walker Hancock
Mr. Charles H. Sawyer

NATIONAL COUNCIL OF THE NATIONAL MUSEUM OF NATURAL HISTORY

Secretary Robert McC. Adams, ex officio
Frank H. Talbot, ex officio

Juanita P. Baranco
Paul R. Ehrlich
Henry Loomis
Robert H. Malott
Jeffery W. Meyer
Homer A. Neal
David R. Pilbeam
S. Dillon Ripley

Nicholas M. Salgo
James W. Valentine
Warren Herbert Wagner, Jr.
David B. Wake
Milton H. Ward
Ronald H. Winston
E-An Zen

NATIONAL PORTRAIT GALLERY COMMISSION

Jeannine Smith Clark (Chairperson)

Michael Collins

Thomas Mellon Evans

Stephen Jay Gould

Marta Istomin

W. John Kenney

David Levering Lewis

R. W. B. Lewis

Robert L. McNeil, Jr.

Robert Morgan

Barbara Novak

Frank Stanton

J. Carter Brown, Director, National Gallery of Art, ex officio

William H. Rehnquist, Chief Justice of the United States, ex officio

Robert McC. Adams, Secretary, Smithsonian Institution, ex officio

SMITHSONIAN INTERNSHIP COUNCIL

Dorothy Blaska, Co-Chairperson

Harry Jackson, Co-Chairperson

Vicki Avera

Myra Banks

Betty Belanus

Arthur Breton

Claudine Brown

Linda Chick

Pat Chieffo

Diane Cook-Lee

Ginny Cornett

William Cox

Zed David

Georgina De Alba

Betty Beuck Derbyshire

Mary Dyer

Farar Elliot

Zora Felton

Cynthia Field

Tom Freudenheim

Mary Gooden

Pam Henson

Ruth Hill

Jo Hinkel

Judith Houston

Veronika Jenke

Eileen Jones

Peter Kibbee

Julia Langdon

Betty Lathern

Ted Lawson

Hilda Lee

Eleanor McMillan

John Meehan

Carolyn Mills

Susan Mond

Bruce Morrison

Lauranne Nash

Lucia Pierce

Alan Postlewaite

Argelis Roman

John Rumm

Barbara Russell

Bernadette Schadewald

Magda Schremp

Theodore Taranovski

Bill Tompkins

Laurie Trippett

Wilcomb Washburn

Esther Washington

NATIONAL SCIENCE RESOURCES CENTER ADVISORY BOARD

Bruce M. Alberts
Albert Baez
DeAnna Banks Beane
Ann Bay
F. Peter Boer
Martha A. Darling
Hubert Dyasi
James Ebert
Douglas E. Evelyn
Robert C. Forney
Charles Hardy
Martin Harwit
Robert Hazen
Robert Hoffman
Ann Kahn
Manert Kennedy

Sarah Lindsey
Thomas E. Lovejoy
Phyllis Marcuccio
Lynn Margulis
William McCune
Philip Morrison
Phylis Morrison
Jerome Pine
Wayne Ransom
Peter Raven
David Sheetz
Lynn Strieb
Melvin Webb
Karen Worth
James Early, ex officio
Philip Smith, ex officio

SMITHSONIAN ADVISORY COUNCIL ON EDUCATION

Claudine Brown

Assistant Director, Government
and Community Relations,
Brooklyn Museum

Peggy Cole

Director, Division of Museum
Programs, New York Hall of
Science

Anna Cross

Independent Consultant
on Youth and Museums

Frances Haley

Executive Director, National
Council for the Social Studies
Chair, Literary and Media
Arts, Duke Ellington School of
the Arts

Carolyn Howard

Yolanda M. Lopez
Eliot Wigginton

Visual Artist and Art Educator
Director, Foxfire

FOLKLIFE ADVISORY COUNCIL

Richard Bauman, Chairman
Roger Abrahams
Henry Glassie
Rayna Green
John Langston Gwaltney

Adrienne Kaeppler
Ivan Karp
Bernice Johnson Reagon
John Tchen

SMITHSONIAN/FOLKWAYS ADVISORY BOARD

Michael Asch
Marilyn Averett
Ossie Davis
Mickey Hart
Pete Seeger

OFFICERS

Mrs. Bruce K. MacLaury, Chairman
Mrs. Richard L. Thompson, Vice-Chairman
Mrs. Lawrence Bruce Olds, Secretary
Mrs. William T. Hamilton, Jr., Treasurer

ACTIVE MEMBERS

Mrs. David C. Acheson	Mrs. Thomas McCance, Jr.
Mrs. James M. Beggs	Mrs. David H. McKillop
Mrs. George Bush	Mrs. James K. Mitchell
Mrs. H. Hollister Cantus	Mrs. Donald Notman
Mrs. Doniphan Carter	Mrs. Louise Owen
Mrs. Lloyd E. Clayton	Mrs. James R. Patton, Jr.
Mrs. Thomas B. Cookerly	Mrs. Horace White Peters
Mrs. William Gruman Cox	Mrs. John Pflieger
Mrs. Thomas Edward Crocker	Mrs. Charles L. Poor
Mrs. Fritz Daguiillard	Mrs. C. Michael Price
Mrs. J. Edward Day	Mrs. S. Dillon Ripley
Mrs. Philip S. Dickson	Mrs. Robert E. Rogers
Mrs. Avery Faulkner	Mrs. William C. Rountree
Mrs. Bernard Fensterwald	Mrs. Peter Talbot Russell
Mrs. Rockwood H. Foster	Mrs. Leonard Silverstein
Mrs. Orville L. Freeman	Mrs. Henry P. Smith, III
Mrs. William F. Gorog	Mrs. Michael P.W. Stone
Mrs. Karl G. Harr, Jr.	Mrs. Mark Sullivan, III
Mrs. Henry L. Heymann	Harriet H. Sweeney
Mrs. Vernon Wilson Holleman	M. Suzette Talbot
Mrs. Ronald J. Ivey	Mrs. Robert D. van Roijen
Mrs. Donald W. Jeffries	Mrs. Robert Waggaman
Mrs. Enid T. Johnson	Mrs. Robert L. Walsh, Jr.
Mrs. Godfrey W. Kauffmann	Mrs. Edmund Wellington, Jr.
Mrs. Clinton W. Kelly, III	Mrs. Richard T. West
Mrs. William H. Kent	Mrs. Edwin M. Wheeler
Mrs. Monroe Leigh	Mrs. Byron R. White
Mrs. Keith M. Lindgren	Mrs. Robert S. Wilkinson
Mrs. V. Cretella Mars	Mrs. Thomas B. Wilner
Mrs. Arthur K. Mason	

NATIONAL BOARD OF THE SMITHSONIAN ASSOCIATES

Mrs. Gay F. Wray, Chairman
Mr. Philip F. Anschutz
Mrs. Robert M. Bass
Mr. George B. Bingham, Jr.
Mr. W. J. Bowen
Mr. Charles L. Brown
Mr. Dan Burns
Mr. Fletcher Byrom
Mrs. Cummins Catherwood, Jr.
Mr. Ivan Chermayeff
Mr. Jeffrey A. Cole
Mr. Thomas G. Cousins
Mrs. George C. Dillon
Mr. Peter E. Haas
Mr. John M. Harbert III
Mr. Gerald D. Hines
Mr. Frank W. Hoch
Mr. S. Charles Kemp
Mr. Thomas M. Keresev
Mr. Robert V. Lindsay

Mrs. Bruce K. MacLaury
Mr. Alexander K. McLanahan
Mr. Antony Merck
Mrs. Anne Murray Morgan
Mr. John W. Morrison
Dr. George E. Mueller
Mr. Jack S. Parker
Mr. Thomas J. Pritzker
Mr. Alvin N. Puryear
Mrs. Arthur M. Sackler
Mr. Leveo V. Sanchez
Mr. Lloyd G. Schermer
Mr. Charles W. Schmidt
Dr. Ivan Selin
Mrs. E. Maynard Smith
Mr. A. Alfred Taubman
Mrs. James M. Walton
Hon. John C. Whitehead
Mr. T. Evans Wyckoff

Honorary Members

Mr. William S. Anderson
Mr. Richard P. Cooley
Mr. Joseph F. Cullman III
Mr. Charles D. Dickey, Jr.
Hon. Leonard K. Firestone
Mr. Alfred C. Glassell, Jr.
Mr. W. L. Hadley Griffin
Hon. William A. Hewitt

Mr. James M. Kemper, Jr.
Mr. Seynour H. Knox III
Mr. Lewis A. Lapham
Hon. George C. McGhee
Justice Sandra D. O'Connor
Mr. S. Dillon Ripley
Mr. Francis C. Rooney, Jr.
Hon. Thomas J. Watson, Jr.

THE SMITHSONIAN INSTITUTION WOMEN'S COUNCIL

Janice Kaplan
Chair
Ellen V. Sprouls
Vice Chair
Linda Benjamin
Secretary
Nancy J. Fuller
Treasurer
Ann Bissell
Historian
Kathleen Baxter
Liz Marie Bettis

Dwight Bowman
Kathleen Fleming
Jacqueline Hicks Grazette
Ann Kaupp
Josephine K. Lensler
La'Vonda Mosley
Lyssette J. Rivera
Shoshana Rosenthal
Katherine Sprague
Miriam Weissman
Sara Yorke

THE JOHN F. KENNEDY CENTER FOR THE PERFORMING ARTS

BOARD OF TRUSTEES

HONORARY CHAIRMEN

Mrs. George Bush	Mrs. Richard M. Nixon
Mrs. Ronald Reagan	Mrs. Lyndon B. Johnson
Mrs. Jimmy Carter	Mrs. Aristotle Onassis
Mrs. Gerald R. Ford	

OFFICERS

James D. Wolfensohn, Chairman	Charlotte Woolard,
Senator James A. McClure,	Assistant Secretary
Vice Chairman	King F. Lowe, Treasurer
Leonard L. Silverstein,	Harry C. McPherson, Jr.,
Vice Chairman	General Counsel
Henry Strong, Vice Chairman	William Becker,
Jean Kennedy Smith,	Associate Counsel
Secretary	

MEMBERS APPOINTED BY THE PRESIDENT OF THE UNITED STATES

Philip F. Anschutz	Mrs. J. Willard Marriott
Mrs. Bennett Archambault	Mrs. Abraham A. Ribicoff
Mrs. Howard H. Baker, Jr.	Joy A. Silverman
Mrs. William Cafritz	Leonard L. Silverstein
Ralph P. Davidson	Jean Kennedy Smith
Kenneth Duberstein	Roger B. Smith
James H. Evans	Dennis Stanfill
Mrs. Max M. Fisher	Roger L. Stevens
Robert Fryer	Charles Z. Wick
Mrs. Joseph B. Gildenhorn	James D. Wolfensohn
Mrs. William Lee Hanley, Jr.	
Dina Merrill Hartley	
Helen Joan Hunt	
Caroline Rose Hunt	
Mrs. Earle M. Jorgensen	
Donald M. Koll	
Melvin R. Laird	

MEMBERS EX OFFICIO DESIGNATED BY ACT OF CONGRESS

Louis Sullivan, Secretary	Representative Sidney R. Yates
of Health and Human Services	Marion S. Barry, Mayor,
Lauro F. Cavazos, Secretary	District of Columbia
of Education	Robert McC. Adams, Secretary,
Bruce Gelb, Director,	Smithsonian Institution
U.S. Information Agency	James H. Billington,
Senator Edward M. Kennedy	Librarian of Congress
Senator James A. McClure	J. Carter Brown, Chairman,
Senator George J. Mitchell	Commission of Fine Arts

Representative Joseph M. McDade
Representative Charles Wilson
Senator George J. Mitchell

James M. Ridenour, Director,
National Park Service
Paul Woodard, Director, D.C.
Department of Recreation

FOUNDING CHAIRMAN

Roger L. Stevens

HONORARY TRUSTEES

Mrs. Albert Lasker
Ralph E. Becker
Mrs. Jouett Shouse

Mrs. J. Clifford Folger
J. William Fulbright

NATIONAL GALLERY OF ART BOARD OF TRUSTEES

General Trustees

Franklin D. Murphy, Chairman
John R. Stevenson
Ruth Carter Stevenson
Robert H. Smith
Alexander M. Laughlin

Trustees Ex Officio

William H. Rehnquist, Chief Justice of the United States
James A. Baker III, Secretary of State
Nicholas F. Brady, Secretary of the Treasury
Robert McCormick Adams, Secretary, Smithsonian
Institution

Honorary Trustee

Paul Mellon

READING IS FUNDAMENTAL, INC.
BOARD OF DIRECTORS

Chairman of the Board
President
Vice President
Secretary
Treasurer

Mrs. Elliot Richardson
Mrs. Ruth P. Graves
Mr. Edward A. Fox
Mr. Samuel B. Ethridge
Mrs. Jean Head Sisco

Members

Ms. Loretta Barrett
Mr. Leo Beebe
Mr. Daniel Burke
Mr. James C. Curvey
Lloyd Derrickson, Esq.
Mr. Robert S. Diamond
Mrs. Edward D. Eddy
Mr. Charles F. Harris
Mr. Steven Heyer

Mrs. Ruth Holmberg
Mr. John T. Leatham
Ms. Ann R. Leven
Mrs. Kathryn W. Lumley
Dr. Floretta McKenzie
Mr. Edward J. Meade, Jr.
Mrs. Charles S. Robb
Mr. Arthur White

Advisory Council

Honorary Chairman:
Mrs. George Bush
Mr. Robert McC Adams
Mr. Arthur R. Ashe, Jr.
Mrs. Gayle Perkins Atkins
Mrs. Evan Bayh
Mrs. Daniel Boorstin
Jack E. Brown, Esq.
Mr. Jimmy Dean
Mr. Robert G. Diforio
Ms. Barbara J. Easterling
Mr. Edward E. Elson
Mr. Julian T. Euell
Mr. Walter A. Haas, Jr.
Mr. Andrew Heiskell

Mr. Harry Hoffman
Mr. Lee Iacocca
Mr. W. Thomas Johnson
Dr. Elizabeth Karnes
Ms. Natalie Lang
Mr. Vincent MacDonnell
Mr. Robert S. McNamara
Mr. Edward Morrow
Dr. Peter P. Muirhead
Mr. Steven S Reinemund
Eugene F. Rowan, Esq.
Mrs. Potter Stewart
Mr. Alberto Vitale
Mr. Donald Wilson
Ms. Oprah Winfrey

Founder

Mrs. Robert S. McNamara

Appendix 2

Visitors to Smithsonian Institution Museums in Fiscal Year 1990

Month	Smithsonian Institution Building	Arts and Industries Building	Natural History Building	Air and Space Museum	American Art and Portrait Gallery	American Indian Museum	Renwick Gallery	Total
1989								
Oct	0	95,445	348,244	574,839	30,989	0	55,878	1,105,395
Nov	86,294	69,401	372,573	451,583	30,644	0	51,550	1,062,045
Dec	65,120	55,377	244,838	282,811	26,646	0	33,056	707,848
1990								
Jan	59,735	46,462	225,736	261,079	31,210	0	34,922	659,144
Feb	69,888	55,244	323,393	340,260	28,824	0	39,812	857,421
Mar	123,738	81,360	496,016	578,406	33,180	0	22,617	1,335,317
Apr	199,837	105,634	858,524	1,010,305	146,338	0	14,312	2,334,950
May	169,225	94,318	778,230	890,180	45,095	0	14,069	1,991,117
Jun	185,939	98,504	693,138	794,077	39,386	0	12,394	1,823,438
Jul	228,503	124,646	802,762	959,401	38,613	2,990	13,500	2,170,415
Aug	199,403	102,229	718,628	916,882	34,254	3,134	13,704	1,988,234
Sep	119,669	65,542	300,871	482,578	30,544	1,870	10,035	1,011,109
Total:	1,507,351	994,162	6,162,953	7,542,401	515,723	7,994	315,849	17,046,433

Month	Anacostia Neighborhood Museum	Cooper- Hewitt Museum	American History Museum	S. Dillon Ripley Center	Sackler Gallery	Hirshhorn Museum	African Art Museum	Totals
1989								
Oct	2,844	17,247	368,781	35,541	54,378	89,445	29,932	598,168
Nov	2,888	26,316	360,322	29,719	32,395	78,755	29,021	559,416
Dec	1,490	24,737	248,093	17,560	27,070	42,575	22,955	384,480
1990								
Jan	2,320	22,540	199,724	24,413	27,009	49,833	25,722	351,561
Feb	6,296	18,994	251,520	21,761	26,852	50,868	31,295	407,586
Mar	4,063	12,754	456,095	12,720	33,997	87,412	41,991	649,032
Apr	4,365	7,121	706,438	17,422	37,122	109,108	46,666	928,242
May	3,847	10,866	683,785	18,544	35,196	89,111	44,215	885,564
Jun	1,877	18,348	665,522	22,201	32,248	89,374	41,747	871,317
Jul	6,871	14,626	786,691	21,773	35,332	99,407	47,562	1,012,262
Aug	4,865	12,228	658,404	17,362	34,961	87,236	43,225	858,281
Sep	1,693	11,235	319,014	12,892	29,353	63,936	27,528	465,651
Total:	43,419	197,012	5,704,389	251,908	405,913	937,060	431,859	7,971,560
GRAND TOTAL								25,017,993

NOTE: Totals for each museum reflect the number of individual visitors to that museum. Since many visitors include more than one museum on their itinerary, or go to various museums on several consecutive days, they are counted several times. The grand total, therefore, represents the aggregate of museum visitor counts, and is higher than the actual number of individual visitors to the Smithsonian Institution. The Freer Gallery of Art was closed during this reporting period.

Appendix 3

Academic, Researching Training, and Internship Appointments in Fiscal Year 1990

The first section of this Appendix lists recipients of fellowships and other appointments awarded to scholars and advanced students under the auspices of the Office of Fellowships and Grants. Students and museum professionals who held internships or participated in special projects administered by the Office of Museum Programs are listed in the second section.

ACADEMIC AND RESEARCH TRAINING APPOINTMENTS

The Smithsonian offers, through the Office of Fellowships and Grants, research and study appointments to visiting scientists, scholars, and students. The appointees are provided access to the Institution's facilities, staff expertise, and reference resources. The persons listed in this Appendix assumed their appointments between October 1, 1989, and September 30, 1990, and have been in residence for three months or longer. Each visitor is designated as a Predoctoral or Postdoctoral Fellow, a Visiting Scientist or Scholar, or as a participant in another special program. Also noted are the institution where each visitor received, or expects to receive, a degree or the home university or institution; a brief description of the project undertaken at the Smithsonian; the name of the Smithsonian advisor; and dates of residency.

RESEARCH

JOSEPH HENRY PAPERS

Stuart McCook, Graduate Student Fellow, Princeton University. "The Life Course of Nations: Comparative Development of National Scientific Communities," with Marc Rothenberg, from June 1 to August 10, 1990.

NATIONAL ZOOLOGICAL PARK

Perry S. Barboza, Postdoctoral Fellow, University of New England, Australia. "Protein Metabolism in Lactating Grey and Harbor Seals," with Olav Oftedal, from January 1 to December 31, 1990.

Wolfgang Dittus, Research Development Fellow, University of Maryland. "Primate Social Behavior in Relation to Long-Term Reproductive Success, Demography, and Genetic Structure," with Devra Kleiman, from December 31, 1989 to January 1, 1992.

Eduardo Duque, Exchange Student, University of California, Davis. "Animal Behavior," with Rudy Rudran, from September 1, 1990 to June 30, 1991.

John M. Francis, Visiting Scientist, University of California, Santa Cruz. "Maternal Feeding Behavior and Lactation Strategy in the Juan Fernandez Fur Seal, Arctocephalus philippii," with Daryl Boness, from April 1, 1990 to March 31, 1991.

Alan Mercure, Visiting Student, University of Minnesota. "Molecular Genetic Studies of the Endangered San Joaquin Kit Fox and its Kin," with Katherine Ralls, from April 1, 1990 to March 31, 1991.

- Sriyanie Miththapala, Predoctoral Fellow, University of Florida. "Genetic Variation in Sri Lankan Leopards," with John Seidensticker, from January 1 to December 31, 1990.
- Lisa G. Rapaport, Graduate Student Fellow, University of New Mexico. "Golden Lion Tamarin Behavior in Two Zoo Habitats: Does the Free-Roaming Environment Differentially Affect Reaction to Novelty and Development of Foraging Skills?", with Benjamin Beck, from June 4 to August 10, 1990.
- Alfred L. Rosenberger, Research Development Fellow, City University of New York. "The Biology of Locomotor Behavior in Golden Lion Tamarins," with Devra Kleiman, from August 1, 1990 to July 31, 1992.
- Lisa G. Sorenson, Postdoctoral Fellow, University of Minnesota. "An Experimental Study of Sexual Selection in the White-Cheeked Pintail and Northern Pintail," with Scott Derrickson, February 1, 1990 to January 31, 1991.
- Michael D. Sorenson, Postdoctoral Fellow, University of Minnesota. "The Evolution of Parasitic Egg-Laying in Redhead Ducks: The Effects of Host Availability and Sexual Imprinting," with Scott Derrickson, from August 1, 1990 to July 31, 1991.
- Claudia R. Valeggia, Exchange Student, University of California, Davis. "Animal Behavior," with Rudy Rudran, from September 1, 1990 to June 30, 1991.
- Ian G. Warkentin, Visiting Scientist, University of Saskatchewan. "Winter Ecology of Prothonotary Warblers: Foraging Behavior and Habit Use," with Eugene Morton, from August 1, 1990 to July 31, 1992.
- SMITHSONIAN ASTROPHYSICAL OBSERVATORY
- Monique Marie G. Arnaud, Visiting Scientist, Service d'Astrophysique of Saclay. "The Atomic Processes in Hot, Thin Plasmas, and the Investigation of the Hot Gas in Clusters of Galaxies," with William R. Forman, from January 15, 1990 to February 1, 1991.
- Mary A. Barsony, Postdoctoral Fellow, California Institute of Technology. "The Submillimeter Wavelength Telescope Array," with Paul T. P. Ho, from September 1, 1990 to August 31, 1992.
- Pascale Beaufume, Predoctoral Fellow, Ecole Centrale de Paris. "Solar Plasma Physics: Anomalous Energy Transport in Solar Corona and Correlation Between Hard X-Ray and Micro-Waves in Solar Flares," with Irwin Shapiro, from July 1, 1990 to June 30, 1991.
- George Blumenthal, Visiting Scientist, University of California, San Diego. "The Three Dimensional Flow Velocity and the Mass Density in the Universe, the Correlation Function of Gamma Ray Bursts, and Other Related Topics," with Harvey Tananbaum, from August 21, 1990 to June 30, 1991.

- Webster C. Cash, Visiting Scientist, University of California, Berkeley.
 "Development of High Throughput X-Ray Telescopes of X-Ray Imaging and Dispersive Spectroscopy with Applications to Rockets and the LAMAR/High Throughput Facility," with Harvey Tananbaum, from June 1 to December 31, 1990.
- Cesare Cecchi-Pestellini, Visiting Student, University of Florence. "The Problems of Interstellar Physics and Chemistry," with Alexander Dalgarno, from January 15 to August 31, 1990.
- E. S. Chang, Visiting Scientist, University of California, Riverside.
 "Rydberg State Collisions; Rydberg States in Astrophysics; and Rydberg Structure Theory," with Alexander Dalgarno, from September 1, 1990 to May 31, 1991.
- Mark Chantell, Visiting Student, University of Arizona. "Gamma Ray Project," with Trevor Weekes, from June 18, 1990 to May 31, 1991.
- Tomasz Chlebowski, Visiting Scientist, Warsaw University Observatory.
 "Catalogue of all EINSTEIN Satellite Observations of B-Type Stars," with F. Rick Harnden, from October 1, 1989 to December 31, 1990.
- Eduardo Colombo, Predoctoral Fellow, Universidad de Buenos Aires. "The Development of the Low Cost V.H.E. Gamma Ray Telescope," with Irwin Shapiro, from October 1, 1989 to October 31, 1990.
- Salvador Curiel, Predoctoral Fellow, University of Mexico. "Shock Waves with Magnetic Precursors," from August 1, 1990 to July 31, 1991.
- Nicolaci L. A. Da Costa, Visiting Scientist, Harvard University. "Analysis of the Large-Scale Structure of the Universe Using Redshift Surveys of Southern Galaxies," with David W. Latham, from December 15, 1989 to February 28, 1991.
- Gary Fuller, Postdoctoral Fellow, University of California, Berkeley. "The Physics of Molecular Clouds and Star Formation," with Irwin Shapiro, from November 1, 1989 to October 31, 1991.
- Dalia Goldwirth-Piran, Postdoctoral Fellow, The Racah Institute of Physics.
 "Relativistic Astrophysics and Cosmology," with Irwin Shapiro, from September 1, 1990 to August 31, 1992.
- Daniel O. Gomez, Postdoctoral Fellow, Universidad de Buenos Aires. "Dynamical Processes in the Solar Corona," with Petrus Martens, from October 1, 1989 to September 30, 1990.
- Mercedes Gomez, Smithsonian Predoctoral Fellow, Cordoba National University.
 "A Proper Motion Survey of Post T-Tauri Stars in Taurus-Auriga Molecular Cloud," with Lee Hartmann, from September 1, 1990 through August 31, 1991.
- Elisabete Maria Gouveia Dal Pino, Visiting Scientist, University of Sao Paulo. "Phenomenology of Cosmic Jets," with George Field, from September 1, 1990 to August 31, 1991.

- Alan H. Guth, Visiting Scientist, Massachusetts Institute of Technology.
"Possible Mechanisms for the Creation of a Universe," with Irwin Shapiro, from January 1 to September 30, 1990.
- Xiaofeng Han, Predoctoral Fellow, Harbin Institute of Technology, China.
"Laser Spectroscopy and Applications," with W.H. Parkinson, from October 1, 1989 to September 30, 1991.
- Hardy M. Hodges, Postdoctoral Fellow, University of Chicago. "Universe Cosmology," with Irwin Shapiro, from August 1, 1990 to July 31, 1991.
- Bengt Anders Kall, Visiting Student, Chalmers University of Technology.
"Modelling of Radiometric Measurements of Horizontal Variations of the Radio Refractivity of Water Vapor," with James Davis, from May 29 to August 31, 1990.
- Bon-Chul Koo, Postdoctoral Fellow, University of California, Berkeley. "The Study of Infrared Worms and an Observational Study of Old Supernova Remnants," with Irwin Shapiro, from September 1, 1990 to August 31, 1992.
- Enrico Koper, Visiting Scientist, Leiden University. "Observations of M31," with P. Thaddeus, from October 17, 1989 to March 30, 1990.
- Jong Kung, Predoctoral Fellow, Brown University. "Study of Protocluster Using Gas Dynamics," with Irwin Shapiro, from July 1, 1990 to June 30, 1991.
- Jerry LaSala, Visiting Scientist, Dartmouth College. "The Development of an Integrated Software Package for the Analysis and Classification of MK-Dispersion Objective-Prism Spectra," with M. J. Kurtz, from February 2, 1990 to January 31, 1991.
- Peter Langhoff, Visiting Scientist, State University of New York.
"Theoretical Atomic and Molecular Physics," with Alexander Dalgarno, from May 1 to November 30, 1990.
- Weihong Liu, Predoctoral Fellow, Peking University. "The Physical and Chemical Processes in Astronomical Objects," with Irwin Shapiro, from October 1, 1989 to September 30, 1991.
- Alan Marscher, Visiting Scientist, University of Virginia. "VLBI and X-Ray Observations of Quasars and Theoretical Work on the Gas Dynamics and Radiation of Relativistic Jets," with James Moran, from August 1, 1990 to July 31, 1991.
- Pablo Mauas, Visiting Scientist, Universidad Nacional de Buenos Aires. "The Study of the Solar Chromosphere, Especially its Energetic Balance," with Eugene Avrett, from December 1, 1989 to September 30, 1990.
- Peter Meszaros, Visiting Scientist, University of California, Berkeley.
"Neutron Star High Energy Properties and the Cosmic X-Ray Background Radiation," with George Field, from September 1 to December 31, 1990.
- David Micha, Visiting Scientist, University of Uppsala, Sweden. "Theoretical Atomic and Molecular Physics," with Alexander Dalgarno, from August 1 to December 31, 1990.

- John Morgan, Visiting Scientist, University of California, Berkeley. "Atomic and Molecular Theory," with Alexander Dalgarno, from October 1, 1989 to August 31, 1991.
- Rachel Padman, Visiting Scientist, St. John's College, Cambridge. "Development of Optical Considerations for the Submillimeter Antennas," with Colin Masson, from January 15 to April 15, 1990.
- Monica Pasca, Visiting Student, University of Rome. "The Investigation of Non-Linear Oscillations of Tethered Systems, Stability of Motion Following Large Disturbances, and Modal Resonances with External Perturbations," with Enrico Lorenzini, from January 15 to July 15, 1990.
- Tsvi Piran, Visiting Scientist, Hebrew University. "Initial Conditions for Inflation and the Very Early Universe; Evolution of Strings Network; Numerical Relativity; and Relativistic Astrophysics," with George Field, from September 1, 1990 to August 31, 1991.
- Michael Punch, Visiting Scientist, University College, Dublin. "Observation of the 10M Reflector and Design of a Semi-Automated Telescope," with Trevor Weekes, from December 27, 1989 to February 9, 1990.
- Massimo Ramella, Visiting Scientist, Trieste University. "Analysis of Groups of Galaxies," with Margaret Geller, from March 1 to August 31, 1990.
- Paola Rossi, Predoctoral Fellow, Universita' di Torino. "The Structure and Stability of Magnetic Flux Tubes in the Solar Atmosphere," with Wolfgang Kalkofen, from October 1, 1989 to September 30, 1991.
- Timothy Scholz, Postdoctoral Fellow, Queen's University, Ireland. "Various Aspects of Electron Scattering by Atomic Targets," with A. Dalgarno, from August 27, 1990 through August 26, 1991.
- Wei Shen, Visiting Scientist, Beijing University, China. "The Properties of the Atomic Hydrogen Maser," with Robert F. C. Vessot, from December 1, 1989 to May 14, 1990.
- Janine Shertzer, Visiting Scientist, Brown University. "The Binding Energy of the Muonic Molecular Ions: Application of the Finite Method of Calculation," with Alexander Dalgarno, from June 1, 1990 to May 31, 1991.
- Kazuo Shibasaki, Visiting Scientist, University of Tokyo. "Spectroscopic Measurements of Chemicals in the Earth's Ozone Layer," with Kelly Chance, from April 1, 1990 to March 31, 1991.
- Alok Shukla, Visiting Student, University of Washington. "Theory of Electric Dipole Moment of Atomic Rubidium Due to Parity and Time Reversal Violation," with Alexander Dalgarno, from June 15 to September 15, 1990.
- Aneta Siemiginowska, Predoctoral Fellow, Warsaw University. "Accretion Disks in Active Galactic Nuclei," with Martin Elvis, from August 1, 1990 to July 31, 1991.
- Kulinder Pal Singh, International Exchange Visitor, Bombay University. "X-Ray Spectroscopy of Supernova Remnants," with John Hughes, from April 30 to September 30, 1990.

- Guoqiang Tang, Visiting Scientist, Chalmers University of Technology.
 "Differential VLBI Measurements on the Quasar 4C39.25," with Irwin Shapiro, from June 15, 1989 to September 30, 1990.
- Han Uitenbroek, Visiting Scientist, Assistant Researcher. "Astrophysical Radiative Transfer Modeling with Partial Redistribution," with Eugene Avrett, from June 1, 1990 to May 31, 1991.
- Shoba Veeraraghavan, Postdoctoral Fellow, University of California, Berkeley.
 "Physical Cosmology, the Astrophysics-Cosmology-High Energy Physics Interface, and Theoretical Astrophysics," with George Field, from November 1, 1989 to October 31, 1990.
- Boqi Wang, Visiting Scientist, Harvard University. "The State of the Universe at Redshift of the Order of Ten," with George Field, from November 1, 1989 to June 30, 1990.
- Terry Whitaker, Visiting Student, University of Arizona. "Air Shower Array Data Analysis for Gamma Ray Sources," with Trevor Weekes, from June 18, 1990 to May 31, 1991.
- David White, Predoctoral Fellow, University College of London. "Study of Hot and Cold Gas in Early-Type Galaxies," with Irwin Shapiro, from November 1, 1989 to April 30, 1991.
- Bruce Wilking, Visiting Scientist, University of Missouri, St. Louis. "The Initial Stellar Populations of Nearby Molecular Clouds," with Dr. Charles Lada, from September 4, 1990 to September 3, 1991.
- Thomas Winter, Visiting Scientist, University of Wisconsin, Madison.
 "Electron Transfer, Excitation, and Ionization in Ion-Atomic Collisions," with A. Dalgarno, from September 1 through December 31, 1990.
- Mark G. Wolfire, Postdoctoral Fellow, University of Wisconsin, Madison.
 "Submillimeter Wavelength Telescope Array," with Paul T. P. Ho, from September 1, 1990 to August 31, 1992.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

- Lucia R. Dillenburg, Predoctoral Fellow, University of Maryland. "Competition Between Temperate Forest Vine and Tree Species," with Dennis Whigham, from June 1, 1990 to May 31, 1991.
- Joseph F. Dineen, Postdoctoral Fellow, University of Maryland. "Factors Influencing Balanus Settlement Relevant to Adult Zonation in the Chesapeake Bay," with Anson Hines, from October 1, 1989 to September 30, 1990.
- John R. Dolan, Postdoctoral Fellow, University of Maryland. "Carbon Flux in the Rhode River Estuary: The Trophic Link Between Metazoan Zooplankton," with Charles Gallegos, from August 1, 1990 to July 31, 1991.

- Richard Everett, Postdoctoral Fellow, University of California, Berkeley. "Distribution Abundance, and Population Structure of Grass Shrimp, Palaemonetes pugio in Nearshore Habitats of Chesapeake Bay: The Importance of Predatory Fish," with Gregory Ruiz, from September 1, 1990 to August 31, 1991.
- Grace Ju, Postdoctoral Fellow, Purdue University. "A Model System for Studying the Role of Glycinebetaine and Glutamate Dehydrogenase in Nitrogen Productivity Under Salt Stress Environments," with Bert Drake, from August 15, 1990 to August 14, 1991.
- David W. Lawlor, Senior Postdoctoral Fellow, University of London. "Effects of Elevated Carbon Dioxide on the Structure, Composition, and Photosynthetic Function of Scirpus in a Salt Marsh Community," with Bert Drake, from April 1 to October 31, 1990.
- Junda Lin, Postdoctoral Fellow, University of North Carolina, Chapel Hill. "Complex Interactions Among Competition, Predation, and Substrate Composition," with Anson Hines, from August 15, 1990 to February 14, 1991.
- Daniel K. Niven, Graduate Student Fellow, University of Illinois. "Sexual Segregation and Habitat Use in a Neotropical Avian Migrant," with James Lynch, from May 14 to July 23, 1990.
- L. David Smith, Postdoctoral Fellow, University of Maryland. "Sexual Selection and Mating System of the Blue Crab, Callinectes sapidus Rathbun," with Anson Hines, from September 1, 1990 to December 31, 1991.
- Panchabi Vaithiyathan, Postdoctoral Fellow, Jawaharlal Nehru University, India. "Factors in Controlling the Release of Phosphorus from Sediments in the Estuarine Region," with David Correll, from September 1, 1990 to August 31, 1991.
- Zhigang Wang, Postdoctoral Fellow, University of Cambridge. "Population Ecology of Epifaqus virginiana," with Dennis Whigham, from October 1, 1989 to September 30, 1990.
- Jess K. Zimmerman, Postdoctoral Fellow, University of Utah. "The Resource Economy of Uvularia perfoliata," with Dennis Whigham, from August 1, 1990 to July 31, 1991.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- T. Mitchell Aide, Postdoctoral Fellow, University of Utah. "Late Pleistocene Origin of the Central American Flora," with Dolores Piperno, from January 1 to June 30, 1990.
- Gerald Allen, Visiting Scientist, University of Hawaii. "An Identification Guide to the Fishes of the Tropical Eastern Pacific," with Ross Robertson, from March 1 to June 30, 1990.
- Parthiba Basu, Short-Term Fellow, Pondicherry University. "Distribution of Ants in Different Island in the Gatun Lake," with Joseph Wright, from August 18, 1990.

- Jean-Philippe Boubli, Short-Term Fellow. "Time Allocation, Diet, and Selection of Feeding Substrate in Sanguinus oedipus geoffroyi of Barro Colorado Island," with Nicholas Smythe, from June 1 to August 31, 1990.
- Christian D'Orgeix, Short-Term Fellow. "Multiple Paternity of the From Agalychnis callidryas," with Stanley Rand, from August 10 to November 10, 1990.
- Ovidio Duran, Exxon Fellow, University of Panama. "Determinacion del grado de Heterocigosidad Gentica de las Abejas Africanizadas en Panama," with David Roubik and Felicita Sousa, from February 1 through April 30, 1990.
- Stephen T. Emlen, Senior Postdoctoral Fellow, University of Michigan. "The Evolutionary Consequences of Behavioral Sex Role Reversal," with A. Stanley Rand, from June 1, 1990 to April 15, 1991.
- Pierre-Michel Forget, Postdoctoral Fellow, Universite de Paris 6. "Seed Dispersal by Large Rodents in South American Tropical Forests," with Nicholas Smythe, from November 1, 1989 to October 31, 1990.
- Ulisses Galatti, Latin American Fellow, Intituto Nacional de Pesquisas da Amazonia. "Variation in Morphology Vocalization and Habitat of Leptodactylus pentadactylus in Panama," with Standley Rand, from May 7 through August 7, 1990.
- Manuel Guariguata, Short-Term Fellow, Yale University. "Sprouting Ability in Canopy Tree Juveniles," with Alan Smith, from July 2 through October 10, 1990.
- James L. Hamrick, Senior Fellow, University of California, Berkeley. "Causes of Genetic Structure in Tropical Tree Populations," with Alan Smith, from October 1, 1989 to August 31, 1992.
- Edward A. Herre, Visiting Scientist, University of Illinois. "The Biology of Nematode Parasites of Fig Wasps," with Donald Windsor from April 15 to December 14, 1990.
- Kevin Hogan, Visiting Scientist, University of Illinois. "Physiological and Ecological Implications of a Geographic Gradient in Rainfall for Some Tropical Understory Shrub Species," with Alan P. Smith, from December 1, 1988 to September 30, 1990.
- Weishan Jin, Short-Term Fellow. "Leaf Lifetime and Plant Antiherbivore Defense," with Alan Smith, from September 12 to December 18, 1990.
- Kenneth G. Johnson, Predoctoral Fellow, University of Iowa. "Testing for Natural Selection on Corals: Patterns of Skeletal Morphology, Fertility, and Genetic Variation in Natural Populations of Manicina areolata (Scleractinia)," with Nancy Knowlton, from October 1, 1989 to September 30, 1990.
- Frank J. Joyce, Postdoctoral Fellow, Cornell University. "Nest-Site Selection by Two Species of Neotropical Social Wasps," with Mary Jane West-Eberhard, from May 1, 1990 to June 30, 1991.

- Thomas Juenger, Short Term Fellow. "Social Organization and Mating System of Tropical Tent-Making Bats," with Stanley Rand, from June 1 to August 30, 1990.
- David A. King, Senior Postdoctoral Fellow, University of Wisconsin, Madison. "The Significance of Leaf Arrangement in Tropical Trees," with Egbert Leigh, from August 9, 1990 to August 8, 1991.
- Katarzyna Kubzdela, Short-Term Fellow. "Feeding Ecology and Food Patch Abandonment in Ateles geoffroyi of Barro Colorado Island," with Nicholas Smythe, from June 1 to August 31, 1990.
- Catherine Marler, Short-Term Fellow, University of Texas. "Mechanistic and Evolutionary Investigations of Natural Levels of Display Behavior of the Tungara Frog," with Stanley Rand, from July 9 through August 30, 1990.
- Alberto Mena, Exxon Fellow, University of Panama. "Estrategias de Nidificacion y Metodo de Captura de Avispas Pompilidas (Himenoptera: pompilidae) en San Blas," with Stanley Rand, from May 7 through August 7, 1990.
- Victor Moreno, Exxon Fellow, University of Panama. "Determinacion del Grado de Heterocidad Genetico de las Abejas Africanizadas en Panama," with David Roubik and Felicita Sousa, from February 1 through April 30, 1990.
- Darlyne Murawski, Postdoctoral Fellow, University of Texas. "Causes of Genetic Structure in Tropical Tree Populations," with James Hamrick, from September 1, 1989 to September 30, 1990.
- Sean O'Donnell, Short Term Fellow. "The Physiology of Behavioral Specialization in Tropical Swarm-Founding Wasps (Hymenoptera: Vespidae: Epiponini)," with Donald Windsor, from June 20 to October 19, 1990.
- Alfredo Reyes, Latin America Fellow, University of Panama. "Balance de Energia en Hojas de Arboles a Diferentes Niveles de Altura en el Bosque Humedo Tropical," with Alan Smith, from July 1 through September 30, 1990.
- Cynthia L. Sagers, Predoctoral Fellow, University of Utah. "Variation in Secondary Metabolites and Some Effects on Plant Fitness," with Egbert Leigh, from August 24, 1990 to August 23, 1991.
- Oris Sanjur, Exxon Fellow, University of Panama. "Estudio del Numero de Cromosomas en el Genero Abudefduf," with Harilaos Lessios and Eduardo Vega from October 16, 1989 through January 14, 1990.
- Michelle Smith, Short-Term Fellow. "Communication and Behavior Patterns of Baird's Tapir (Tapirus bairdii) on Barro Colorado Island," with Nicholas Smythe, from September 1 to November 30, 1990.
- David Snyderman, Short-Term Fellow, University of Vermont. "Comparison of the Hydraulic Architecture of Evergreen and Deciduous Trees," with Egbert Leigh and Alan Smith, from October 16 through December 26, 1989.

Yan Song, Short Term Fellow. "Hard Mass Scaling in Benthic Foraminifera: Allometric and Adaptive Implications," with Dr. Jeremy Jackson, from May 1, to July 31, 1990.

David Tissue, Short Term Fellow. "Flowering in Psychotria: The Role of Total Nonstructural Carbohydrates," with S. J. Wright, from May 1 to July 31, 1990.

Kevina Vulinec, Graduate Student Fellow, University of Chicago. "The Evolution of Horns and Correlated Behaviors in New World Dung Beetles of the Genus Copris Muller (Coleoptera: Scarabaeidae)," with William Eberhard, from April 16 to June 22, 1990.

Jeanne Zeh, Short Term Fellow. "Population Differentiation and the Panama Canal: Incipient Speciation in a Neotropical Pseudoscorpion," with William Eberhard, from October 15, 1989 to January 15, 1990.

MUSEUMS

ARCHIVES OF AMERICAN ART

E. Margarita Nieto, Senior Postdoctoral Fellow, University of California, Northridge. "The Postmodern Sources of Los Angeles Chicano-Latino Art History: Archival Collections from the Postwar Years to 1965," with Paul Karlstrom, from August 1, 1990 to July 31, 1991.

Jontyle Theresa Robinson, Visiting Scholar, University of Maryland. "The Art of Archibald J. Motley, Jr.," with Garnett McCoy and Lois Fink, from July 1, 1990 to December 31, 1991.

ARTHUR M. SACKLER GALLERY

Yuyun Chen, International Exchange Visitor, Zhejiang University, China. "Preparation and Examination of Archaeological Metal Samples at the Smithsonian, and Phase Identification and Solidification Behavior of the Copper-Tin-Lead System at Lehigh University," with Thomas Chase, from January 15 to November 15, 1990.

Boris Marshak, International Exchange Scholar, State Hermitage Museum in Leningrad. "Near Eastern metalwork collections of the Arthur M. Sackler Gallery and the Freer Gallery of Art," with Glenn D. Lowery and Ann Gunter, from November 1989 to January 1990.

Woodman L. Taylor, Graduate Student Fellow, University of Chicago. "Muslim Constructions of Hindu Worlds: Patrons', Painters', and Translators' Interpretations in the Freer Ramayana and Harivamsa," with Milo Beach, from June 18 to August 24, 1990.

CONSERVATION ANALYTICAL LABORATORY

Yuyun Chen, Smithsonian Institution Fellow, University of Science and Technology, China. "Residency in Archeological Metallurgy," with Martha Goodway from June 15 to September 15, 1990.

- Susan Heald, Postgraduate Conservation Intern, University of Delaware. "Conservation Materials Used in the Storage, Exhibition, and Shipping of Textiles," with Mary Ballard, from September 15, 1990 to September 14, 1991.
- Michelle M. Hegmon, Postdoctoral Fellow, University of Michigan. "Regional Interaction and Exchange Among Early Neolithic Communities in the North American Southwest (A.D. 800-1050): Analysis of Ceramic Composition," with Ronald Bishop, from February 1, 1990 to January 31, 1991.
- Ng-Lim Chong Quek, Asian Art Fellow (Asian Cultural Council), Head of Conservation, National Museum, Singapore. "Verification of mechanical Properties of 19th century Easel Paintings from the collections of the National Museum of Singapore," with Mary Ballard and M. Mecklenberg, from November 20, 1989 through January 20, 1990.
- Terry Schaeffer, Research Collaborator, University of California, Berkeley. "The Effect of Ageing on Aqueously Light-Bleached Paper," with Dianne van der Reyden, from October 1989 through November 1990.
- Freddie Talboada Tellez, Fulbright Scholar, National Museum of Ethnography and Folklore, La Paz Bolivia. "Archaeological Textile Fragments from Bolivia," with Mary Ballard, June and August, 1990.
- Agnes Timar-Balazsy, Visiting Professional, Textiles, National Center of Museums, Budapest. "Training Methods and Educational Opportunities for Conservators," with Mary Ballard, from September through October 1989.
- Aslihan Yener, Visiting Scientist, Columbia University. "The Archaeometallurgy of Ancient Anatolia," with Thomas Chase, from April 1, 1990 to March 31, 1991.

FREER GALLERY OF ART

- Yuyun Chen, International Exchange Visitor, Zhejiang University, China. "Preparation and Examination of Archaeological Metal Samples at the Smithsonian, and Phase Identification and Solidification Behavior of the Copper-Tin-Lead System at Lehigh University," with Thomas Chase, from January 15 to November 15, 1990.
- Margaret MacDonald, Smithsonian Short-Term Visitor, Honorary Research Fellow, Hunterian Art Gallery, University of Glasgow. "Catalogue raisonne of Whistler Pastels, Watercolor Paintings, and Drawings," with Linda Merrill, March 1990.
- Boris Marshak, International Exchange Scholar, State Hermitage Museum in Leningrad. "Near Eastern metalwork collections of the Arthur M. Sackler Gallery and the Freer Gallery of Art," with Glenn D. Lowery and Ann Gunter, from November 1989 to January 1990.
- Eun-wha Park, Freer Fellow, University of Michigan. "Ming dynasty painter Xiang Shengmo (1597-1658) and his circle," with Shen Fu, from January through June, 1990.
- Kathleen A. Pyne, Smithsonian Postdoctoral Fellow, University of Notre Dame. "Transcendence and Impressionism in Late 19th-century American Painting," with Linda Merrill, from September 1990 to May 1991.

Lynne C. Cooke, Postdoctoral Fellow, London University. "Developments in American Sculpture, 1968-1988," with Ned Rifkin, from October 1, 1989 to September 30, 1990.

Mary V. Drach, Graduate Student Fellow, Boston University. "Alberto Giacometti's Ethnographic Surrealism," with Valerie Fletcher, from August 30, 1990 to May 1, 1991.

Ann E. Gibson, Postdoctoral Fellow, University of Delaware. "Toward a Cultural History of Abstract Expressionism," with Phyllis Rosenzweig, from September 1, 1990 to August 31, 1991.

Robert E. Haywood, Predoctoral Fellow, University of Michigan. "Beyond the Canvas: The Invention of Happenings," with Ned Rifkin, from September 1, 1990 to August 31, 1991.

NATIONAL AIR AND SPACE MUSEUM

Michael Dennis, Guggenheim Postdoctoral Fellow, The Johns Hopkins University. "A Change of State: Technical Practice and Politics at the MIT Instrumentation Laboratory and the Johns Hopkins Applied Physics Laboratory, 1935-1957," with David DeVorkin, from September 1, 1990 to August 31, 1991.

Robert Desieno, Visiting Scholar, University of California, Davis. "The History of Nuclear Arms Testing," with Gregg Herken, from January 1 to August 31, 1990.

Chris H. Gray, Graduate Student Fellow, University of California, Santa Cruz. "Artificial Intelligence and Real War: The Shaping of Postmodern Conflict in the United States Military," with Paul Ceruzzi, from July 30 to October 5, 1990.

Richard P. Hallion, Charles A. Lindbergh Chair. "High Speed Aerodynamics and the Evolution of Hypersonic Aircraft," with Tom Crouch, from July 1, 1990 through August 31, 1991.

Suzanne L. Kolm, Predoctoral Fellow, Brown University. "The Cultural History of Flight Attendants, 1930-1978," with Dominick Pisano, from September 1, 1990 to August 31, 1991.

Mark S. Robinson, Graduate Student Fellow, Hawaii Institute of Geophysics. "Analysis of Viking Multi-Spectral Image and IRTM Data of the Apollinaris Patera Region, Mars," with James Zimbelman, from September 17 to December 1, 1990.

Debra L. Simpson, Graduate Student Fellow, West Chester University. "An Investigation of Wrinkle Ridge--Upland Scarp Associations on Mercury, Earth, and Mars," with Thomas Watters, from June 4 to August 10, 1990.

Dmitry Sobolev, International Fellow, Academy of Science. "Comparative Analysis of the Construction Development of the Aeroplanes in the USSR and USA until 1945," with Von Hardesty, from November 1, 1989 to July 31, 1990.

Leikun Teferra, Graduate Student Fellow, University of Maryland. "A Comparison of U.S. and Soviet Exploration of the Planet Venus," with Cathleen Lewis, from June 1 to August 10, 1990.

Jacob Vander Meulen, A. Verville Postdoctoral Fellow, University of Toronto. "Building Airpower: The American Aircraft and Industry During World War II," with Von Hardesty, from September 1, 1990 to August 31, 1991.

Elena L. Zheltova, International Fellow, Academy of Sciences. "Major Historical Trends of Aviation Flight Guidance and Control Systems," with Dominick Pisano, from October 1, 1989 through August 31, 1990.

NATIONAL MUSEUM OF AFRICAN ART

Gilbert Amegatcher, Graduate Student Fellow, Indiana University. "Three Decades of Modern Art in Ghana," with Roy Sieber, from June 1 to August 15, 1990.

Michelle V. Gilbert, Senior Postdoctoral Fellow, University of London. "Odwira: Feast of the Dead," with Roy Sieber, from February 1 to July 31, 1990.

Madeleine Hexter, Postgraduate Conservation Intern, University of Delaware. "A Technical Study of Copper Alloy Objects," with Stephen Mellor, from October 16, 1989 to October 16, 1990.

Ebenezer Nii O. Quarcoopome, Predoctoral Fellow, University of California, Los Angeles. "Art and Leadership Among the Ga-Adangme and Ewe of Ghana and Togo," with Roy Sieber, from February 25, 1990 to February 24, 1991.

NATIONAL MUSEUM OF AMERICAN ART

Michele H. Bogart, Senior Postdoctoral Fellow, University of Chicago. "Advertising, Illustration, and the Borders of Art, 1890-1950," with Virginia Mecklenburg, from September 15, 1990 to January 15, 1991.

Lynn M. Cazabon, Graduate Student Fellow, Cranbrook Academy of Art, Michigan. "Treatment of the Body in the Work of Paul Outerbridge, Jr.," with Merry Foresta, from September 1 to November 10, 1990.

Leah C. Dilworth, Graduate Student Fellow, Yale University. "Imagining the Primitive: Representations of Native Americans of the Southwest, 1880-1930," with William Truettner, from June 4 to August 10, 1990.

Matthew A. Kangas, Senior Fellow, Oxford University. "Two Aspects of American Ceramics: Sculpture and Text," with Michael Monroe, from October 1, 1989 to May 31, 1990.

Theresa A. Leininger, Graduate Student Fellow, Yale University. "African-American Artists in Paris, 1922-1932," with Lynda Hartigan, from June 25 to September 3, 1990.

David P. McCarthy, Predoctoral Fellow, University of Delaware. "The Nude in American Painting, 1955-1980," with Virginia Mecklenburg, from July 1, 1990 to June 30, 1991.

Alexander M. Nemerov, Predoctoral Fellow, Yale University. "Making History: Representations of the American West, 1885-1916," with William Truettner, from November 1, 1989 to October 31, 1990.

Mary E. L. O'Leary, Predoctoral Fellow, University of Virginia. "The Representation of Domestic Servants in Nineteenth Century American Painting," with Lois Fink, from July 23, 1990 to July 22, 1991.

Winifred Owens-Hart, Senior Fellow, Howard University. "Black on Brown: African-American Clayworkers and Their Impact on American Culture," with Michael Monroe, from December 29, 1989 to May 29, 1990.

Kathleen A. Pyne, Postdoctoral Fellow, University of Notre Dame. "Transcendence and Impressionism in Late Nineteenth Century American Painting," with Elizabeth Broun, from September 1, 1990 to May 31, 1991.

NATIONAL MUSEUM OF AMERICAN HISTORY

Jane S. Becker, Graduate Student Fellow, Boston University. "Inventing the American Folk, 1915-1942," with Charles McGovern, from August 27 to November 2, 1990.

Robert E. Bieder, Senior Postdoctoral Fellow, University of Minnesota. "A Social-Cultural-Scientific History of the Zoo in America," with Nathan Reingold, from August 1, 1990 to July 31, 1991.

William J. Bolster, Predoctoral Fellow, Johns Hopkins University. "'To Feel Like a Man': African-American Seamen in the Atlantic World, 1750-1885," with James Horton, from June 1, 1990 to May 31, 1991.

Ole Bom, Suzanne Liebers Erickson Exchange Visitor, University of Copenhagen. "Riis' Use of Photography and the Related Visual Medium of the Lantern Slide Exhibition," with Charles McGovern, from July 1 to October 18, 1990.

Eileen C. Boris, Senior Postdoctoral Fellow, Brown University. "Between Home and Market: The Making and Buying of Garments in Industrializing America, 1820-1920," with Barbara Clark Smith, from June 1, 1990 to May 31, 1991.

John K. Brown, Predoctoral Fellow, University of Virginia. "The Manufacture of Power," with John White, from March 30, 1990 to March 29, 1991.

Andrzej Ceynowa, Senior Postdoctoral Fellow, Adam Mickiewicz University, Poland. "Introduction to the History of American Culture," with Gary Kulik, from June 15, 1990 to June 14, 1991.

- Daniel Goldstein, Postdoctoral Fellow, Yale University. "The Place of Midwestern Academies of Science in the National Scientific Community, 1850-1900," with Pamela Henson, from January 7 to August 16, 1991.
- Elise Goldwasser, Graduate Student Fellow, Duke University. "The Circus and Dreams of Empire in the United States, 1870-1930," with Charles McGovern, from August 13 to October 22, 1990.
- David H. Guston, Graduate Student Fellow, Massachusetts Institute of Technology. "Congress and the History of Science: The Allison Commission, 1884-1886," with Jeffrey Stine, from June 1 to August 10, 1990.
- Patrick Hagopian, Predoctoral Fellow, Johns Hopkins University. "The Social Memory of the Vietnam War," with Edward Ezell, from July 16, 1990 to July 15, 1991.
- Amy L. Hardin, Predoctoral Fellow, University of Delaware. "'A New Way to Look and a New Way to Live': The Synthetic Fibers Industry and American Consumer Culture, 1945-1980," with Charles McGovern, from June 1, 1990 to May 31, 1991.
- Jeanne Houck, Predoctoral Fellow, New York University. "City of Monuments: Constructing Historical Memory and National Identity in Washington, D.C., 1901-1982," with Charles McGovern, from September 1, 1990 to August 31, 1991.
- Eva Illouz, Predoctoral Fellow, University of Pennsylvania. "Consuming Love: The Representation of Romantic Love in Consumerist Culture, 1900-1930," with Charles McGovern, from February 1 to July 31, 1990.
- Jerma Jackson, Predoctoral Fellow, Rutgers University. "Blues, Jazz, and Gospel Music: Sites of Inter- and Intraracial Conflict," with Charles McGovern, from September 1, 1990 to August 31, 1991.
- Laurie Beth Kalb, Graduate Student Fellow, University of Pennsylvania. "New Mexico Santos and the Smithsonian Collections: Partners in the Production of Contemporary Folk Art," with Richard Ahlborn, from February 5 to April 18, 1990.
- Nelson R. Kellogg, Predoctoral Fellow, Johns Hopkins University. "An Issue of Standards: The Career of Samuel Wesley Stratton," with Nathan Reingold, from September 1, 1990 to August 31, 1991.
- Eric D. Kupferberg, Graduate Student Fellow, Massachusetts Institute of Technology. "International Science and the Dissemination of Information: A Historical Study of the International Exchange Service and the International Catalogue of Scientific Literature," with Patricia Gossel, from June 11 to August 17, 1990.
- James W. Loewen, Senior Postdoctoral Fellow, Harvard University. "Lies My Teacher Told Me," with Gary Kulik, from September 1, 1990 to May 31, 1991.

- Patrick B. Miller, Postdoctoral Fellow, University of California, Berkeley.
 "Rendering the Athletic Metaphor: Sport and Culture in Turn-of-the-Century America," with Charles McGovern, from May 15, 1990 to May 14, 1991.
- Ruth Oldenziel, Predoctoral Fellow, Yale University. "Gender and the Changing Meanings of Technology, 1880-1920," with Steven Lubar, from March 1, 1990 to February 28, 1991.
- Mary Panzer, Visiting Scholar, Boston University. "Romantic Origins of American Realism, 1850-1875," with Charles McGovern, from August 9, 1990 to August 8, 1991.
- Joseph P. Reidy, Postdoctoral Fellow, Northern Illinois University.
 "Bittersweet: The Mechanization of Field Labor on Louisiana Sugar Plantations, 1873-1914," with Pete Daniel, from July 1, 1990 to June 30, 1991.
- Catherine L. Roy, Graduate Student Fellow, University of Alberta. "Men's Pattern Drafting Systems--Nineteenth and Early Twentieth Century," with Claudia Kidwell, from October 2 to December 9, 1989.
- Laxman D. Satya, Predoctoral Fellow, Tufts University. "A Comparative Study of Cotton Ginning Technology in America and India in the Nineteenth Century," with Pete Daniel, from September 1, 1990 to August 31, 1991.
- Kim E. Wallace, Predoctoral Fellow, University of Pennsylvania. "Breezewood, Pennsylvania, Town of Motels: An Ethnographic History of a Landscape of Postmodernism," with Pete Daniel, from November 1, 1989 to January 31, 1991.

NATIONAL MUSEUM OF NATURAL HISTORY

- Mones S. Abu-Asab, Postdoctoral Fellow, Ohio University. "Phylogenetic Affinities of Tribe Ajugeae (Labiatae)," with Joan Nowicke, from August 1, 1990 to July 31, 1991.
- Byron Alexander, Postdoctoral Fellow, Cornell University. "A Phylogenetic Analysis of the Species of Clypeadon and Listropygia (Hymenoptera: Sphecidae)," with Karl Krombein, from January 1 to August 31, 1990.
- Julie W. Ambler, Visiting Scientist, Texas A&M University. "Population Dynamics of Dioithona oculata Near Red Mangrove Root," with Frank Ferrari, from December 1, 1989 to July 1, 1990.
- Didier Arbouille, Visiting Scientist, University of Bordeaux I. "Nile Delta Project," with Daniel Stanley, from October 16, 1989 to October 15, 1990.
- Richard Beer Aronson, Visiting Scientist, Harvard University. "Recovery of Jamaican Coral Reef Mobile Faunas Following Hurricane Gilbert," with David Pawson, from October 9, 1989 to October 8, 1990.

- Susan Arter, Visiting Student, George Washington University. "Powers Phase Faunal Analysis," with Bruce Smith, from September 1, 1990 to August 31, 1991.
- Richard M. Bateman, Postdoctoral Fellow, London University. "Numerical Cladistic Analyses of Anatomically-Preserved Arboreal Lycopods from the Carboniferous of Euramerica," with William DiMichele, from June 1, 1990 to May 31, 1991.
- Stanley D. Blum, Postdoctoral Fellow, University of Hawaii. "A Cranial Morphology of Selected Beryciform and Percoid Fishes," with G. David Johnson, from December 15, 1990 to December 14, 1991.
- Maria Braga, Visiting Student, University of Maryland, College Park. "Leaf Decomposition in Brazilian Streams: The Role of Aquatic Insects," with Oliver Flint, from June 1, 1990 to August 31, 1991.
- Catherine Caillet, Postdoctoral Fellow, Universite Pierre et Marie Curie, Paris, France. "An Integrated Study of Calcium Aluminum Inclusions from Primitive Meteorites. Did the Short-Lived ^{26}Al Isotope Play a Role in the Early Heat Budget of the Planetesimals?," with Glenn MacPherson, from June 1, 1990 to May 31, 1991.
- Charles B. Calloway, Postdoctoral Fellow, Harvard University. "Brooding in the Teredinidae (Mollusca: Bivalvia)," with Mary Rice, from January 15, 1990 to January 14, 1991.
- Bryan N. Danforth, Predoctoral Fellow, University of Kansas. "Testing Evolutionary Hypotheses in Light of the Phylogeny of the Macrotera Group of Perdita (Hymenoptera: Andrenidae)," with Ronald McGinley, from June 1, 1990 to January 31, 1991.
- Mario C. C. de Pinna, Graduate Student Fellow, City University of New York. "Phylogeny and Generic Revision of Stegophilinae (Teleostei, Trichomycteridae)," with Richard Vari, from June 15 to August 24, 1990.
- Walentina De Weerd, Postdoctoral Fellow, University of Amsterdam, The Netherlands. "Post Oligocene Radiation of the Tropical Sponge Genus Xestospongia (Haplosclerida)," with Klaus Ruetzler, from June 1, 1990 to May 31, 1991.
- Tom D. Dillehay, Senior Postdoctoral Fellow, University of Texas, Austin. "Comparative Analysis of Faunal and Lithic Collections from Monte Verde, Chile," with Dennis Stanford, from January 1 to May 31, 1990.
- Gregory E. Dowd, Postdoctoral Fellow, Princeton University. "'The Voice of Bad Birds': Rumors on the American Indian-Anglo-American Frontier, 1607-1815," with William Sturtevant, from September 1, 1990 to May 31, 1991.
- J. Emmett Duffy, Postdoctoral Fellow, University of North Carolina, Chapel Hill. "Host Specificity and Speciation in Tropical Sponge-Dwelling Shrimps (Synalpheus spp.)," with Brian Kensley, from January 5, 1990 to January 4, 1991.

- Melvin R. Duvall, Visiting Scientist, University of Minnesota. "A - Phylogenetic Investigation of the Eragrostideae," with Paul Peterson, from January 1 to December 31, 1990.
- Marc Epstein, Postdoctoral Fellow, University of Minnesota. "Development of Higher Classification of the Slug Caterpillars (Lepidoptera: Limacodidae)," with Donald Davis, from October 15, 1989 to October 14, 1990.
- Brenda M. Farnell, Postdoctoral Fellow, Indiana University. "Signs of the Time: Rethinking Relations Between Plains Indian Sign Language and Anthropology," with Ives Goddard, from September 1, 1990 to August 31, 1991.
- Mario J. Giaramita, Postdoctoral Fellow, University of California, Davis. "Fluid Inclusion Analysis and Thermobarometry of Crustal Eclogites: Constraints on Fluid Interactions, Thermal Structure, and Uplift in Subduction Zones," with Sorena Sorensen, from September 1, 1990 to August 31, 1991.
- Anthony C. Gill, Postdoctoral Fellow, University of New England, Australia. "Taxonomic Revision of the Gobioid Fish Genus Xenisthmus, with a Phylogenetic and Biogeographic Analysis of the Xenisthmidae," with G. David Johnson, from July 1, 1990 to June 30, 1991.
- Christopher J. Glasby, Postdoctoral Fellow, University of Sydney. "A Generic Revision and Phylogeny of the Hesionidae (Polychaeta)," with Kristian Fauchald, from February 1, 1990 to January 31, 1991.
- Kristen J. Gremillion, Postdoctoral Fellow, University of North Carolina, Chapel Hill. "Origins of Agriculture in Eastern North America: Evidence from Kentucky Caves and Rockshelters," with Bruce Smith, from September 1, 1990 to August 31, 1991.
- Charles E. Griswold, Postdoctoral Fellow, University of California, Berkeley. "Phylogenetics and Biogeography of the Spider Family Cyatholipidae Simon 1894," with Jonathan Coddington, from January 1 to December 31, 1990.
- Gerald Guala, Visiting Student, University of Florida. "A Monograph of the Genus Apoclada," with Paul Peterson, from April 1 to June 30, 1990.
- Jane I. Guyer, Senior Postdoctoral Fellow, University of Rochester. "Agricultural Change and the Division of Labor in Western Nigeria," with Ivan Karp, from September 1, 1990 to August 31, 1991.
- Alan G. Heath, Visiting Scientist, Oregon State University. "Exploratory Investigation of the Physiological Ecology of Cyprinodont Fishes in Hypersaline Lagoons Near Carrie Bow, Belize," with Klaus Ruetzler, from April 1 to July 15, 1990.
- Sandra E. Hollimon, Postdoctoral Fellow, University of California, Santa Barbara. "Gender and Activity Patterns in Prehistoric Populations of the Northern Plains," with Douglas Ubelaker, from August 28, 1990 to August 27, 1991.

- Bernadette V. Holthuis, Predoctoral Fellow, University of Washington. "The Evolution of the Gastropod Family Neritidae into Non-Marine Habitats," with Richard Houbrick, from January 5, 1990 to January 4, 1991.
- Helene Howa, Visiting Scientist, L'Universite de Bordeaux I. "Petrologic Study of Late Quaternary Sediments and Recent Evolution of the Northwestern Nile Delta, Egypt," with Daniel Stanley, from January 1 to December 31, 1990.
- Carlos G. Jara, Graduate Student Fellow, Universidad de Concepcion, Chile. "Evaluation of Taxonomic Characters in Aeglids (Crustacea: Decapoda: Anomura)," with Raymond Manning, from March 1 to May 10, 1990.
- Alan R. Kabat, Postdoctoral Fellow, Harvard University. "Comparative Morphology and Phylogeny of the Naticid Gastropods of the Tropical Indo-Pacific and the Antarctic Regions," with M. G. Harasewych, from September 1, 1990 to August 31, 1991.
- Alan Kohn, Senior Postdoctoral Fellow, Yale University. "Systematics of Conidae," with Richard Houbrick, from January 1 to April 30, 1990.
- Corinne A. Kratz, Postdoctoral Fellow, University of Texas, Austin. "Emotional Power and Significant Movement: Womanly Transformation in Okiek Initiation," with Ivan Karp, from March 10, 1990 to March 9, 1991.
- Kathleen R. Kuehnast, Graduate Student Fellow, University of Minnesota. "Visual Anthropology and the Study of Gender Representation," with Wendy Shay, from January 8 to March 16, 1990.
- Ramiro Matos, Senior Postdoctoral Fellow, San Marcos University, Peru. "Pumpu: An Inca Regional Administrative City," with Betty Meggers, from September 15, 1990 to September 14, 1991.
- Lucile M. McCook, Postdoctoral Fellow, Cornell University. "The Diandrous Orchids, Cyprapedioideae, and Apostasioideae: Phylogenetic Relationships and an Experimental Test of Sister-Group Hypotheses," with Vicki Funk, from July 15, 1990 to January 14, 1991.
- Sharon L. Messenger, Graduate Student Fellow, San Diego State University. "The Phylogenetic Relationships of Platanistoid River Dolphins," with Clayton Ray, from June 1 to August 15, 1990.
- Haji Mohamed, Senior Postdoctoral Fellow, University of Malaya. "Taxonomic Studies in Malayan Mosses of Hookeriaceae, Hypopterygiaceae, and Daltoniaceae," with Harold Robinson, from December 1, 1989 to August 31, 1990.
- Ann E. Moran, Graduate Student Fellow, Rice University. "Trace Element Distribution in Progressively Metamorphosed Oceanic Crust," with Sorena Sorensen, from June 11 to August 17, 1990.

- Robert J. O'Hara, Postdoctoral Fellow, Harvard University. "The Phylogeny of the Swifts (Aves: Apodidae), with an Investigation of the Use of Continuously Varying Characters in Cladistic Analysis," with Richard Zusi, from September 1, 1990 to August 31, 1991.
- Thomas J. Parsons, Postdoctoral Fellow, University of Washington. "Molecular Phylogeny of the Paleognathous Birds," with Michael Braun, from October 1, 1990 to September 30, 1992.
- Gustav Paulay, Postdoctoral Fellow, University of Washington. "Pacific Bivalve Biogeography: A Mosaic of Historical and Ecological Factors," with Thomas Waller, from January 5, 1990 to January 4, 1991.
- Cynthia Pinkston, Visiting Student, University of Maryland. "Pre-Columbian Collecting at the National Museum of Natural History," with Candance Greene, from May 15 to August 15, 1990.
- Giovanni Randazzo, Visiting Scientist, Universita di Catania. "Sedimentological Research on Nile Delta Soil Borings to Define the Recent Evolution of the Nile Delta of Egypt," with Daniel Stanley, from February 15, 1990 to January 14, 1991.
- Kurt Roggensack, Graduate Student Fellow, Dartmouth College. "Mineralogy of Mexican Shield Volcanoes and Cinder Cones," with William Melson, from July 2 to September 10, 1990.
- Fatimah T. Rony, Graduate Student Fellow, Yale University. "Early Ethnographic Film in the U.S., France, and England, 1895-1922," with Wendy Shay, from July 1 to August 31, 1990.
- Regas Santas, Visiting Scientist, George Washington University. "The Restoration of Massasoit Lake, Springfield, Massachusetts," with Walter Adey, from March 15 to November 14, 1990.
- Annemette B. Scharff, Suzanne Liebers Erickson Exchange Visitor, The Royal Academy of Fine Arts. "A Study of Tapa: Causes for its Deterioration and Conservation Problems," with Natalie Firnhaber, from February 1 to August 14, 1990.
- Nikolaj Scharff, Visiting Scientist, University of Copenhagen. "Biogeography and Phylogeny of Spiny Orb-Weaving Spiders," with Jonathan Coddington, from February 1 to July 31, 1990.
- C. Lavett Smith, Visiting Scientist, University of Michigan. "Continuing Studies on the Systematics, Habitat Preferences, and Vertical Distribution of Several Poorly Known Species of Coryphopterus Gobies and Apogou Cardinal Fishes on the Drop-Off Reef," with James C. Tyler, from November 1, 1989 to May 1, 1990.
- Deborah R. R. Smith, Visiting Scientist, Cornell University. "Isozyme and Mitochondrial DNA Analysis of Species in the Spider Genus Anelosimus," with Jonathan Coddington, from January 1 to December 31, 1990.

- Shelley L. Smith, Postdoctoral Fellow, University of Michigan. "Metrical and Morphological Variation of the Hand and Foot of Human and Non-Human Primate Skeletons," with Richard Potts, from September 4, 1990 to September 3, 1991.
- Clarke K. Speed, Graduate Student Fellow, University of Washington. "Order and Disorder: Swears and Adjudicational Performance Among the Landogo of Sierra Leone," with Ivan Karp, from June 25 to August 30, 1990.
- Youngbae Suh, Visiting Scientist, The University of Texas, Austin. "Molecular Phylogeny for Basal Angiosperms," with Elizabeth Zimmer, from August 15, 1990 to August 14, 1991.
- Rachel E. Tabachnick, Postdoctoral Fellow, University of Michigan. "A Morphometric Analysis of Environmental Variability and Population Structure in Recent Planktonic Foraminifera," with Brian Huber, from September 1, 1990 to August 31, 1991.
- Leonard B. Thien, Senior Postdoctoral Fellow, Tulane University, New Orleans. "Molecular Phylogeny and Genetic Structure of New Caledonian Winteraceae," with Elizabeth Zimmer and John Kress, from September 1, 1990 to August 15, 1991.
- Leslie E. Watling, Senior Postdoctoral Fellow, University of Delaware. "A Study of the Cumacea of the United States East Coast," with Thomas Bowman, from January 15 to June 14, 1990.
- Patricia A. Wattenmaker, Postdoctoral Fellow, University of Michigan. "Political Centralization and Household Economic Reorganization: A Faunal Study," with Robert McC. Adams, from November 20, 1989 to November 19, 1990.
- Debra A. Willard, Postdoctoral Fellow, University of Illinois, Urbana-Champaign. "Morphological Analysis of Compression Lycopods: Implications for Phylogenetic Relationships Among the Lepidodendrales," with William DiMichele, from January 1 to December 31, 1990.
- Zhaoran Xu, Postdoctoral Fellow, Sun Yat-sen University, China. "Revision of Paraboea (Gesneriaceae)," with Laurence Skog, from June 15, 1990 to June 14, 1991.
- Zhaoran Xu, International Exchange Visitor, Sun Yat-sen University, China. "Revision of Rhytidophyllum and Paraboea," with Laurence Skog, from December 11, 1989 to June 10, 1990.
- Karen Zeller, Visiting Student, University of Cincinnati. "Determining the Phylogenetic Relationship of Humans and the Higher Primates," with Michael Braun, from January 1 to May 31, 1990.

NATIONAL PORTRAIT GALLERY

- David J. Steinberg, Predoctoral Fellow, University of Pennsylvania. "The Early Portraiture of Charles Willson Peale and its Relationship to English Painting, 1769-1775," with Lillian B. Miller, from January 1 to December 31, 1990.

OFFICE OF FOLKLIFE PROGRAMS

Kenneth M. Bilby, Postdoctoral Fellow, Johns Hopkins University. "The Art of Differing: A Study of Jamaican Maroon Oral Tradition," with Peter Seitel, from March 1, 1990 to February 28, 1991.

Guy W. Logsdon, Senior Postdoctoral Fellow, University of Oklahoma. "A Biblio-Discographical Guide to the Songs of Woody Guthrie in the Folkways Collection and Related Collections," with Anthony Seeger, from June 1, 1990 to May 31, 1991.

James W. Wafer, Postdoctoral Fellow, Indiana University. "Representations of the Indian in Candomble and the African Diaspora," with Anthony Seeger, from November 6, 1989 to January 5, 1991.

INTERNSHIPS AND OTHER APPOINTMENTS

The Smithsonian offers internships and other special appointments to undergraduate and graduate students and to museum professionals through its Office of Museum Programs. The interns included in this Appendix began their appointments between October 1, 1989, and September 30, 1990. Those who received special awards or participated in special programs are so listed. Wherever possible the home institution, a brief description of the project undertaken at the Smithsonian, and the dates of service are given.

TREASURER

BUSINESS MANAGEMENT OFFICE

Anne Bayly, High School Student, Georgetown Visitation. Museum Shop, assist with visual presentation development and installations in various museum shops and marketing areas. July 2, 1990 through August 31, 1990.

Shanan Campbell, Bachelors Candidate, Fort Lewis College. Product Licensing and Development, research and collection of images and information available, based on the Smithsonian's collections, for the purpose of identifying art and artifacts that have potential marketability either as independent reproductions, or as components of more comprehensive products (calendars or greeting cards). May 7, 1990 through September 1, 1990.

RESEARCH

INTERNATIONAL CENTER

Leslie Banker, Bachelors Candidate, Denison University. Office of Environmental Awareness, assist in the activities of the office, particularly with the distribution of its educational brochure, "A Better World Starts at Home". May 21, 1990 through July 6, 1990.

Nyani Colom, Bachelors Candidate, Fisk University.
Quincentenary, manage data base and assist with public relations. June 25, 1990 through August 17, 1990.

Misha Cornes, Bachelors Candidate, University of California-Davis. Office of International Relations, develop international activities reporting project. June 20, 1990 through August 10, 1990.

Patricia McJennett, Bachelors Candidate, Stanford University. Office of Environmental Awareness, assist in the study of environmental awareness at museums, zoos, and botanical gardens. April 4, 1990 through August 3, 1990.

Anna-Louise Molette, Bachelors Candidate, Morgan State University. Office of Environmental Awareness, assist director with relaying information to staff and public regarding the environment; research and data analysis. June 25, 1990 through August 17, 1990.

Madeline Nagy, Bachelors Degree. Office of Environmental Awareness, assist with the preparation of an exhibition being jointly developed with Smithsonian Institution Traveling Exhibition Services to be called "Garbage!" and with the other ongoing activities of the office. September 4, 1990 through June 28, 1991.

Heidi Nielsen, Bachelors Candidate, Ohio State University. Smithsonian/Man and the Biosphere, help prepare SI/MAB workshops; work on bibliography. June 11, 1990 through September 15, 1990.

JOSEPH HENRY PAPERS

Christopher Damrosch, Bachelors Candidate, University of Maryland. Conduct research on the Smithsonian Institution and the Civil War for a future volume of The Papers of Joseph Henry. June 4, 1990 through August 10, 1990.

Kimberly Marcucci, Bachelors Candidate, Smith College. Explore and establish the Smithsonian's role in international expositions. September 4, 1990 through December 21, 1990.

NATIONAL ZOOLOGICAL PARK

Jennifer Apple, High School Graduate. Golden Lion Tamarin Program, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.

Tammy Bieber, High School Graduate. Animal Health, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 7, 1990.

Harvey Etheredge, High School Student, Anacostia High School. Education, assist as liaison with DC Cultural Consortium Junior Culture Corps; help plan and host their visits. June 25, 1990 through August 17, 1990.

Michelle Fleet-Foster, Masters Candidate. Design and Exhibits, historic photo collection. June 4, 1990 through October 1, 1990.

Chandak Ghosh, Bachelors Candidate, Yale University. Mammology, conduct experiments which gauge the physiologic responses of cats in captivity. June 4, 1990 through August 24, 1990.

Rhenada Gomillion, High School Student, Dunbar High School. Education, assist as liaison with DC Cultural Consortium Junior Culture Corps; help plan and host their visits. June 25, 1990 through August 17, 1990.

Gretchen Gordon, High School Graduate. Department of Mammology, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Cheryl Gross, Bachelors Degree. Horticulture, inventory of trees at the National Zoological Park. June 7, 1990 through September 30, 1990.

Mary Grossman, Bachelors Candidate, Stockton State College. Research Department, assist with research and design of new kangaroo exhibit. January 29, 1990 through May 11, 1990.

Jennifer Henle, High School Graduate. Department of Invertebrates, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Kevin Hoover, High School Student, Rabaut Junior High School. Facilities Management, assist landscape architects with maintaining plant life and beautification of exhibition areas. July 2, 1990 through August 31, 1990.

Ann Mansolino, High School Graduate. Photography, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Montre McKinney, High School Student, Brookland. Facilities Management, assist with landscapes, maintaining plants life and beautification of exhibition areas. July 2, 1990 through August 31, 1990.

Courtney-Paige Morrison, Bachelors Candidate, Brown University. Zoological Research, seal data entry and analysis. September 4, 1990 through November 21, 1990.

Steven Neumann, Bachelors Candidate, American University. Design and Exhibits Planning, archiving NZP photo collection. October 16, 1989 through May 31, 1990.

Stoyan Popov, High School Student, Wilson High School. Small Mammal House, work alongside animal keeper, carrying out a prescribed daily schedule of animal area cleaning and of preparing and distributing food; help maintain animal enclosure materials (plants, perches, etc.). June 18, 1990 through August 10, 1990.

George Reyes, High School Graduate. Education, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Suzanne Sanders. Education, educational outreach programs for schools in the local area. May 29, 1990 through May 31, 1991.

F. Yvonne Schulman, Doctor of Veterinary Medicine. Pathology, residency in exotic animal veterinary pathology. July 2, 1990 through July 3, 1992.

Leslie C. Sharkey, PhD, Ohio State University. Pathology, trainee in exotic animal veterinary pathology. June 18, 1990 through September 28, 1990.

David Sturtevant, High School Student, St. Albans School. Facilities Management, assist landscape architects with maintaining plant life and beautification of exhibition areas. July 2, 1990 through August 31, 1990.

Crystal Trotter, High School Graduate. Primate House, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.

OFFICE OF THE ASSISTANT SECRETARY FOR RESEARCH

Michael Helling, Bachelors Degree. Edit and research a volume on the Biology of Mt. Graham. July 30, 1990 through December 30, 1990.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

David Amber, Bachelors Degree, University of Virginia. The effect of phosphorus limitation on nitrogen consumption in freshwater tributaries. September 3, 1990 through November 9, 1990.

Martin Brown, Bachelors Degree, McGill University. Forest canopy studies. July 30, 1990 through October 19, 1990.

Govind Joseph Chakrapani, Graduate Degree, Jawaharlal Nehru University, India. Release of nutrients from subtidal sediments. May 7, 1990 through August 17, 1990.

James Enright, Bachelors Degree, Universitat des Saarlandes. Nutrient retention and cycling in cropland riparian forests. August 20, 1990 through November 2, 1990.

Sarah Eppley, Bachelors Candidate, University of California-Santa Cruz. Effects of elevated atmospheric carbon dioxide on nitrogen fixation in Xcirpus olney. July 2, 1990 through September 21, 1990.

Kirsten Evans, Bachelors Candidate, University of California-Santa Cruz. Community structure and population dynamics of phytoplankton in an estuary. June 25, 1990 through August 31, 1990.

Scott Godwin, Bachelors Candidate, Florida Institute of Technology. Studies in ecological parasitology. June 11, 1990 through September 21, 1990.

Laurie Griffiths, Bachelors Candidate, University of Miami. Global changes and vegetation: the impact of rising atmospheric carbon dioxide on plant and ecosystem process. May 28, 1990 through August 3, 1990.

Brian Hudgens, Bachelors Candidate, Pomona College. Nutrient retention and cycling in cropland riparian forests. May 21, 1990 through August 24, 1990.

Julia Kerrigan, Bachelors Candidate, University of Georgia, Athens. Forest Canopy Studies. April 30, 1990 through August 3, 1990.

- Danielle Levitan, Bachelors Candidate, University of Maryland.
Revising the Discovery Trail and the Beaver Trail, updating the existing slide show, making a video tape of SERC as an introduction to what the center offers that can be viewed here or sent out. June 4, 1990 through August 10, 1990.
- Shannon Loux, Bachelors Degree, Hiram College. Edgewater,
interactions between plants and mammals in a forest ecosystem. October 2, 1989 through June 1, 1990.
- Markus Meier, Bachelors Degree, Federal Technical University, Zurich, Switzerland. Acid deposition and its impact upon geochemistry. October 30, 1989 through April 28, 1990.
- Heather Roffey, Bachelors Candidate, Wellesley College.
Estuarine Fish Biology. May 21, 1990 through August 24, 1990.
- Katherine Wakelee, Bachelors Degree, Occidental College.
Studies in ecological parasitology and population dynamics of benthic invertebrates. September 10, 1990 through December 7, 1990.
- Zenah Wilson, Bachelors Degree, Johns Hopkins University.
Historical research of land use in the SERC area. June 4, 1990 through August 24, 1990.

SMITHSONIAN INSTITUTION ARCHIVES

- Carol Dillon, Bachelors Candidate, James Madison University. Archives, survey Science Series Records in the National Museum of American History and the Smithsonian Institution Archives. December 18, 1989 through January 5, 1990.
- Alexander Magoun, Masters Degree, University of Maryland. Videohistory project, process up to 4 videohistory interviews in the history of science and technology. Processing includes: audit checking, copy-editing, time-coding, and abstracting visual data. Will prepare final copy and finding aid. November 13, 1989 through May 15, 1990.
- Alexander Magoun, Masters Candidate, University of Maryland. Videohistory, processing and editing videohistory materials. September 2, 1990 through May 31, 1991.
- Nancy McRaney, Bachelors of Arts. Analysis and treatment of flat paper object; preservation survey of archival holdings. January 29, 1990 through June 1, 1990.
- Sandee Yuen, Bachelors Candidate, The American University. Organize and describe a collection of Smithsonian architectural drawings and enter information into a database. May 25, 1990 through August 31, 1990.

SMITHSONIAN INSTITUTION LIBRARIES

- Laura Bernstein, Bachelors Candidate, Cornell University. SOA Library, converting manual circulation files to online. June 4, 1990 through August 15, 1990.
- Heather Clay, Bachelors Candidate, Middlebury College. Anthropology Library, convert manual charges to online. June 13, 1990 through July 21, 1990.

- Carrie Guagliardo, High School Graduate. Museum Reference Center, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Patricia Moore, Masters Degree. Dibner Library, develop and find guide to the SIL's collection of missionary Bibles, some in unique Indian languages. July 3, 1990 through July 3, 1991.
- Birgit Prella, Masters Candidate, University of Maryland. Learn fundamentals and gain experience in processing official records by processing the records of the Department of Social and Cultural History, 1968-1979, of the American History Museum. September 2, 1990 through December 21, 1990.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- Luis Acosta, Bachelors Candidate, Universidad Nacional de Colombia. Naos, Effects of oil pollution of Corals reproduction. April 6, 1990 through July 6, 1990.
- Denise Alvarez, Bachelors Candidate, University of Panama. Naos, Energy content of eggs of neotropical reef fishes. January 15, 1990 through July 15, 1990.
- Victoria Arias, Masters Degree, University of Panama. Barro Colorado Island, physiology of tropical plants, particularly on those on Barro Colorado Island. February 5, 1990 through April 5, 1990.
- Mirianela Arrunategui, Bachelors Candidate, Universidad Nacional de Panama. Naos Lab, Benthic survey of the Laguna de Chiriqui and adjacent shelf, Western Panama. July 2, 1990 through September 30, 1990.
- Hamilton Beltran, Bachelors Candidate, Universidad Nacional Mayor de San Marcos. Barro Colorado Island, Re-census, after a 5 year interval, the fate of 250,000 free-standing woody plants in an area of 1/2 square kilometer on Barro Colorado Island. April 11, 1990 through July 11, 1990.
- Federico Bolanos, Bachelors Candidate, Universidad de Costa Rica. Gamboa, Why do female tungara frogs *Physalaemus pustulosus* find complex calls more attractive than simple calls: a search for the sensory basis for sexual selection. May 15, 1990 through July 31, 1990.
- Eddar Brunetti, Bachelors Candidate, Universidad Central de Venezuela. Naos, Morphologic and genetic differences of *Porites* across the Isthmus of Panama. April 6, 1990 through July 6, 1990.
- Magnolia Calderon, Bachelors Candidate, University of Panama. Naos, assistant to Dr. Laurel Collins on her research on fossil and modern foraminifera. January 22, 1990 through April 22, 1990.
- Dinorah Calvillo, Bachelors Degree, Universidad de Panama. San Blas/Naos Lab, population of the Coral *Manicina areolata*, near the San Blas area. July 1, 1990 through September 30, 1990.

- Carmen Galdames, Bachelors Candidate, University of Panama. Tupper, study of shrubby and herbaceous plants of the Campana National Park. January 22, 1990 through May 5, 1990.
- Adalberto Gomez, Bachelors Candidate, University of Panama. Barro Colorado Island, relate mother fig pollinating wasp's size to the number of viable fig seeds that it pollinates. October 16, 1989 through January 14, 1990.
- Maritza Gutierrez, Museum Professional, National Museum of Costa Rica. NAOS, The Analysis of archaeological fish bone samples from two sites in Guanacaste, Costa Rica. May 15, 1990 through August 15, 1990.
- Marla Johnston, Bachelors Candidate, University of Panama. Tupper, biosystematic study of the genus Octoblepharum and the moss flora of BCI. January 22, 1990 through April 22, 1990.
- Jose Lasso, Bachelors Candidate, Universidad de Panama. Barro Colorado Island, Chemical ecology of an understory shrub and how genetic and environmental variation in chemical defenses affects plant fitness. April 9, 1990 through July 9, 1990.
- Alberto Leon, Bachelors Degree, Universidad de Costa Rica. Oil Spill Project. August 15, 1990 through November 15, 1990.
- Juan Mate, Bachelors Candidate, Universidad de Panama. Naos, testing for natural selection on corals: patterns of skeletal morphology, fertility, and genetic variation in natural populations of Manicina areolata. October 23, 1989 through April 15, 1990.
- Monica Medina, Bachelors Candidate, Universidad de los Andes. Naos Marine Laboratory, genetics and evolution of marine organisms. December 1, 1989 through February 28, 1990.
- Monica Medina, Bachelors Candidate, Universidad de Panama. Naos, Genetic analyses of three species of birds with both mainland and island populations in Panama. March 26, 1990 through June 26, 1990.
- Kira Mills, Bachelors Candidate, University of Kansas. Gamboa, female choice of the tungara frog. May 29, 1990 through August 8, 1990.
- Maria Molino, Bachelors Candidate, Universidad de Panama. Marine Laboratory, rates and patterns of molecular divergence in transisthmian species pairs. October 23, 1989 through April 23, 1990.
- Guiselle Mora, Bachelors Candidate, Universidad de Costa Rica. Marine Laboratory, extraction, analysis, and identification of phytoliths in soils of the central Amazon basin. November 1, 1989 through April 30, 1990.
- Edgar Munoz, Bachelors Degree, Universidad Estatal de Cuenca. Barro Colorado Island, seed-dispersal and predation of Scheelea Zonensis (Arecaceae) by neotropical rodents in Panama. July 15, 1990 through October 15, 1990.
- Marlon Olmos, Bachelors Candidate, Universidad de Panama. ANCON, synchronized calling in Centrolenella granulosa and Smilisca sila (Amphibia, Anura). October 16, 1989 through April 15, 1990.

- Manoel Pacheco, Bachelors Candidate, University of Illinois. Barro Colorado Island, pollination and reproductive phenology of Poulsenia armata. October 23, 1989 through January 7, 1990.
- Martha Prada, Bachelors Degree, Universidad Jorge Tadeo Lozano. Naos, Oil Spill Project: Subproject on the mangrove forest section. February 12, 1990 through May 12, 1990.
- Alfredo Reyes, Bachelors Candidate, Universidad de Panama. Barro Colorado Island, how tropical forest plants maximize carbon gain in the face of periodic water limitation. October 16, 1989 through January 14, 1990.
- Axioni Romero, Masters Degree, Instituto Hidrometeorologico de Odesa. Galeta, "A Century of Environmental Impacts in the Central Caribbean Coast of Panama: Reconstruction based on Sclerochronology". July 1, 1990 through September 30, 1990.
- Aleida Salazar, Bachelors Candidate, Universidad de La Habana. Barro Colorado Island, ecological consequences of structure-physiology of cotyledons through comparison of various tropical woody species. April 30, 1990 through July 30, 1990.
- Amelia Sanchez, Bachelors Candidate, Escuela Superior Politecnica del Litoral. Naos, Archeology Lab, analysis of Fish Bones from Salango, Ecuador. August 15, 1990 through December 15, 1990.
- Luis Solorzano, Bachelors Candidate, Universidad de Colombia. Marine Laboratory, series of mating experiments between alpheid shrimp from opposite sides of the Isthmus of Panama. December 1, 1989 through July 19, 1990.
- Denise Thorin B., Bachelors Candidate, Universidad de los Andes. Barro Colorado Island, consequences of leaf lifetime for photosynthetic physiology, secondary metabolism, and anatomy in tropical plants. October 15, 1989 through January 15, 1990.
- Ernesto Yallico, Bachelors Degree, Universidad Nacional Agraria La Molina. Barro Colorado Island, Forest Dynamic Project (50 h. of forest in Barro Colorado Island). February 2, 1990 through May 2, 1990.

MUSEUMS

ANACOSTIA MUSEUM

- Debra Bazemore, High School Student, Dunbar Senior High School. Research, learn conservation techniques; catalogue artifacts; other duties as assigned. June 25, 1990 through August 17, 1990.
- Sharetta Billings, High School Student, Archbishop Carroll High School. Research, assist with the research of new art exhibit, maintain files, and respond to phone requests. July 2, 1990 through August 31, 1990.

Nicole Freeman, High School Student, Eastern High School.. Office of Education, assist with clerical tasks, tours of the exhibit; assist curator of upcoming art exhibition in classifying slides and other tasks. June 25, 1990 through August 10, 1990.

Cheryl Gibson, High School Graduate. Office of Education, OESE Intern 90 , assist with museum's summer urban science camp. June 4, 1990 through July 6, 1990.

William Hadley, Bachelors Candidate, Massachusetts College of Art. Office of Exhibits, Fabrication, installation of exhibit components in conjunction with museum's exhibition on "Whose Art Is It , Anyway?". June 26, 1990 through August 2, 1990.

Regina Medley, High School Student, Woodrow Wilson High School. Research, catalogue artifacts, learn conservation techniques, and perform other duties as assigned. June 25, 1990 through August 17, 1990.

Hedimo Santana, Bachelors Candidate, Universidade Federal da Bahia, Salvador, Ba. Produce a resource guide and assist with planning of public programs in conjunction with the Anacostia Museum Quincentenary Project. September 1, 1990 through December 31, 1990.

Michelle Sommer, Bachelors Candidate. Office of the Registrar, accessioning, condition reports, and loans for "The Real McCoy" and "Whose Art is it, Anyway". June 6, 1990 through August 20, 1990.

ARCHIVES OF AMERICAN ART

Kathleen Best, Masters Candidate, University of Maryland. Assist in study of archives interaction with beginning researchers. June 25, 1990 through September 17, 1990.

Tracy Caisse, Bachelors Candidate, University of Massachusetts. Curatorial, prepare collection descriptions for publication in a guide to French-American sources in the Archives of American Art. January 22, 1990 through May 5, 1990.

Jennifer Kleiner, Bachelors Candidate, University of Maryland. Identify Archives collections that document the crafts and prepare descriptions of same for publication in a guide. September 4, 1990 through December 30, 1990.

Christine Murphy, Bachelors Candidate, Gallaudet University. Archives, preparation of descriptions of selected archive holdings for inclusion in a guide to French-American sources in the Archives of American Art. January 18, 1990 through May 3, 1990.

Elizabeth Watson, Bachelors Candidate, University of California, Santa Cruz. Research archival collections and write descriptions concerning American artists in France. April 2, 1990 through June 15, 1990.

ARTHUR M. SACKLER AND FREER GALLERY OF ART

- Johanna Baker, Bachelors Candidate, Virginia Commonwealth University. Office of Exhibit Design, exhibit design assistant. June 18, 1990 through August 16, 1990.
- Michael Brodsky, Masters Candidate, Northwestern School of Law. Office of Education, Yokohama Learning Center supervisor, data base development, questionnaire development. June 19, 1990 through August 31, 1990.
- Melanie Carolan, Bachelors Candidate, University of Kansas. Office of Design, assist with the development and design of exhibitions. June 4, 1990 through August 1, 1990.
- Darida Chanachote, Masters Candidate, Catholic University of America. Library, descriptive cataloguing of Thai monographs. August 30, 1990 through December 21, 1990.
- Jing-Yu Chang, Masters Candidate, University of Maryland. Library/Archives, arrange and describe the John A. Pope papers. February 5, 1990 through April 27, 1990.
- Emily Edmondson, Bachelors Candidate, Occidental College. Educational/Curatorial, assist in research on Freer and Sackler objects of ancient Chinese art and organization of file data on those objects; assist in preparation of materials for teachers on the arts of China. September 20, 1990 through December 14, 1990.
- Naomi Fukumori, Bachelors Candidate, Harvard-Radcliffe College. Japanese Art, assist with compiling bibliographic materials in Japanese and English for upcoming exhibitions at the Freer and Sackler Galleries. June 4, 1990 through August 2, 1990.
- Mimi Games, Bachelors Degree, Smith College. Office of Education, oversee Yokohama Learning Center programs; assist in programmatic planning and research for "The Arts of China" exhibition. May 29, 1990 through September 9, 1990.
- Bonnie Garmisa, Masters Candidate, George Washington University. Office of Education, work on Teacher Workshops and Outreach Materials. January 16, 1990 through April 28, 1990.
- Jessica Hallett, Masters Candidate, Oxford University. Islamic Art, assist with research on 19th century collection of Islamic art in Paris. July 15, 1990 through August 30, 1990.
- Kyung-Min Han, Masters Candidate, George Washington University. Library, survey the present Sackler Library collection, recommend future library acquisitions, and provide access for researchers to the materials existing on Korean art, analyze scholarly journal articles. June 4, 1990 through August 31, 1990.
- Anne Hoppe, Bachelors Candidate, Washington University. Library, research Asian artists life, dates, and genres with subsequent data entry. May 21, 1990 through August 24, 1990.
- Allison Karmel, Bachelors Candidate, Brown University. West Asian Art, primary research on near eastern collection. July 5, 1990 through August 17, 1990.

Virginia Krebs, Bachelors Candidate, College of William and Mary. Public Affairs, set up archives for general gallery clippings; bring exhibition archives up to date; and assist in administering and tabulating a visitor survey. July 23, 1990 through September 1, 1990.

Monisha Kumar, Bachelors Candidate, University of Virginia. Public Affairs, photo research, photo files, compile publicity archives for Sackler exhibitions: "The Noble Path: Buddhist Art of South Asia and Tiber" and "India Along the Ghanqis". May 2, 1990 through August 31, 1990.

Thomas Lauderdale, Bachelors Candidate, Harvard College. South Asia, research on exhibition "Court Arts of Indonesians" opening in the summer of 1991. June 28, 1990 through September 30, 1990.

Debbie Lawrence, Bachelors Candidate, Princeton University. Administration, organize files of the former director for archives; explore warehouse options for the Freer/Sackler. August 6, 1990 through September 6, 1990.

Jenny Lin, High School Student, National Cathedral School. Office of Education, support in Learning Center, for public programs; general office work. August 20, 1990 through June 30, 1991.

Jeanne Lynn, Bachelors Candidate, Harrington Institute. Design and Production, assist with inventory of furniture and equipment in Sackler/Freer; assist with design layout of design/publication department; develop of office furniture and finish/construction documents. June 14, 1990 through August 17, 1990.

Jason Neelis, Masters Candidate. Office of Education, Yokohama Learning Center/ Indonesia exhibition. June 7, 1990 through August 30, 1990.

Oya Pancaroglu, Bachelors Candidate, Georgetown University. Textiles, help identify and classify newly acquired collection of textiles from India. June 6, 1990 through July 13, 1990.

Ilona Rand, Bachelors Candidate, Smith College. Curatorial, compilation of research materials related to the paintings of Thomas Wilmer Dewing in the Freer Gallery of Art; other research. June 11, 1990 through July 13, 1990.

Nicole Rousmaniere, Bachelors Degree, Harvard University. Ceramics, work towards a creation of a database of sherds collected from Kyushu, Japan in the study collection. July 3, 1990 through September 10, 1990.

Marcus Sohn, Bachelors Candidate, University of Maine. Office of Education, work in exhibition Learning Center. June 1, 1990 through September 9, 1990.

John Summerford, Masters Candidate, George Washington University. Design and Production, an immersion into the hands on processes involved in putting together an exhibition at a major institution; an overview of the conceptualization and organization of special and permanent exhibitions. July 30, 1990 through October 26, 1990.

CONSERVATION ANALYTICAL LABORATORY

- Karen Andelman, Bachelors Degree. Archaeometry: Materials Science Laboratory, Analysis of archaeological ceramics and glasses. October 3, 1989 through November 28, 1989.
- Bonnie Halvorson, Masters Candidate, University of Alberta. Textiles Conservation Laboratory, Examination, condition reporting, minor treatment, re-storage, and research on a large collection of 19th century wool flags. June 4, 1990 through August 10, 1990.
- Emily Klayman, Masters Candidate, SUNY Buffalo. Paper Conservation Laboratory, Research into effects of solvents on transparent papers; treatment work involving stain or adhesive reduction. June 4, 1990 through August 10, 1990.
- Eileen Lynch, Bachelors Degree. Paintings Conservation Laboratory, Pre-program internship in painting conservation. October 28, 1989 through June 29, 1990.
- Nancy McRaney, Bachelors Degree. Paper, Textiles, Furniture, and Paintings Conservation Laboratories, Pre-program internship in conservation treatment and research. June 1, 1990 through May 31, 1991.
- Alfonse Mendibe, Museum Professional, Royal Institute of Artistic Patrimony. Paintings Conservation Laboratory/Research, Chemical research on effects of cleaning solvents on oil paintings. September 24, 1990 through July 12, 1991.
- Danielle Nguyen, Bachelors Degree. Paper Conservation Laboratory, Conservation condition survey and rehousing project of a photographic collection stored at the Smithsonian Archives. September 24, 1990 through March 1, 1991.
- Rebecca Rudolph, Bachelors Candidate, University of Alabama. Textile Conservation Laboratory, Examination, condition reporting, minor treatment, re-storage, and research on a large collection of 19th century wool flags. June 4, 1990 through August 10, 1990.
- Laurence Ullmann-Glass, Masters Candidate, SUNY Buffalo. Paintings Conservation Laboratory, Assistance with project to determine the effects of various solvents on paint films; and other ongoing laboratory activities. September 17, 1990 through September 16, 1991.
- John Vitagliano, Bachelors Degree. Paper Conservation Laboratory, Ongoing conservation research and treatment activities. October 30, 1989 through June 30, 1990.

COOPER-HEWITT MUSEUM OF DESIGN AND DECORATIVE ARTS

- Britt Chemla, Bachelors Degree, McGill University. Programs, assist with planning and implementation of educational programs. June 11, 1990 through August 31, 1990.
- Suany Lee Chough, Bachelors Degree, Dartmouth College. Exhibits, assist in preparation for forthcoming exhibitions--research, write, report on subject at hand--primarily maps. June 11, 1990 through August 31, 1990.

- Sue Ann Chui, Bachelors Candidate, Vassar College. Drawing and Design, various projects related to the forthcoming exhibition on Donald Dekey, American 20th-century designer. December 22, 1989 through February 1, 1990.
- Laura Creswell, Bachelors Candidate, Mary Baldwin College. Registrar, learn museum registration methods by assisting staff in a wide range of duties and the records pertaining to all such objects and transactions; record current location and inventory date. June 4, 1990 through August 10, 1990.
- Candace Gibbons, Bachelors Degree, University of Sydney. Development, foundation research-database creation. June 18, 1990 through July 5, 1990.
- Amy Gristede, Masters Candidate, Marymount Manhattan. Library, Organize and itemize SIL-CHM auction catalogs. December 4, 1989 through January 12, 1990.
- Barbara Hered, Bachelors Degree. Drawings and Prints, research on the Cooper-Hewitt bandbox collection; assemble bibliography and do research on the history of art museums in the United States. January 26, 1990 through May 26, 1990.
- Dorian Karchmar, Bachelors Candidate, Wesleyan University. Drawing and Prints, inventory projects in Miller House and in drawings and prints relating to permanent collection. June 11, 1990 through August 31, 1990.
- Juliet Koss, Bachelors Degree, Columbia College. Decorative Arts, assist with research and preparations for upcoming exhibitions on CHM collections and involvement with other decorative arts department activities. June 11, 1990 through August 31, 1990.
- Marlene Mancini, Bachelors Degree, Bank Street College of Education. Programs, observe public gallery tours and evaluate them; develop a "hands-on" mansion tour; and learn the operations of an education department. January 31, 1990 through May 30, 1990.
- Arija Mortlock, Bachelors Candidate, State University of New York-Purchase. Drawing and Prints, various inventory projects relating to Donald Delrey; poster collections; etc. June 11, 1990 through August 17, 1990.
- Justine Olsen, Museum Professional, Auckland Museum. Decorative Arts, general curatorial duties, with special emphasis on the "Legacy" exhibition. September 17, 1990 through September 30, 1991.
- Nina Shapley, Bachelors Candidate. Photo Services, photo archive maintenance; liaison with publications department on Cooper Union project; assist with photo services operations. June 11, 1990 through August 10, 1990.
- Timothy Sullivan, Bachelors Candidate, Hunter College. Decorative Arts, departmental research and assistance in preparation of exhibition, cataloging, and special projects. February 14, 1990 through June 30, 1990.

- I.N. van Vessuu, PHD, University of Amsterdam. Exhibitions, assist in preparation of a project (exhibition, book, programs, and related components) on maps, scheduled for fall, 1991; aspects include research, documentation, and assistance in day-to-day administration. September 17, 1990 through January 15, 1991.
- Trudy Wake, Masters Candidate, New York University. Exhibitions, research for maps exhibitions. January 23, 1990 through March 23, 1990.
- Christine Weiss, Bachelors Candidate, Muhlenberg College. Exhibitions, research for "Global Image"--CHM quincentenary exhibition. June 11, 1990 through August 31, 1990.
- Megan Winget, Bachelors Degree, University of Georgia. Drawings & Prints, Inventory of Posser collection. June 11, 1990 through August 31, 1990.
- Anne Woodworth, Masters Candidate, Parsons School of Design-Cooper Hewitt. Wallpapers and wallcoverings, wallcoverings exhibition research. July 16, 1990 through August 31, 1990.

EXPERIMENTAL GALLERY

- Edgar Davis, Masters Candidate, Howard University. Program development-schedule and present programs related to exhibition; assist in coordinating entrance video wall. June 4, 1990 through August 17, 1990.
- Stephanie Gilliam, Masters Candidate, Catholic University of America. Exhibition design: assist gallery staff in developing exhibition design and layout for the introductory media production; assist in the production of exhibition development. September 10, 1990 through December 15, 1990.
- Jocelyn Wolfe, Bachelors Candidate, Syracuse University. Exhibition scheduling: confirming and scheduling exhibitions from outside organizations and inside SI bureaus; assist in arrangements related to team residences, shipping, and delivery schedules. July 23, 1990 through August 17, 1990.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

- Anita Haldemann, Bachelors Degree, University of Bern, Switzerland. Education, work on ongoing projects and problems. June 4, 1990 through October 8, 1990.
- Ginger Haydon, Masters Candidate, New Mexico State University. Education, work on ongoing projects and problems. June 4, 1990 through August 10, 1990.
- Alexandra Lehovich, High School Student. Photo Services Laboratory, assist the director of photo services with the processing and printing of negatives, the filing of photographs, and the day to day services provided by the department, use a word processor. June 11, 1990 through September 30, 1990.

Megan Smetzer, Bachelors Candidate, Smith College. Painting and Sculpture, work on a project of Willem de Koonig. September 4, 1990 through December 21, 1990.

NATIONAL AIR AND SPACE MUSEUM

Stephanie Baynham, Bachelors Candidate, Texas A&M University. Office of the Registrar, assist staff with object location verification, update and verify data on CIS system, coordinate with the office of Automation and Collections Maintenance staff, identify problem records. June 11, 1990 through August 11, 1990.

Sheila Bless, Bachelors Candidate, Mankato State University. Archives Unit, Garber Facility, aid in the description, arrangement, rehousing, and preservation tasks to make archival document collections more accessible for research use. June 11, 1990 through August 17, 1990.

Marc Buursink, Bachelors Candidate, University of Virginia. Aeronautics, assist curatorial staff in working with World War I flight materiel collection, will research, initiate correspondence, and accession artifacts for a new exhibition gallery. June 11, 1990 through August 17, 1990.

Jill Caspari, Bachelors Candidate, University of Maryland. Development, conduct survey of NASM's senior management staff; promote special events. June 11, 1990 through August 12, 1990.

Gregory Coleman, Bachelors Candidate, Indiana State University. Center for Earth and Planetary Studies, assist with the Smithsonian Satellite Atlas of the World project; plot footprints, digitize map data entry, draft simple map figures, file, catalogue, and conduct background research. June 11, 1990 through August 17, 1990.

Romon Danley, High School Student, Largo Senior High. Collections Management, perform tasks of a technical nature in support of NASM's collections maintenance program and/or the preservation/restoration program. June 19, 1990 through August 31, 1990.

Nicole Dickerson, High School Student, Ballou Senior High School. Space History, work with primary source materials dealing with the technology of manned spaceflight in order to organize and prepare research materials for archival records. June 20, 1990 through August 31, 1990.

Theodore DiVito, Bachelors Candidate, University of Maryland. Archives, aid staff in describing, arranging, and rehousing archival document collections to make them more accessible for research use. June 11, 1990 through August 17, 1990.

Sarah Donald, High School Graduate. Exhibits, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

- Jeana Foley, Bachelors Candidate, Transylvania University. Office of the Registrar, research files of accessioned objects in Aeronautics and Space History; pull original condition/restoration documents and replace with photocopies in curatorial files. June 11, 1990 through August 17, 1990.
- Heather Greenwald, Bachelors Candidate, Purdue University. Space History, assist curator in developing "Where Next, Columbus?" exhibition on the prospects for exploring new worlds in space in the next 500 years. June 11, 1990 through August 17, 1990.
- Jennifer Grimes, High School Student, Wilson High School. Langley Theatre, assist theatre staff with scheduling, film projection, usher scheduling, general theatre administration, and crowd control. July 2, 1990 through August 31, 1990.
- Michael Groves, Bachelors Candidate, Embry-Riddle Aeronautical University. Garber Facility, assist in the restoration and preservation of aircraft and spacecraft using metal and wood working skills. May 29, 1990 through August 17, 1990.
- John Hargenrader, Bachelors Candidate, Clarion University. Archives, Garber Facility, aid in description, rehousing, and preservation tasks to make archival document collections more accessible for research use. June 11, 1990 through August 17, 1990.
- Max Hernandez, High School Student, Northwestern High School. Collections Management, perform tasks of a technical nature in support of NASM's collections maintenance program and/or the preservation/restoration program. July 2, 1990 through August 31, 1990.
- DesJuan Hinton, High School Student, Gwynn Park High School. Engineering, pick-up, sort, and distribute mail, packages; maintain inventory of office supplies, re-stock supplies as necessary; maintain storage areas; audit work areas for furnishings and equipment as assigned. June 25, 1990 through August 31, 1990.
- Grey Hobbins, High School Student, Langdon School. Preservation/Restoration Unit, Garber, aid craftpersons in the cleaning and restoration of various artifacts. June 11, 1990 through August 3, 1990.
- Jeffery Hunt, High School Graduate. Education Resource Center, participant in Intern 90, OESE's national summer internship program. June 4, 1990 through July 6, 1990.
- Roy Hylaman, Bachelors Candidate, George Mason University. Archives, aid staff in describing, arranging, and rehousing archival document collections to make them more accessible for research use. June 11, 1990 through August 17, 1990.
- Andrew Johnston, Bachelors Candidate, George Washington University. Office of Education, assist training assistant with the museum's new science demonstration project, a series of 20-minute gallery demonstrations focusing on the science of air and space flight. May 14, 1990 through July 27, 1990.

- Andrew Johnston, Bachelors Candidate, George Washington University. Center for Earth and Planetary Studies, assist in production of NASM's book of satellite images of the world. September 4, 1990 through December 7, 1990.
- Kathryn Jones, Bachelors Candidate, Vassar College. Office of Education, assist training assistant with the new science demonstration project, demonstrations focusing on the science of air and space flight. June 11, 1990 through August 17, 1990.
- Monica Jordan, Bachelors Candidate, Florida State University. Office of Education, research and write the first NASM intern handbook and work with the in-house editor to write and produce the book, also help plan and facilitate family programs for visitors. June 11, 1990 through August 4, 1990.
- James Kohan, Bachelors Candidate, Hiram College. Archives, Garber, aid in description, arrangement, rehousing, and preservation tasks to make archival documents more accessible for research use. June 11, 1990 through August 17, 1990.
- Benjamin Kristy, Bachelors Candidate, Macalester College. Aeronautics, assist curatorial staff in working with World War I flight materiel collection; research, initiate correspondence, and accession artifacts for a new exhibition gallery. June 11, 1990 through August 17, 1990.
- Sharon Lee, High School Student, Bowie High School. Langley Theatre, assist theatre staff with scheduling, film projection, usher scheduling, general theatre administration, and crowd control. July 2, 1990 through August 31, 1990.
- John Lewis, Bachelors Degree, Texas A&M University. Garber Facility Preservation, Restoration Unit, Collections Management Division, work with NASM staff on the restoration of the Enola Gay. September 10, 1990 through December 10, 1990.
- Sharronne Lovett, High School Student, Bowie High School. Research, assist with the research and information for astronauts suits; conservation and documentation included. July 2, 1990 through August 31, 1990.
- Maria Martinez, Bachelors Candidate, Gallaudet University. Photo Lab, assist in photo lab with black and white photo printing and black and white reproductions. September 11, 1990 through December 10, 1990.
- Christopher Mills, Bachelors Candidate, Rhode Island School of Design. Exhibits Production Unit, Garber Facility, create scale models of major air and spacecraft in NASM's collections for use by blind visitors. June 11, 1990 through August 17, 1990.
- Dennis Mills, Masters Candidate, University of Colorado. Archives, assist with cataloging, preserving, and conserving projects dealing with the photographic collections; work with computer data bases. June 11, 1990 through August 17, 1990.
- Michael Moyles, High School Graduate. Office of Automation,

- participant in Intern 90, OESE's National summer internship program. June 4, 1990 through July 6, 1990.
- Lucia Munoz-Franco, Bachelors Candidate, University of Pennsylvania. Laboratory for Astrophysics, assist staff in an analysis of astronomical data on planets, star formation, novae, and active galaxies, and will participate in laboratory tests. June 11, 1990 through August 17, 1990.
- Sandra Narva, Bachelors Candidate, Franklin and Marshall College. Office of Education, assist education specialist with the development of science classroom materials, kits, and programs tailored to the needs of museum visitors, teachers, and students. June 11, 1990 through August 17, 1990.
- Allison Oaks, Bachelors Candidate, Harvard University. Communications, write Public Service Announcements and copy for newspaper calendar editors, the Smithsonian Torch, and the NASM events calendar; prepare staff news digest and assist in publicity with IMAX film, The Blue Planet. June 11, 1990 through August 17, 1990.
- Denise Peeler, High School Graduate. Archival Support Center, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Douglas Pippin, Bachelors Degree, University of Maryland. Exhibits, film research for new World War I gallery installation. September 10, 1990 through December 10, 1990.
- Lydia Reid, Bachelors Candidate, Washington and Lee University. Archives, assist with cataloging, preserving, and conserving projects dealing with the photographic collections; work with computer data bases. June 11, 1990 through August 17, 1990.
- Adam Reischman, High School, Walt Whitman Senior High School. Langley Theater, assist theater staff with scheduling, film projection, usher scheduling, general theater administration crowd control. October 30, 1989 through June 30, 1990.
- Matthew Rice, Bachelors Candidate, Maryland Institute College of Art. Photo Laboratory, assist staff in the day to day operation of a busy photo lab. June 11, 1990 through August 10, 1990.
- Kristine Sharp, Bachelors Candidate, University of Maryland. Exhibits, design and produce posters for NASM's lecture series. January 8, 1990 through April 7, 1990.
- Stephen Smith, Masters Candidate, Northwestern University. Space History, assist curator in developing "Where Next, Columbus?" exhibition on the prospects for exploring new worlds in space in the next 500 years. June 11, 1990 through August 17, 1990.
- Mary Jane Taylor, Bachelors Degree. Office of Education, research and design a family tour of the Paul Garber Facility focusing on "What is a Museum?". February 20, 1990 through June 1, 1990.
- Octaiva Thompson, High School Student, Wilson High School. Langley Theatre, assist theatre staff with scheduling, film projection, usher scheduling, general theatre administration, and crowd control. July 2, 1990 through

August 31, 1990.

- Maria Tichelman, Bachelors Candidate, George Washington University. Exhibits, design and produce posters for NASM's lecture series. January 8, 1990 through April 7, 1990.
- Maria Tichelman, Bachelors Candidate, George Washington University. Exhibits, design and produce brochures and posters using a variety of techniques. September 11, 1990 through December 14, 1990.
- Junco Ueda, High School Graduate. Space History/Office of Education, participant in Intern 90, OESE's national summer internship program. June 4, 1990 through July 6, 1990.
- David Vaughan, Bachelors Candidate, Baldwin-Wallace College. Center for Earth and Planetary Studies, process thermal infrared data from the Viking mission to Mars and prepare a two page abstract of the results. June 11, 1990 through August 17, 1990.
- Jamal Weans, High School Student, Potomac High School. Collections Management, perform tasks of a technical nature in support of NASM's collections maintenance program and/or preservation/restoration program. June 18, 1990 through August 31, 1990.
- Adam Wit, Bachelors Candidate, George Washington University. Aeronautics, assist staff in conducting research on basic technology for World War I gallery. September 10, 1990 through December 10, 1990.

NATIONAL MUSEUM OF AFRICAN ART

- Jame' Anderson, Bachelors Candidate, Wake Forest University. Photographic Archives, the project will include researching, writing descriptive captions, and recording classification codes for photographs from museum's present and past exhibitions; assist with daily activities. May 29, 1990 through August 17, 1990.
- Myron Briggs, Bachelors Degree. Archives, researching visual resources from southern and eastern Africa; assisting in the photographic laboratory. October 16, 1989 through January 15, 1990.
- Indra Caudle, Bachelors Candidate, Howard University. Object oriented research for Olowe exhibition and permanent collection. January 16, 1990 through April 8, 1990.
- Indra Caudle, Masters Candidate, University of Maryland. Curatorial, research assistant for permanent collection and special exhibition "Paramount Chiefs of Sierra Leone: Photographic Portraits by Vera Viditz-Ward. May 14, 1990 through August 3, 1990.
- Christa Clarke, Masters Candidate, University of Maryland. Curatorial, assist with research on the catalogue for the permanent collection. September 4, 1990 through December 21, 1990.
- Ann Eng, Bachelors Candidate, James Madison University. Publications, editing assistance for brochures, exhibition text; assistance in production of brochures, and fall

calendar. May 29, 1990 through August 3, 1990.

Laura Erdahl, Bachelors Degree, St. Olaf College. Photographic Archives, research and catalogue the Stanley Harris Collection of stereographs and other types of photographs from Zaire. September 4, 1990 through September 4, 1991.

Dara Gumbs, Bachelors Candidate, Brown University. Department of Education, work on film series and independent research. June 6, 1990 through August 17, 1990.

Madeleine Hexter, Masters Degree. Conservation, postgraduate internship in conservation. October 6, 1989 through October 6, 1990.

Julie Liu, Bachelors Candidate, Northwestern University. Photographic Archives, research, write descriptive captions, and classify photographs of African art and cultural history; catalogue the White Father's Mission photographs. June 18, 1990 through August 24, 1990.

Adrian Loving, Bachelors Candidate, Howard University. Office of Exhibits, assist with basic design activities related to museum exhibitions and museum publications. June 18, 1990 through August 24, 1990.

Katherine Mays, Bachelors Candidate, The American University. Associate Director, assist with the research and development of a catalogue of the permanent collection. September 10, 1990 through December 21, 1990.

Christine Postles, Bachelors Candidate, New York University. Curatorial, assume position of research assistant on permanent collection cataloging project and short-term exhibition related research as required. June 18, 1990 through July 24, 1990.

Natalie Robertson, Masters Candidate, Hampton University. Curatorial, Assist curator in preparing a catalogue for a traveling exhibit on Yoruba Art. January 16, 1990 through March 30, 1990.

Dana Rush, Bachelors Degree, Indiana University. Education, research gallery self-guides; develop and present concepts and write draft for self-guides for "Icons" and "Yoruba" exhibitions. January 29, 1990 through May 5, 1990.

Melinda Smith, Masters Degree. George Washington University. Registration, observe the registration department in its relationship to objects, records, and related museum staff and to work as a member of the registration/conservation team in preparing the museum's textile collection for proper storage and to assist in the unpacking and receipt of the museum's spring exhibition. February 7, 1990 through June 30, 1990.

Harriet Walker, Ph.D. Candidate, University of New Orleans. Department of Education, assist with research on tour and workshop development; test pre-school gallery activities; compile statistical reports on programs, assist with organization of education department's teaching collection. May 29, 1990 through July 27, 1990.

Celeste Wiley. Photographic Archives, assisting with the cataloguing of unaccessioned collections of West Africa, transferring negatives, slides, and films. October 2, 1989

through December 31, 1989.

NATIONAL MUSEUM OF AMERICAN ART

- Rachael Arauz, Bachelors Candidate, Wellesley College. Curatorial, assist on various aspects of the up-coming contemporary American Landscape photography exhibition. June 4, 1990 through July 27, 1990.
- Robin Bearden, Bachelors Degree, University of Virginia. Curatorial, assist in preparation for up-coming folk art exhibitions. June 4, 1990 through July 27, 1990.
- Holly Bloom, Bachelors Candidate, Syracuse University. Design and Production, assist in various aspects of the design and production office. June 4, 1990 through July 27, 1990.
- Marilucia Bottallo, Museum Professional, Museo de Arte Moderna de Sao Paolo. Registrar's Office, study the documentation systems in practical and theoretical points; how to adapt computer systems to a registrar department needs. September 12, 1990 through April 30, 1991.
- Shadonne Brown, High School Student, Elizabeth Seton High School. Office of Education, assist with public programs, correspondence, and information resources; maintain catalogue of public inquires and schedules for programs. July 2, 1990 through August 31, 1990.
- Mary Coffey, Bachelors Degree. Intern Programs, participate in the NMAA's advanced level museum training program. September 7, 1990 through March 1, 1991.
- Colleen Duke, Bachelors Candidate, University of Chicago. Museum Programs, assist on program development in NMAA's office of museum programs. June 11, 1990 through August 13, 1990.
- Sharon Emerson. Intern Programs, curatorial project with Richard Murray. September 7, 1990 through April 24, 1991.
- Sarah French, Bachelors Candidate, Kenyon College. Curatorial, assist in organizing information for the up-coming exhibition on the 1893 World's Columbian Exposition. June 4, 1990 through July 27, 1990.
- Lawna Gamble, Bachelors Candidate, Spelman College. Design and Production, assist in various aspects of the design and production office. June 4, 1990 through August 17, 1990.
- Constance Hatachette, High School Student, Madeira School. Photo and Slide Archives, dry-mounting photographs, filing. September 19, 1990 through May 31, 1991.
- Megan Hurst, High School Graduate. Office of the Registrar, participant in Intern 90, OESE's national summer internship program. June 4, 1990 through July 6, 1990.
- Nichole Jones, High School, Banneker Senior High School. Public Programs, assist with tasks pertinent to public programs, filing, xeroxing materials, answering phones, and meeting the public. December 4, 1989 through June 30, 1990.
- Laurie Lee, Bachelors Degree, University of Wisconsin-Madison. Intern Programs, participation in NMAA's advanced level museum training program. September 7, 1990 through December 7, 1990.

Deirdre Levine, Bachelors Degree, University of Colorado. Intern Program, participation in NMAA's museum training program. September 7, 1990 through December 7, 1990.

Eiko Maruyama-Grimes, Masters Candidate, George Washington University. Educational Programs Office, various educational projects. January 1, 1990 through April 26, 1990.

Carolyn McArthur, Bachelors Degree, University of New Mexico. Intern Program, participation in NMAA's advanced level museum training program. September 7, 1990 through April 27, 1991.

Linda McNamara, Bachelors Candidate. Intern Program, participation in NMAA's advanced level museum training program. September 7, 1990 through April 27, 1991.

Ronald Meek, Bachelors Degree, American University. Intern Program, participation in NMAA's advanced level museum training program. September 7, 1990 through April 27, 1991.

Jennie Padzieski-Novak, Bachelors Candidate, University of Michigan-Dearborn. Library, reclassification project (change from Dewey system to Library of Congress system), retrieving books, removing cards from card catalog, relabelling books, add price list to auction catalogs, file vertical file materials, bibliographic checking, shelve books. June 11, 1990 through July 27, 1990.

Elizabeth Peck, Masters Candidate, American University. Intern Program, participation in NMAA's advanced level museum training program. September 7, 1990 through April 27, 1991.

Nicole Pitts, Bachelors Candidate, Spelman College. Publication, assist in various aspects of the publications office. June 4, 1990 through August 17, 1990.

Gabriela Pohl, Masters Degree. Design, project split between Office of Museum Programs and office of Design and Production. January 15, 1990 through April 30, 1990.

Jennifer Rose, Bachelors Candidate, University of Michigan. Curatorial, assist in various aspects of the contemporary landscape photography exhibition. June 4, 1990 through July 27, 1990.

Paola Russi, Masters Degree, Indiana University. Curatorial, assist in research for the curator of graphic arts. June 20, 1990 through August 15, 1990.

Marika Sitton, Masters Candidate, George Washington University. Public Programs, assist with various programs: Ryder exhibit, docent training, visitor evaluation, label evaluation, "college" day, and other programs. January 18, 1990 through April 27, 1990.

Mary Widdifield, Bachelors Degree. Intern Program, participation in NMAA's advanced level museum training program. September 7, 1990 through April 27, 1991.

Greg Wilkins, Bachelors Candidate, Warren Wilson College. External Affairs, assist in various activities of the external affairs office. June 4, 1990 through July 27, 1990.

Telina Williams, High School Student, Coolidge High School. Educational Programs, assist as liaison with DC Cultural

Consortium Jr. Culture Corps; help plan and host their visits; assist with ongoing work of office; work with other museum offices as assigned. June 25, 1990 through August 17, 1990.

NATIONAL MUSEUM OF AMERICAN HISTORY

- Anna Albano, Bachelors Candidate, University of Maryland. Exhibit Design, assist designers in the preparation of exhibit display; participate in the conception, execution, and production of a variety of projects that will vary in size and complexity. June 4, 1990 through August 31, 1990.
- Joan Amick, Bachelors Degree. American Quarterly, copy editor for the American Quarterly; and researcher in the Division of Community Life, focusing on Children's Literature from 1945-1965, in conjunction with the exhibit: "This is your Childhood, Charlie Brown: Children and American Culture, 1945-1968". September 24, 1990 through December 20, 1990.
- Lisa Balcazar, Mount Vernon College, Bachelors Candidate. Graphic design and publication, participate in all three major areas of publication department, including creation, production, and inventory management of publications. Emphasis will be placed on utilizing graphic design skills in desktop publishing. January 29, 1990 through April 25, 1990.
- Michael Bartos, Bachelors Degree, University of Illinois. Political History, assembling information on the Becker Publication regarding presidential campaigns since Theodore Roosevelt. October 5, 1989 through January 30, 1990.
- Marta Bechhoefer, Bachelors Degree, Cornell University. Education, design educational programs and materials for the Columbian Quincentenary project, American Encounters. September 17, 1990 through December 21, 1990.
- Julie Berebitsky, Masters Candidate, George Washington University. Social/Cultural History Division of Domestic Life, an analysis of appliance advertising directed at women during the 1930's -50's to determine what the advertisers were saying about the average woman's life and how the appliances would change her life. January 16, 1990 through May 15, 1990.
- Rachel Bien, Bachelors Candidate, Bryn Mawr College. Numismatics, collection management. June 4, 1990 through August 15, 1990.
- Susan Biltekoff, Bachelors Candidate, Hartwick College. Program in African-American Culture, Production assistant for the MLK and February events-various production related tasks, i.e. logistics, volunteer coordination, registration, hospitality, and conference follow-up. January 2, 1990 through February 5, 1990.
- Amy Blakeley, Bachelors Candidate, Smith College. Medical Sciences, cataloguing a collection of medical graphics. September 4, 1990 through December 21, 1990.
- Carolyn Blank, Bachelors Degree. Biological Sciences and Medical Sciences, assist collections manager in Medical Sciences; in

- Biological Sciences research assistant for exhibit on Science in America in three areas: History of the Birth Control Pill, Health, and Recombinant DNA. September 10, 1990 through August 31, 1991.
- Jennifer Bradford, Bachelors Degree. Community Life, conduct research on children, family, and culture in the United States, 1945-65; assist with preparation installation, assistance with divisional work. September 10, 1990 through May 31, 1990.
- Carolyn Brady, Bachelors Degree, University of Virginia. Office of Education and Common Agenda, responsible for day-to-day management of Exhibit Preview area; assist with audience research; develop funding proposal for Common Agenda projects; pursue research efforts for Common Agenda. August 30, 1990 through November 30, 1990.
- Jennifer Brier, Bachelors Candidate. Agriculture and Natural Resources, research for various projects including a film for the Agriculture Hall and the Rock 'N' Roll exhibit. September 10, 1990 through May 1, 1991.
- Carrie Brown, Bachelors Candidate, University of Minnesota. Armed Forces History, provide hands-on experience working with museum objects and reference material with emphasis on object care, conservation, storage, and registration. June 18, 1990 through August 24, 1990.
- Elizabeth R. Brown, Bachelors Degree, Bowdoin College. Domestic Life, "After the Revolution"--renovation of an existing exhibition. August 20, 1990 through October 20, 1990.
- Greta Brunschwyler, Bachelors Candidate, University of Maryland. Exhibits Design, assist in the "Parlour to Politics" exhibit. January 19, 1990 through April 27, 1990.
- Corri Bruns, High School Graduate. Division of Medical Sciences, participant in Intern 90, Office of Elementary and Secondary Education's National Summer Internship Program. June 4, 1990 through July 6, 1990.
- Carol Bryant, Bachelors Candidate, George Mason University. Registrar's Office, assist Silver Hill Facility staff with the Zim Collection, Norcross Greeting Collection. June 4, 1990 through August 17, 1990.
- David Burrell, Bachelors Candidate, Holy Cross College. Political History, research on New Hampshire presidential primaries; establishment of liaison with the Democratic Party; collections management and photo caption writing. September 4, 1990 through November 29, 1990.
- Amy Buskirk, Bachelors Candidate, University of Michigan. Numismatics, work with the numismatics collection in reorganization that is essential for the study of this collection. June 11, 1990 through August 3, 1990.
- Kim Butler, PhD Candidate, Howard University. Community Life, Conceptualization, research, and implementation of new African American section of "After the Revolution" exhibit; participate in oral history project on African American migration in early 20th century. January 22, 1990 through June 5, 1990.
- Theadocia Caemmerer, Bachelors Degree, Brown University. Museum

- Programs, serve as assistant program coordinator with special concentration on the Country Dance Society Anniversary Celebration. February 26, 1990 through June 15, 1990.
- Sara C. Carlson, Bachelors Candidate, Colgate University. Numismatics, as a curatorial assistant, concentrate on collections management procedures and help to organize the collection of World Decorations. June 1, 1990 through August 10, 1990.
- Stephen Chan, Bachelors Candidate, Rensselaer Polytechnic Institute. Registrar's Office, work on Zim Collection; assist collections management staff at the Silver Hill Facility. June 5, 1990 through August 10, 1990.
- Betsi Chapman, High School Graduate. Smithsonian Early Enrichment Center, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- An-Wen Chen, Bachelors Candidate, Randolph-Macon Woman's College. Graphic Arts, comparing lists, updating and correcting them, handling type, assisting the fish printing demonstration, etc. September 20, 1990 through December 7, 1990.
- Eileen Cheng, Bachelors Candidate, Harvard University. American Quarterly, copy editing and a research project on Tourism, 1890-1930. June 11, 1990 through August 17, 1990.
- Edward Christian, High School, Ballou Senior High School. Exhibits, assist in customizing work for mountings, construction of cabinets, involves use of table saw, power tools, hand tools, paints, and other materials needed f o r exhibit construction. December 15, 1989 through June 30, 1990.
- Suzanne Cole, Bachelors Candidate. Engineering and Industry, research assistant to a curator, concentrating on preliminary work for a future major exhibition entitled "Science and America". June 4, 1990 through August 10, 1990.
- Vickie Crawley, Bachelors Candidate, George Mason University. Archives Center, Duke Ellington Project. June 4, 1990 through August 24, 1990.
- Kara Cunningham, Bachelors Candidate, Connecticut College. Armed Forces History, develop reference resource file on the participation of women in the Civil War; gain knowledge of routine museum collections care pertaining to National Collection of Women's Uniforms. September 20, 1990 through December 14, 1990.
- Alicia Cutler, Bachelors Degree, Mt. Holyoke College. American Indian Program, Native American Studies in art and culture. February 12, 1990 through May 31, 1990.
- Peter Dennen, Bachelors Candidate, Hartwick College. Photo Services, printing photos for the American History Museum and the Air and Space Museum. September 20, 1990 through December 7, 1990.
- Amy Dixon, Bachelors Candidate, Smith College. Community Life, emergence of rock and roll in the 50's in Memphis. September 4, 1990 through December 21, 1990.

David Dodson, Bachelors Candidate, University of Maryland.-
Public Affairs, assisting office of public affairs. January
 22, 1990 through May 15, 1990.

Scott Doniger, Bachelors Candidate. Audience Research, Audience
 research and exhibit design. May 21, 1990 through August
 17, 1990.

Natashia Dooley, Bachelors Candidate, American University.
African American Culture, assist program coordinator in
 organization and implementation of International Women's
 Day Program on African American Women in the Work Force,
 and of a graduate students meeting on Research in African
 American studies. February 1, 1990 through April 27, 1990.

Vidya Dorai, Bachelors Candidate, University of Maryland.
Academic Affairs, copy-editing for the American Quarterly;
 learn copy-editing skills, work on research project, develop
 research and writing skills. May 31, 1990 through August
 31, 1990.

Anja Dauschek, Bachelors Degree, University of Munich.
Agriculture and Natural Resources, work on several exhibits:
 Rock 'n' Roll, Science, and the Agriculture Hall renovation;
 work in the division's collection to learn policies and
 procedures. June 4, 1990 through August 31, 1990.

Lynette Eaddy, Bachelors Candidate, Emory University.
Agriculture and Natural Resources, assist in collections
 management and handling of objects and work on exhibit
 planning for the Science exhibit, Rock 'n' Roll, and perhaps
 agricultural hall. June 11, 1990 through August 10, 1990.

Ralph Earle III, Bachelors Candidate, Gettysburg College.
Registrar's Office, Clearing two object storage areas in
 advance of the construction of a new textiles lab: work
 includes condition reporting, photography, computerized
 shipping lists, object cleaning, and preparation for
 shipping. September 18, 1990 through December 7, 1990.

Christine El Eris, Bachelors Candidate, Smith College. Political
 History, American working class political organizations.
 September 4, 1990 through December 21, 1990.

Linda Enquist, Bachelors Candidate, George Mason University.
Conservation, costume conservation project: Francis
 Cleveland's wedding dress. January 11, 1990 through June 1,
 1990.

Sunae Evans, PhD recipient. Conservation, conservation of t h e
 Ida McKinley Inaugural Gown. December 5, 1989 through June
 30, 1990.

Scott Faulkner, Bachelors Candidate, Pacific Lutheran University.
American Music, Archive Duke Ellington Collection and aid
 curator of American Music. June 4, 1990 through August 17,
 1990.

Ellen Felser, Bachelors Degree, University of Oregon.
Domestic Life, revision of exhibit-"Everyday Life in the
 17th and 18th Century". May 14, 1990 through August 15,
 1990.

Tamara Felton, Bachelors Candidate, Hampton University. Social
 and Cultural History, African-American Index Project: data
 entry and cataloging of photos, memoirs, etc. for data bank.

June 4, 1990 through August 24, 1990.

Lori Feild, Bachelors Candidate, University of Maryland. Exhibit Design, assistant to the exhibition designer for the 19th century project: responsible for scaled object drawing, space development concepts, updating exhibit floor plans using Auto Cad, design, research, model-making. September 17, 1990 through December 7, 1990.

Beth Fisher, Masters Candidate, George Washington University. Registrar's Office, become acquainted with all aspects of OPF as well as the various departments throughout the museum. May 29, 1990 through November 30, 1990.

Claire Florence, Bachelors Candidate, Smith College. History of Science, exhibit case study on the Birth Control Pill. September 4, 1990 through December 21, 1990.

Ian Ford, Bachelors Degree, Whitman College. Armed Forces History, assist with collections management projects including the equestrian collection and the U.S. Army head gear collection, and with preparation for three future exhibitions. October 9, 1989 through September 30, 1990.

Dan Fouts, Bachelors Candidate, American University. Political History, research on science and technology in the home. February 1, 1990 through May 1, 1990.

Laurel Fraser, Bachelors Candidate, Boston University. Public Affairs, assist staff of the Office of External Affairs in executing all promotion and public responsibilities for the Museum's programs and exhibitions. May 29, 1990 through July 20, 1990.

Jennifer Gac, Bachelors Degree, University of California-Berkeley. Community Life, assist with development of videotape for the African-American section of "After the Revolution"; assist with development of the children's section of "Field to Factory". September 17, 1990 through December 31, 1990.

John Gentry, Bachelors Candidate, Lee College. Armed Forces History, assist in the reorganization of objects in the firearms storage area, concentrating on a reclassification of US arms issued to military forces from 1775-1990. January 29, 1990 through May 5, 1990.

Suzanne Gonce, Bachelors Degree, Rhodes College. Museum Programs, Richard Allen Project--outreach program to DC schools. September 10, 1990 through December 31, 1990.

Martha Good, Bachelors Candidate, Gettysburg College. Department of Public Programs, assist on public programs connected with museum exhibitions: "From Parlor to Politics", "Contrasts", and the Holiday Celebration. September 6, 1990 through December 1, 1990.

David Goodson, Bachelors Candidate, Howard University. Division of Musical History, various administrative duties in support of the program. February 1, 1990 through June 1, 1990.

John Grace, Bachelors Candidate, Gettysburg College. Registrar's Office, clearing two object storage areas in advance of the installation of a textile lab; work includes condition reporting, photography, computerized shipping lists, object cleaning, and preparation for shipping. September 18, 1990

- through December 7, 1990.
- Alison Graham, Bachelors Candidate, Kenyon College. Numismatic Collection, organization and labeling of coins and medals. June 4, 1990 through August 17, 1990.
- Marcia Graham, High School Student, Anacostia High School. Office of the Director, assist with the daily operations in the director's office; correspondence, inquires, etc.; on-the-job training to enhance secretarial curriculum. July 2, 1990 through August 31, 1990.
- Maria Grotz, Bachelors Candidate, Smith College. Engineering and Industry, science and society in the 20th century America. September 4, 1990 through December 21, 1990.
- Nicole Hammack, Bachelors Candidate, Villanova University. Engineering and Industry, assist in rehousing phonograph records, approximately 500, dating from 1878-1886; help to survey the records for possible conservation treatment and to complete cataloging procedure. June 13, 1990 through August 10, 1990.
- Clyde Hastings, Bachelors Candidate, University of Maryland. Exhibit Design, assistant to exhibition designer; responsible for scaled object drawings, space development concepts, updating of exhibits using Auto Cad, model making, research, and re-creation. September 17, 1990 through December 7, 1990.
- Donna Hayashi, Bachelor Candidate, University of Hawaii-Manoa. Numismatic Collection, documentation of collection of premonitory media of exchange. September 10, 1990 through November 30, 1990.
- Nguyen-Hong Hoang, High School Graduate. Political History, participate in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Christopher Hyland, High School Student, John F. Kennedy High School. Armed Forces History, assist with the management and care of the firearms collection. September 25, 1990 through December 31, 1990.
- Donna Jacumin, Bachelors Candidate, University of North Carolina at Chapel Hill. Numismatics Division, as assistant to the curator the intern will focus on several aspects of collections management, including updating records, organizing photographic documentation, and pursuing research to be used in finder's aid and the collection. May 21, 1990 through August 10, 1990.
- Huey-ing Jeng, Masters Degree, George Washington University. Registration, collection management, object processing, documentation. May 29, 1990 through July 20, 1990.
- Andrea Jenkins, Bachelors Candidate, Spelman College. Music, organize information on historic keyboard instruments in collections and private homes around the world. July 2, 1990 through August 10, 1990.
- Amy Johnson, Bachelors Candidate, James Madison University. Political History, assist in the inventory of the collections; assist in the installation of the exhibit "Parlor to Politics"; assist in minor research tasks. June

25, 1990 through August 24, 1990.

Holly Jones, Bachelors Candidate, Smith College. Costume, History of the T-shirt. September 4, 1990 through December 21, 1990.

Michael Jones, High School Graduate. Program in Popular American Music, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Patricia Jones, Masters Candidate, Howard University. Program of African-American Culture, video tape team. June 4, 1990 through August 17, 1990.

Elizabeth Jordan, Bachelors Candidate, Indiana University. Social and Cultural History and Domestic Life, assist with the renovations to the exhibition, "After the Revolution: Everyday Life in America 1780-1800"; assist with collections management activities in the Division of Domestic Life. June 11, 1990 through August 3, 1990.

David Kupas, Bachelors Candidate, Indiana University of Pennsylvania. Electricity and Modern Physics, collections management; exhibit design and production; curatorial experience. June 4, 1990 through August 3, 1990.

Cynthia Landrum. Armed Forces History, participate in 19th century U.S. Headgear rehousing project; work with staff on exhibition installation. February 20, 1990 through April 30, 1990.

Jay Lee, Bachelors Candidate, University of Pennsylvania. Archives, coordinate stereograph glass collection. June 4, 1990 through August 24, 1990.

Beth Lemon, Bachelors Candidate, University of California-Berkeley. Public Programs, Columbus Quincentenary-audience research concerning knowledge of Native American life; work on the cultural relations aspect of the Quincentenary program (archive research). June 4, 1990 through August 3, 1990.

Angela Leonard, PHD, George Washington University. Office of Academic Programs, assist the editorial staff of the American Quarterly--in particular copyediting original manuscripts accepted for publication. October 2, 1989 through December 22, 1989.

Rosa Lesue', High School Graduate. Archives Center, Participant in Intern 90, Office of Elementary and Secondary Education's National Summer Internship program. June 4, 1990 through July 6, 1990.

Robert Lima, Bachelors Candidate, Howard University. Museum Programs, program assistance--"Palm Court Cameos", "All-American Music", "Capitol Writers" series--research in American Music. October 25, 1989 through December 30, 1989.

Sally Livingston, Bachelors Degree, University of Arizona. Registrar's Office, rotation throughout registrar's office, providing introduction to collections management practices and policies at NMAH. Initial emphasis to be loan program and "1876" exhibit take down. October 16, 1989 through April 30, 1990.

Susan Logan, Bachelors Candidate, Messiah College. Museum

- Programs, research and production preparation for two related projects dealing with the career of Cole Porter. September 5, 1990 through December 19, 1990.
- Shanon Loring, Bachelors Candidate, Endicott College. Exhibits, exhibits productions-graphics, silkscreen, paste-up layout-wet mounting, photo mounting, mat cutting, and type setting. January 2, 1990 through January 28, 1990.
- Shanon Loring, Bachelors Candidate, Endicott College. Exhibits Production, assist with coordination of exhibit production projects, concentrating on facilitation of information transmission and retrieval. June 11, 1990 through August 10, 1990.
- Alexandra Mack, Bachelors Candidate, Harvard College. Engineering and Industry, research for a new time keeping hall; find appropriate objects, graphics, and documentation regarding Native American archeoastronomy. June 5, 1990 through August 10, 1990.
- Sarah Magpie, Bachelors Candidate, New York University. American Indian Program, assist the Director of the American Indian Program; gather and distribute information about activities involving the program; help organize a conference, a symposium, and publication on related topics; and participate in planning for the National Museum of the American Indian. January 30, 1990 through July 31, 1990.
- Gordon MacLean, Bachelors Candidate, Kalamazoo College. Museum Programs, assist in production of 3 monthly concerts; in research for 1991 Cole Porter Centennial and for recordings in "American Songbook" series. March 26, 1990 through June 15, 1990.
- Lori Mann, Bachelors Candidate, University of California-Berkeley. Engineering and Industry, research for Time Keeping Hall and other miscellaneous research. June 13, 1990 through August 10, 1990.
- Ursula Marcum, Bachelors Degree, University of Maryland. Registrar's Office, organize and catalog an extensive collection of 19th and 20th century World's Fair objects. February 12, 1990 through May 31, 1990.
- Becky Marcus, Bachelors Candidate, Stanford University. Program in African-American Culture, January program bringing together Civil Rights protesters of the 1960's with current student protesters. July 3, 1990 through August 15, 1990.
- Lisa Martinuzzi, Bachelors Candidate, Hope College. Political History, political campaign of Warren Harding with emphasis on the role of his wife, Florence Harding. March 19, 1990 through April 27, 1990.
- Laurel Maury, Bachelors Candidate, Bennington College. American Science Exhibit, Archival research and museum (object related) research for a nineteenth century laboratory setting in the American Science Exhibit at the National Museum of American History. January 8, 1990 through February 27, 1990.
- Jill McCutcheon, Masters Candidate, George Mason University. Division of Domestic Life, assist the collections manager for After the Revolution and pursue research related to a

- major group of objects in that exhibition. January 30, 1990 through May 5, 1990.
- Melinda McEndarfer, Bachelors Degree, Northeast Missouri State University. Internship, organize Brown Bag Lunch Series for NMAH interns; be peer advisor for interns; start NMAH intern newsletter. September 17, 1990 through March 31, 1991.
- Erica Martin, Bachelors Degree. African-American Program, research and editorial assistant for the program in African-American cultures forthcoming publications to be issued in 1990-1991. September 10, 1990 through January 31, 1990.
- Kelly McKaig, Bachelors Candidate, Brown University. Advertising History, assist in organizing Noxell Collection and preparing brochure; abstract oral history interviews about early television advertising; assist in research for Nike project; assist in general administrative duties. June 18, 1990 through August 17, 1990.
- Rafaa McRae, Bachelors Candidate, University of Pennsylvania. Program of African-American Culture, conduct research on Africans in the Americas and Native American intersections and interactions in the Americas. June 4, 1990 through August 3, 1990.
- John McTigue, Jr., Bachelors Candidate, State University of New York-Buffalo. Political History, assist museum specialist in a museum wide canvas of collections for the interwar section of the "Science in American Life" exhibit. June 11, 1990 through August 3, 1990.
- Victoria Meier, Bachelors Degree, University of Michigan. Armed Forces History, assist with collection management projects, concentrating on the military headgear collection, and with preparation of a future exhibition. May 22, 1990 through August 8, 1990.
- David Meister, Jr., Bachelors Candidate, Golden West College. Armed Forces History, provide "hands-on" experience with object care, conservation, storage, and registration processes. June 11, 1990 through August 17, 1990.
- Kathrin Mereigh, High School Student, Georgetown Visitation Preparatory School. Armed Forces History, assist staff and curator with research about military uniforms and accessories; assist with correspondence and inquiries related to armed forces history. July 2, 1990 through August 31, 1990.
- Denise Meringolo, Bachelors Candidate, George Washington University. Political History, help with graphics, photographs, photographic research, and developing a catalogue. January 16, 1990 through April 27, 1990.
- James Mills, Masters Candidate, George Washington University. Audience Research, research assistant and exhibits manager: assists with the design and implementation of an experimental space for the evaluation of proposed exhibition components. Conducts informal and formal evaluations in that space. January 16, 1990 through May 10, 1990.
- Roderick Milstead, Bachelors Candidate, Beloit College. Public Affairs, assist the Office of External Affairs in executing its obligation to promote and publicize the programs and

- activities of the American History Museum; responsible for written and verbal inquiries. May 21, 1990 through August 30, 1990.
- Melissa Milstein, Bachelors Candidate, Scripps College. Division of Medicine and Science, research on Visiting Nurses Associations. May 14, 1990 through July 14, 1990.
- John Monagle, Museum Professional. Archives Center, process and analyze the Robert Mills collection. September 20, 1990 through November 30, 1990.
- Sharon Moore, High School Graduate. Program in African American Cultures, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Amy Morello, Bachelors Degree. Public Programs, film series reflecting the "Men and Women" exhibitions; research on "Peanuts" cartoon and creation of three five-minute videos to accompany a fall exhibition on "Adolescence in the Cold War Era". June 7, 1990 through August 31, 1990.
- Bridget Morgan, Masters Candidate, George Washington University. Conservation, assist with inventory of History of Science and Technology exhibits in preparation for their movement from American History to Fullerton. Assist in rehousing projects in paper conservation laboratory. February 7, 1990 through May 4, 1990.
- Susan Mueller, Bachelors Candidate, Washington University. Costume, establish a system for documenting the fashion industry in the US; assist as needed with preparation of costume collection for movies. June 18, 1990 through August 18, 1990.
- John Murph, Bachelors Candidate, Mississippi State University. Archives Center, Duke Ellington Project. June 4, 1990 through August 24, 1990.
- Lisa Myers, High School, School Without Walls. Office of External Affairs, assist with tasks pertinent to public programs, filing, xeroxing materials, answering phones, and meeting the public. November 20, 1989 through June 30, 1990.
- Jennifer Oberst, Bachelors Candidate, Portland State University. Political History, assist with all phases of the formation of the catalog for the exhibition "Parlour to Politics", and with the organization of a symposium on the same topic. September 24, 1990 through December 4, 1990.
- Ellen Oglesby, Bachelors Candidate, Stanford University. Costume, document the changing use of jeans on men's and women's clothing since World War II and use this information to access the Office of Costumes collections and formulate a collecting plan. June 18, 1990 August 31, 1990.
- Jacqueline Olagbaju, PhD, University of Pennsylvania. Division of African-American Cultures, cultural politics and African-American hair sculpture aesthetics. September 17, 1990 through December 7, 1990.
- Tracey Oliveira, Bachelors Candidate, UCLA. Engineering and Industry, preparation of a new time keeping hall--build bibliography and research files on psychological studies of

human time awareness. June 18, 1990 through August 11, 1990.

Vilma Ortiz-Sanchez, Masters Candidate, George Washington University. Registrar's Office, clearing two object storage areas in advance of the construction of a new textile lab: work includes conditioning reporting, photography, computerized shipping lists, object cleaning, and preparation for shipping. September 18, 1990 through December 21, 1990.

Susan Page, Bachelors Degree, Drexel University. Social and Cultural History, production and distribution of subscription brochure-museum's chamber music program; public relations support; press releases 1990-91 season; update press list; publicity for summer film series. June 18, 1990 through August 17, 1990.

Niles Parker, Bachelors Candidate, Colby College. Social and Cultural History, assist with master plan projects, all aspects; and assist with organizing C.M. information and photographing files in the office of the collections manager. June 12, 1990 through July 26, 1990.

Marilyn Paul, Masters Candidate, George Washington University. Education, audience research project for 19th century exhibit (Title, theme statement, adult & school age audience); development team for expanded Hands on History Room (design concept and recommended activities). January 16, 1990 through April 26, 1990.

Sara Perlman, Bachelors Candidate, Skidmore College. Registrar's Office, assist with day-to-day maintenance of "1876" exhibition; work in lab with objects, care and condition of objects. September 20, 1990 through December 17, 1990.

Katherine Piva, Bachelors Candidate, Pomona College. Public Programs, special assistant to the Director of Audience Research. May 29, 1990 through August 17, 1990.

Julie Platt, Masters Candidate, George Washington University. Education, work on Science and American Life project team, assisting in the planning and implementation of the Learning Center component of the exhibition. September 13, 1990 through December 20, 1990.

Mitzi Plummer, Bachelors Candidate, University of North Carolina at Chapel Hill. Archives Center, process manuscript collections including research and writing; use of word processor; will develop skills in the use, care, and organization of primary materials. May 21, 1990 through August 17, 1990.

Corey Poole, High School Student, Duke Ellington School of Arts. Public Programs, conduct research on how NMAH presents Duke Ellington through both the Ellington Archives and public programs; produce video documentary on DC Neighborhood in which Ellington grew up. June 9, 1990 through August 17, 1990.

Birgit Prella, Masters Candidate, University of Maryland. Archives Center, processing of Sohmes Piano Company collection; creation of series level Marc format data entries for same collection; survey of Archives Center

Researchers. May 29, 1990 through July 20, 1990.

Elaine Rice, Bachelors Degree. Domestic Life, help with the revision of the exhibition "After the Revolution: Everyday Life 1780-1800"; research, physical care of objects, rehousing of acquisitions; assist in preparation of bibliographies related to the division's collection. September 4, 1990 through September 1, 1991.

Matthew Roberts, High School Graduate. Military History, participant in Intern 90, Office of Elementary and Secondary Education's National Summer internship program. June 4, 1990 through July 6, 1990.

Judith Rhoden, Bachelors Degree, University of Tennessee-Chattanooga. Education, identify and research corporations that can be potential resources for volunteers; contact appropriate staff in such organizations to explain NMAH volunteer activities and submit report to coordinator of docent programs. June 25, 1990 through August 29, 1990.

Seth Richardson, Bachelors Degree, Middlebury College. Agriculture and Natural Resources, research on Science in American Life, collections assistance, Rock 'n' Roll exhibit. June 20, 1990 through June 1, 1991.

Juliejon Rondeau, Bachelors Degree, Massachusetts College of Art. Design, formulate a handbook for the usage of directional signage; catalog a typography currently in use; assist in exhibition design. September 24, 1990 through December 31, 1990.

Cynthia Rose, Bachelors Candidate, Abilene Christian University. Archives Center, Underwood Stereograph Project; learn museum and archival procedures. June 4, 1990 through August 10, 1990.

Emilie Rosenberg, Bachelors Degree, University of North Carolina-Greensboro. Internship and Fellowship Office, analysis of the program for the past two fiscal years; organize the weekly series of Brown Bag lunches for approximately 85 interns in the museum. May 31, 1990 through August 9, 1990.

Jennifer Schmitt, Bachelors Candidate, Smith College. Archive Center, Catalog collection of Norcross Greeting Cards. September 4, 1990 through December 21, 1990.

Gretchen Schneider, Bachelors Candidate, Smith College. History of Science and Technology, origins of History of Technology. September 4, 1990 through December 21, 1990.

Wendy Sears, Bachelors Candidate, University of California-Davis. Audience Research, training and practice concerning both informal and formal audience research studies, computer data entry, information gathering, creation and evaluation of mock exhibits in the preview area, production of office reports, and the implementation of an audience advocacy team. September 18, 1990 through December 15, 1990.

Nicole Senecal, Masters Candidate, George Washington University. Department of Social/Cultural History, work on preparing collection objects for the exhibition "From Parlour to Politics", work with incoming loans from several neighboring institutions. January 24, 1990 through April 6,

- 1990.
- Gabriela Sepulveda, Bachelors Candidate, Northwestern University. Internship Office, assistant internship and fellowship coordinator. January 22, 1990 through June 22, 1990.
- Lisetta Sebaski, Bachelors Degree. African American Affairs, research on the role of religion in Afro-American culture. April 2, 1990 through June 30, 1990.
- Lynn Shableski, Bachelors Candidate, Catholic University. Objects Processing, collections management assistant with responsibility for preparation of new textile lab. September 21, 1990 through December 17, 1990.
- Benjamin Sims, Bachelors Candidate, Wesleyan University. Biological Science, research assistant for the exhibition Science in American Life, concentrating on photo and film images on American physics 1930-1950. June 4, 1990 through August 10, 1990.
- James Smith, Bachelors Candidate, Duke University. Armed Forces History, assist in the complete reorganization of objects located in the firearms collection storage area. June 11, 1990 through August 3, 1990.
- Gabrielle Sodowick, Bachelors Candidate, American University. Public Affairs, media relations and publicity for the exhibition "200 Years of U.S. Papermaking" and "The Peanuts Cartoon and Children in the 1950's". September 25, 1990 through December 14, 1990.
- Linda Song, Masters Candidate, University of California-Berkeley. Community Life, assist in the compilation of oral history on African-American migration 1915-1940; survey of African-American newspapers regarding perception of California. June 11, 1990 through August 3, 1990.
- Jennifer Spence, Bachelors Candidate, Florida Southern College. Electricity and Modern Physics, collections management-data entry, cataloging, report, design & production, research. June 11, 1990 through August 31, 1990.
- Rebecca Steinfeld, Bachelors Candidate, University of Wisconsin. Political History, research and object selection for 19th Century exhibit. June 4, 1990 through August 10, 1990.
- Angela Stewart, Masters Candidate, Kent State University. Community Life, research on Tuskegee Syphilis Experiment for an upcoming exhibition of American Medicine in the 20th century. June 4, 1990 through August 24, 1990.
- Evan Stoddard, Bachelors Degree, Miami of Ohio. Science Division, prepare research on an upcoming exhibit, "Science in America" using the NMAH library, the Library of Congress, and the National Archives to obtain information and photographs on historic American scientist. June 4, 1990 through January 1, 1991.
- John Taylor, High School Graduate. National Numismatic Collections, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Christine Theberge, Bachelors Candidate, Boston University. Program in African-American Culture, serve as assistant to

- program coordinator concentrating on such projects as research on the African Diaspora, the Columbus Quincentenary Program, and a report on the 1990 program season. May 30, 1990 through August 17, 1990.
- Sheron Thorp, Bachelors Candidate, American University. Publications, assist in all phases of publications, design, and production, with special emphasis on desk top publishing. February 1, 1990 through April 27, 1990.
- Victoria Toliver-Harris, Bachelors Degree, Howard University. Academic Studies, Copy editor for the American Quarterly. January 8, 1990 through March 30, 1990.
- Maria Topham, Bachelors Candidate, College of William and Mary. Office of Academic Programs, assist with editing and copy editing the American Quarterly and a research project. May 8, 1990 through July 20, 1990.
- I-Chin Tu, Bachelors Candidate, University of Washington. Afro-American Communities, research the relationship between African-American and Chinese-American in Northern US cities in the late 1800's utilizing secondary sources, period literature (Chinese Community newspapers, etc.). June 18, 1990 through August 17, 1990.
- Monica Underhill, Bachelors Degree, Yale University. Agriculture and Natural Resources, assist with collections management, and planning for installation of the Agriculture Hall and for exhibits devoted to science and to rock and roll. February 26, 1990 through May 31, 1990.
- Daniel Unger, Bachelors Candidate, University of Virginia. Political History, work on cultural aspects of life in the 19th century United States for 19th Century Life in America exhibit. June 4, 1990 through August 17, 1990.
- Alexander Urciuoli, Professional. Computers Information Society, assist in research and development of educational materials to be used in the "Information Age" exhibit: informal evaluation of and pretesting of materials; computer programming. June 20, 1990 through August 20, 1990.
- Carolyn Vaughn, Bachelors Candidate, American University. Exhibit Design, assist designers as necessary in the preparation of graphic/object books and scaled drawings; possible exhibit design projects. June 4, 1990 through August 10, 1990.
- Jennifer Vest, Masters Candidate, Howard University. Program on African-American Culture, assist in the completion of Diasporan Bibliography project; plan and research for the International Conference on the African Diaspora. September 24, 1990 through May 31, 1991.
- Thomas Vinson IV, Bachelors Candidate, Wake Forest University. Community Life, research and exhibit preparation for "This is Your Childhood, Charlie Brown: Children and American Culture, 1945-1970. May 24, 1990 through August 10, 1990.
- Andrea Volpe, Bachelors Degree, Oberlin College. Community Life, Childhood in the 50's and 60's; social history of rock n' roll in Memphis. April 5, 1990 through September 30, 1990.
- Daniel Warner, Bachelors Candidate, Portland State University. Graphic Arts, organize, proof, and list typefaces kept in

NMAH as part of the type list project; assist with printing demonstration in the Graphic Arts Hall. September 24, 1990 through November 30, 1990.

- George Weinwurm, Bachelors Candidate, American Studies Program. Administration, budget, accounting, and personnel analysis to support the work of the central administration office. September 11, 1990 through December 19, 1990.
- Cheryl Welch, Bachelors Candidate, Randolph-Macon College. Political History, assist in installation of exhibit and in caring for loans and photos associated with exhibit. May 21, 1990 through August 10, 1990.
- Richard Wills, Bachelors Degree. Maritime, Collect and categorize 18th and 19th Century ship plans, transfer deteriorizing originals onto mylar, set up a flattening process, assist in rehousing process, add MARAD collection to list. January 8, 1990 through April 30, 1990
- Elizabeth Wilson, Bachelors Degree, John F. Kennedy University. Intern Office, participate in intern community building activities, including Brown Bag Lunch Series, bulletin board, intern roster, mailing list. June 18, 1990 through August 18, 1990.
- Michell Wilson, Bachelors Candidate, Mount Holyoke College. Social and Cultural/African-American Cultural Program, assist in completion of African-American Index; research to support coming year's program on Transmission of African Aesthetics to United States. May 21, 1990 through August 31, 1990.
- David Yang, Bachelors Candidate, University of Maryland. Exhibit Design, assist designers as necessary in the preparation of graphic materials for exhibit display, i.e. labeling, charts, maps, graphs, illustrations, etc.; aid in conception, execution, and production of a variety of projects that will vary in size and complexity. June 4, 1990 through September 4, 1990.
- Walter Yang, Bachelors Candidate, Trinity College. African-American Cultures, research for health and healing conference in the fall of 1991. June 11, 1990 through August 4, 1990.
- Jennifer Yunginger, Bachelors Candidate, Beloit College. Registrar-Acquisition: Accountability, internship will focus on work in two program areas within the Office of the Registrar: record files and work with the accountability program. May 21, 1990 through August 10, 1990.
- Jonas Zuckerman, Bachelors Candidate, University of Florida. Archives, cataloging a collection from Melvin Kransford, and other work as it becomes available. May 14, 1990 through August 10, 1990.

NATIONAL MUSEUM OF THE AMERICAN INDIAN

- Mary Paterson, Bachelors Degree, College of Wooster. Conduct research for and edit major policy and program documents on a wide range of subjects and issues which reflect the planning process and public programs component of the NMAI.

September 10, 1990 through December 10, 1990.

NATIONAL MUSEUM OF NATURAL HISTORY

- Amelia Adams, Bachelors Degree, University of Oklahoma. Anthropology, locate appropriate replacement specimens for the Human Variation exhibit. May 29, 1990 through August 3, 1990.
- Garrett Alberico, Bachelors Candidate, University of North Dakota. Botany, Botanical Art Collection-restoration and preservation. May 28, 1990 through August 3, 1990.
- Gianni Baratta, Bachelors Candidate, Indiana University of Pennsylvania. Anthropology, archaeological study of 2 Powers Phase Mississippian sites (ca. 1300 AD), Turner and Snodgrass, located in SE Missouri, remains of chiefdom societies--analysis of stone tools from the sites to reconstruct aspects of prehistoric technology. June 4, 1990 through September 1, 1990.
- Christopher Bevitt, High School Graduate. Anthropology, participant in Intern 90, Office of Elementary and Secondary Education. June 4, 1990 through July 7, 1990.
- Christopher Blalock, High School Student, Bolles School. Marine Systems Lab, analysis of destructive effects of different pumping systems on a mixed plankton community. July 16, 1990 through August 31, 1990.
- Gregory Brass, Bachelors Candidate, University of British Columbia. Anthropology, work on Comanche Tribal Catalog. September 17, 1990 through December 7, 1990.
- Nancy Bratton, Bachelors Candidate, Virginia Commonwealth University. Anthropology, learn basic techniques of scientific illustration. July 9, 1990 through August 17, 1990.
- Melvin Brewster, Masters Candidate, Sonoma State University. Anthropology, an analysis of the social and economic dimensions of Arikara Pottery manufacture. March 5, 1990 through May 12, 1990.
- Christina Burke, Bachelors Degree. Education, provide research knowledge and skills and organizational support for Office of Education programs including the development of a new tour/school discipline and associated teachers workshop. May 24, 1990 through September 30, 1990.
- Margarita Campbell, Bachelors Candidate, Duke University. Special Exhibits, education programs for Beyond the Java Sea. June 4, 1990 through August 3, 1990.
- Mark Carter, Bachelors Candidate, Tufts University. Paleobotany, paleobotany studies in Wyoming. May 28, 1990 through August 30, 1990.
- Elizabeth Cates, Bachelors Candidate, George Mason University. Anthropology, The project is an archaeological study of two Powers Phase Mississippian sites (ca. AD 1300), Turner and Snodgrass, located in Southeast Missouri. The sites are considered to be remains of chiefdom societies. The internship involves analysis of stone tools to reconstruct aspects of prehistoric technology, economies, and social

- relations. December 18, 1989 through December 31, 1990.
- Ryan Chapin, High School, Oakland Mills High School. Botany, Rainforest awareness pamphlet with text and accompanying illustrations describing plant-animal relationships. January 22, 1990 through September 1, 1990.
- Helen Counts, High School Graduate. Botany, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Jessica Downs, Bachelors Candidate, University of Wisconsin-Madison. Botany, marine algal ecology. May 28, 1990 through August 3, 1990.
- Melissa Dunford, Bachelors Degree. Anthropology, conduct a literature search of tool use and traditions of social learning in nonhuman primates; summarize and develop a classification system of such behaviors; examine data from the Olduvai Gorge collections of early stone artifacts. March 19, 1990 through May 15, 1990.
- Melissa Etheridge, Bachelors Degree, Colorado College. Molecular Systematics, DNA isolation/quantification of Titmose and Rufas-sided tohees across an avian contact zone. June 4, 1990 through January 1, 1991.
- Nardos Fessaha, Bachelors Degree. Anthropology, develop microvertebrate casts to compare with East African fossils, and update inventory of hominid and other primate casts. February 5, 1990 through April 2, 1990.
- Suzanne Folke, Bachelors Candidate, Butler University. Vertebrate Zoology, Catalogue of Snakes. May 29, 1990 through August 3, 1990.
- Margaret Frost, Bachelors Degree, Williamstown Public School. Office of Education, exploring ways to use artifacts for teaching about both Native Americans and Japanese cultures, areas currently in school's curriculum. October 13, 1989 through November 10, 1989.
- Lisa Gawen, Bachelors Candidate, University of North Carolina-Chapel Hill. Paleobotany, paleobotanical studies in Illinois. May 28, 1990 through August 11, 1990.
- Elvira Gignoux, Bachelors Candidate, American University. Development, research and development planning for the Festival of the American Horse. September 13, 1990 through December 15, 1990.
- Karen Glantz, Bachelors Candidate, Cornell University. Botany, endangered plant studies: compilation of a book on medicinal plants. May 28, 1990 through August 3, 1990.
- Steven Glennie, Masters Candidate, George Washington University. Mineral Sciences, help gather and disseminate information about volcanic activity, earthquakes, and meteoritic events for the Bulletin of the Global Volcanism Network. September 17, 1990 through November 9, 1990.
- Karen Gordon, Masters Candidate, Howard University. Botany, Pollen Competition. March 12, 1990 through June 1, 1990.
- Vincent Gross, High School Student, H.D. Woodson Senior High School. Education, assist with Natural Science Institute for Teachers: word processing, use of office machines, help

- keep materials organized. June 25, 1990 through August 17, 1990.
- Mary Hall, Bachelors Candidate, College of William and Mary. Anthropology, coding and referencing of Kenyan field notes and other materials; preliminary analysis of field materials. May 9, 1990 through August 20, 1990.
- Deborah Hardt, Bachelors Candidate, Smith College. Anthropology, research photographs of Indians in Pocotello, Idaho for the Plains Indians Handbook. September 4, 1990 through December 21, 1990.
- Laura Hardy, Bachelors Candidate, Louisiana State University-Shreveport. Vertebrate Zoology, analysis of South American frogs. May 29, 1990 through August 3, 1990.
- Jennifer Helfman, Masters Candidate, George Washington University. Office of Education, produce a Discovery Room Box on volcanoes, available for public use. January 16, 1990 through April 26, 1990.
- Donna Jacobs, Bachelors Candidate, Beloit College. Paleobotany, paleobotany in Wyoming. May 28, 1990 through August 30, 1990.
- Victoria Jacobson, Bachelors Candidate, Muhlenberg College. Archaeology, assist with data entry, library research, and office related activities; cataloging and processing artifacts. June 18, 1990 through August 17, 1990.
- Ramin Javedan, Bachelors Candidate, Yale University. Anthropology, assist with Asian ethnology research. May 16, 1990 through July 18, 1990.
- Anthony Jonaitis III, Masters Candidate, University of South Florida. Film Archives, introduction to archival film techniques; learn to organize, repair, process archival film; prepare it for laboratory duplication and archival storage; enhance research use of archival film. March 5, 1990 through May 15, 1990.
- Christopher Jundt, High School Graduate. Insect Zoo, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.
- Kevin Kivimaki, Bachelors Candidate, George Washington University. Mineral Science, assist in gathering and disseminating information about current volcanic eruptions, earthquakes, and meteoritic events for the Scientific Event Alert Network and assist in documenting contributions of information to the monthly SEAN Bulletin. February 12, 1990 through April 27, 1990.
- Jeremy Lapon, Bachelors Candidate, Case Western Reserve University. Anthropology Conservation, conservation laboratory. May 22, 1990 through July 25, 1990.
- Marsha Leaders, Montgomery College-Rockville. Invertebrate Zoology, prepare line drawings of animals and maps for publication. June 20, 1990 through December 20, 1990.
- Julia Lewis, Bachelors Candidate, Guilford College. Mineral Science, Geochemistry of altered meta-volcanic rocks-Ritter Range, Sierra Nevada, California. March 8, 1990 through June 15, 1990.

- David Lescinsky, Masters Degree, Louisiana State University. Mineral Sciences, gather information about volcanic activity and prepare reports about volcanism for the Bulletin of the Global Volcanism Network and other publications; assist in preparing the book Global Volcanism, 1986-1990. June 11, 1990 through July 13, 1990.
- Teresa Leslie, Bachelors Candidate, Howard University. Anthropology, work with skeletal slave populations and measuring stress through enamel defects (hypoplasias, hypocalcification, and pitting). June 4, 1990 through August 24, 1990.
- Cheerie Magalit, PHD. Mineral Science, microprobe and XRF analysis of rocks from Mayor Volcano, Philippines. February 5, 1990 through March 31, 1990.
- Roger Magazine, Bachelors Degree. Anthropology, internship in Indonesian Cultural Anthropology and Material Culture. September 27, 1990 through December 5, 1990.
- Audrey Manring, High School Student, Thomas Jefferson High School. Naturalist Center, work as an aide for the three week National Science Institute for Teachers of Minority Students. July 9, 1990 through July 27, 1990.
- Kellie Marsh, Bachelors Candidate, Western Maryland College. Entomology, Produce scientific illustrations suitable for publication in research papers in the field of entomology. January 8, 1990 through January 26, 1990.
- Janet Maurantonio, High School Student, Eleanor Roosevelt High School. Anthropology, historical research on the photographer Benedicte Wrensted, a Danish immigrant who photographed the Northern Shoshone, Bannock, and Lemhi Indians of Fort Hall Reservation during the period 1895-1912. September 20, 1990 through December 31, 1990.
- Teresa McLain, Bachelors Candidate, Metropolitan State College. Paleobotany, paleobotanical studies in Wyoming. May 28, 1990 through August 30, 1990.
- Raquel McLaughlin, Bachelors Degree. Office of Education, help with docent training and education materials for four programs; work with public programs network to develop programs for 1990-1991 and help coordinate special events. September 7, 1990 through December 7, 1990.
- Molly McMullen, Duke University. Botany, Washington, D.C. lichen curation-prepare older D.C. lichen collections for inclusion in the herbarium. May 28, 1990 through August 11, 1990.
- Melissa McQuoid, Bachelors Candidate, Whitman College. Paleobotany, paleobotanical studies in Wyoming. May 28, 1990 through August 30, 1990.
- George Midla, Bachelors Candidate, University of South Maine. Botany, herbarium work-identification of African Violet species. May 28, 1990 through August 11, 1990.
- Camille Mojica, Bachelors Candidate, University of Texas. Vertebrate Zoology, systematic review of the fish genus Dermogenys. May 29, 1990 through August 3, 1990.
- James Nix-Gomez, High School, Thomas Jefferson High School f o r Science and Technology. Anthropology, The Powers Phase Project os am archaeological study of two Mississippian

- sites (ca. AD 1300), Turner and Snodgrass, that are located in Missouri. Descriptive and spatial information about the artifacts from the sites will be computerized using DBase and AutoCad programs, as a first step in this long term analysis. November 24, 1989 through November 30, 1990.
- Deirdre O'Leary, Bachelors Candidate, George Washington University. Mammals, determining precise geographic locations for strandings of cetaceans in order to see if they correlate with species or time of the year. October 2, 1989 through July 31, 1990.
- Sarah Olson, High School Graduate. Exhibits, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.
- Paul Oryem, Bachelors Candidate, Oakwood College. Botany, Cameroon Commelinaceae Project. December 4, 1989 through December 22, 1989.
- Ronald Pond, Masters Candidate, Oregon State University. Anthropology Archives, research tribal history of the Umatilla, Walla Walla and Cayuse tribes of northeastern Oregon. October 4, 1989 through December 8, 1990.
- Ambar Pramono, Masters Candidate, University of Indonesia. Anthropology, develop and process all the remaining negatives in the Pelzer Collection. January 8, 1990 through March 3, 1990.
- Rodolfo Quiros F., Bachelors Candidate, Iowa State University. Botany, flora of St. John Island, Virgin Islands-processing field collection stored at the Museum, make labels, distribute duplicates, and determine updates; search for literature and type specimens and learn to solve nomenclatural problems. May 28, 1990 through August 11, 1990.
- Eugene Ray, Bachelors Candidate. Anthropology, Native American music/artifacts. June 11, 1990 through August 31, 1990.
- Natalie Redwood, High School Student, Theodore Roosevelt High School. Education, work as receptionist with clerical assignments; work in staffed education facilities (Naturalist Center and Discovery Room) providing assistance to visitors as well as staff. June 25, 1990 through August 17, 1990.
- Sarah Rivera, Bachelors Candidate, Virginia Tech University. Naturalist Center, complete learning lab in human osteology; inventory of primate osteology collection; begin development of learning lab in primate osteology. June 7, 1990 through August 31, 1990.
- Gail Robson, Bachelors Candidate, Virginia Commonwealth University. Anthropology, check the collection information gathered to date for the Comanche and Klamath Tribal Catalogs for accuracy and completeness. June 4, 1990 through July 23, 1990.
- James Rondeau, Bachelors Candidate, Middlebury. Development, research for Natural History National Council, development projects and general office work for fundraising activities.

- February 1, 1990 through April 27, 1990.
- Pamela San Miguel, Bachelors Candidate, University of California, Berkeley. Paleobiology, research on East African mammals from the Pleistocene to recent as to their ecomorphic characteristics for a database on evolution of terrestrial ecosystems. June 4, 1990 through August 10, 1990.
- Richard Schneider, Bachelors Candidate, Hampshire College. Vertebrate Zoology, studies in dwarfism and gigantism of rodent skulls. May 29, 1990 through August 3, 1990.
- Betsy Schumann, Bachelors Candidate, College of William and Mary. Anthropology, organize, catalogue, and reconciling the human skeleton collections through the establishment of a data base systems to be accessible by all departments in the museum. June 11, 1990 through August 17, 1990.
- Ruth Siaca-Colon, Bachelors Candidate, University of Puerto Rico. Vertebrate Zoology, population and life history characteristics of a tropical arboreal snake. May 29, 1990 through August 3, 1990.
- Michael Sisson, Bachelors Candidate, George Mason University. Botany, projects in Pacific Island plants. February 7, 1990 through February 7, 1991.
- Sandra Slemmer, Bachelors Candidate, George Washington University. Anthropology, assist in cleaning and processing of the bones from the cemetery of a 19th century German population located in Pittsburgh, PA; completion of the task will lead to the eventual analyzation of the burials by Dr. Douglas Ubelaker so that conclusions concerning stature, disease, and other biological characteristics can be made. September 17, 1990 through December 31, 1990.
- Michael Spencer, Bachelors Candidate, University of Central Florida. Botany, Bromeliad floristics: a revision of the genus Guzmania to be published as a supplement to the monograph on Bromeliaceae. May 28, 1990 through August 11, 1990.
- Ashley Stroupe, Bachelors Degree, Pitzer College. Anthropology, aid in the planning of a new exhibit exploring the origins of humans. July 3, 1990 through December 31, 1990.
- Dwayne Sylvester, Bachelors Degree, State University of New York at Buffalo. Department of Anthropology, study the co-operation and difference that exist between Native American Peoples and museums. October 30, 1989 through February 16, 1990.
- Christopher Taylor, High School Student, H.D. Woodson Senior High School. Education, develop materials for teachers on endangered species, activities include use of office machine, drafting, and preparation of art work. June 25, 1990 through August 17, 1990.
- Kerry Thomson, Bachelors Candidate, University of Montana. Vertebrate Zoology-Mammals, determination of speciation of *Dasyprocta punictata* on the Bolas de Toro Islands off the eastern coast of Panama. June 8, 1990 through August 3, 1990.
- Tasha Tisdale, Bachelors Candidate, University of Maryland. Botany, isozyme electrophoresis and pollen ultrastructure.

- May 28, 1990 through August 11, 1990.
- Gusti Rake Panji Tisna, Bachelors Degree, Colorado College.
Botany, anatomy of Commelinaceae. May 28, 1990 through August 11, 1990.
- Meggan Towell, Bachelors Candidate, Manhattanville College.
Education, work with volunteer docent program, help with public events, organize materials for schools, teachers, and general public. February 1, 1990 through May 15, 1990.
- Mary Turner, Bachelors Degree, Mount Holyoke College.
Mineral Science, prepare a database documenting the photograph collection of the Smithsonian Volcanological Archives, and helps build a volcanology bibliography. June 18, 1990 through August 31, 1990.
- Christopher Unterkofler, Bachelors Degree, Long Island University. Marine Systems, operation, maintenance, fieldwork for Chesapeake Bay and Florida Everglades mesocosms; field operations for Biosphere II project; crew aboard R/V "Marsys' Resolute" research vessel. February 12, 1990 through July 31, 1990.
- Laura Vogel, High School Graduate. Marine Systems Lab, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.
- Kristina Waalkens, Bachelors of Science in Education. Education, develop pre- and post-visit activities for the teacher guide that accompanies the Rocks and Minerals school tour and laboratory. March 2, 1990 through May 30, 1990.
- Amy Weir, Masters Candidate, George Washington University. Conservation Lab, design mounts for rehousing a collection of Pakistan horse riding equipment. May 2, 1990 through July 31, 1990.
- Anne Weshinsky, Bachelors Candidate, University of Michigan. Anthropology, provide administrative support and research assistance for several projects in the Native American Program. September 10, 1990 through December 16, 1990.
- Karen White, Bachelors Candidate, Dartmouth College. Minerals, participation in the evaluation of the development process for the new exhibit halls: "Gems, minerals, and geology", including planning, funding, design, and content. January 10, 1990 through March 13, 1990.
- Andrea Winbauer, Bachelors Candidate, Carleton College. Botany, Cameroon Commelinaceae Project. December 4, 1989 through December 22, 1989.

NATIONAL PORTRAIT GALLERY

- Cheryl Anderson, Bachelors Candidate, Colorado State University. Office of Exhibitions, research and data entry for National Portrait Gallery exhibitions history project. Some possible research on upcoming exhibitions, ordering of reproductions for catalogs and exhibition design notebooks. January 22, 1990 through March 3, 1990.
- Carla Boyson, Bachelors Degree, Southwest Baptist University. Design and Production, assist with preparation of graphic

- and written materials necessary for scheduling and producing upcoming exhibits; assist supervisor of graphics, cabinet shop, and designers. June 11, 1990 through August 24, 1990.
- David Brody, Bachelors Degree. Peale Family Papers, historical editing, documentary editing. June 11, 1990 through August 17, 1990.
- Claudia Cohen, Bachelors Candidate, Duke University. Rights and Reproduction, assist with correspondence with publishers, check color proofs (chromalins), assure the recent acquisitions are photographed, review reproductions of Portrait Gallery images in publications. June 4, 1990 through August 3, 1990.
- Kristen Crean, Bachelors Candidate, Smith College. Peale Papers, assist with Charles Wilson Peale Papers. September 4, 1990 through December 21, 1990.
- Constance Dendy, High School Student, Duke Ellington High School. Office of Education, assist with arrangements and schedules for public programming, specifically "Cultures in Motion"; assist with research for program brochures. July 2, 1990 through August 31, 1990.
- Edna Dixon, Bachelors Candidate, Howard University. Office of Education, adapt two existing secondary programs for use in college classrooms: "Yet Do I Marvel", a study of African-American writers, and "I, Too, Am America", a study of the Harlem Renaissance. September 5, 1990 through December 5, 1990.
- Mary Dunton, Bachelors Candidate, Princeton University. Publication, proof reading, keyboarding text, organizing and checking of photos for illustrations, and filling in with text, deciding about photo sizing, checking layouts at several stages, indexing, and verifying information intent, all under deadline pressure. June 25, 1990 through August 3, 1990.
- Alison Garwood-Jones, Bachelors Degree, Queens University. Education Department, documentary editing: Training in preparing, researching, and annotating selected papers of Charles Willson Peale and his family for eventual publication. May 14, 1990 through August 31, 1990.
- Richard Graw, Masters Candidate, California State University-Hayward. Exhibitions, continuation of computerization of exhibition history. June 18, 1990 through September 8, 1990.
- Wayne Greene, High School, School Without Walls. Education Department, Xerox, file, library cards, special projects, put library in order. May 2, 1990 through June 1, 1990.
- Abigail Goldberg, Bachelors Candidate, Smith College. Peale Family Papers, Rembrandt Peale Catalogue Raisonne - research in biography, artistic provenances, urban history, 1820-1860. January 30, 1990 through June 1, 1990.
- Lynn Harden, High School Student, Dunbar High School. Education, daily office duties; xeroxing, typing, filing, etc.; research of portraiture and historical dramatization. June 25, 1990 through August 17, 1990.
- Andrea Johnson, High School Student, Anacostia Senior High

- School. Education, daily office duties: xeroxing, typing, filing, etc.; research of portraiture and historical dramatizations. June 22, 1990 through August 17, 1990.
- Susannah Kent, Masters Candidate, George Washington University. Peale Family Papers, Rembrandt Peale Catalogue Raisonne': research in biography, artistic provenances, urban history, 1820-1860; exhibit planning. June 12, 1990 through August 31, 1990.
- Tamara Ketabgian, Bachelors Candidate, Harvard University. Public Relations, research and target press contacts for exhibition on Andrew Jackson; draft background piece and/or press release; help plan and prepare other press materials; research list of invitees for opening; research and refine press list for "Camera Portraits"; update scrapbooks; answer routine requests. June 4, 1990 through July 28, 1990.
- Elizabeth Kidd, Bachelors Candidate, University of Texas. Director's Office, research on an anticipated exhibition titled "World's Columbian Exposition", which is being held jointly by the National Portrait Gallery and the National Museum of American Art. June 4, 1990 through September 1, 1990.
- Leslie Kossoff, Bachelors Candidate, Boston University. Photo Lab, photograph flat copy, exhibit areas, public relations activities, portraits, etc. using large and small format cameras; lab work including all types of black and white processing. May 21, 1990 through August 15, 1990.
- Eileen Langholtz, Masters Candidate, George Washington University. Education, assist the education department and an independent contractor with the development of a grant proposal to create a puppet show to serve families on weekends at both the National Portrait Gallery and the National Museum of American Art. Also assist the public program manager on an as needed basis. January 16, 1990 through April 27, 1990.
- Ty McClain, High School Student, School Without Walls. Education Department, telephone, filing, special projects. September 13, 1990 through January 25, 1991.
- Leslie McCoy, Bachelors Candidate, Fisk University. Catalogue of American Portraits, day-to-day operations. June 4, 1990 through August 10, 1990.
- Monica Miller, Bachelors Candidate, Dartmouth College. Education Department, development of education program for use by high school English and/or American Civilization students. Program will relate to authors whose portraits are in permanent collection. Project involves development, implementation, and participation in evaluation of program. March 26, 1990 through June 6, 1990.
- Tulaine Montgomery, Bachelors Candidate, Smith College. Department of History, American Musical Theatre. September 4, 1990 through December 21, 1990.
- Lee Morris III, High School Student, Coolidge Senior High School. Education, daily office duties: xeroxing, typing, filing, etc.; research of portraiture and historical dramatizations.

June 25, 1990 through August 17, 1990.

Steven Mosley, High School, School Without Walls. Education, organize education department's library, establish a card file for the library, type and answer telephones, deliver and distribute mail. February 9, 1990 through June 6, 1990.

Alice Padwe, Bachelors Degree. Office of Exhibitions, research to obtain information for database file on National Portrait Gallery exhibitions. August 13, 1990 through November 13, 1990.

Michelle Parker, Bachelors Degree, Howard University. Education, research historical figures, i.e. Geronimo and locate existing portraits of this figure in order to determine inclusion in Gallery's collection. June 4, 1990 through August 3, 1990.

Karen Pignataro, Masters Candidate, George Washington University. Painting and Sculpture, augment research on the artist and the objects, to prepare label copy for the Hall of Presidents. January 22, 1990 through May 2, 1990.

Gwendolyn Ponder, High School Graduate. Office of the Historian, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Alexandra Rado, Bachelors Degree. Office of Design and Production, assist production manager and assistant chief of design with the preparation of both scheduling and graphic production work necessary to complete planned exhibits. September 10, 1990 through December 31, 1990.

Yelena Rakic, Bachelors Candidate, Barnard College. Education, develop all program aspect of the Culture in Motion series focusing on programming for the Asian American Community. July 3, 1990 through August 10, 1990.

Elizabeth Reasoner, Bachelors Degree. Catalogue of American Portraits, collect data on portraits held publicly and privately across the United States; research artist biographies; answer inquires from scholars and the general public. September 4, 1990 through May 31, 1991.

Leslie Reinhardt, Bachelors Degree, Princeton University. Painting and Sculpture, research assistant on systematic catalogue. June 18, 1990 through August 10, 1990.

Patrick Richardson, High School Student, Woodrow Wilson High School. Education, daily office duties: xeroxing, typing, filing, etc.; research of portraiture and historical dramatization. June 25, 1990 through August 17, 1990.

Jennifer Saffer, Bachelors Candidate, University of Kansas. Catalogue of American Portraits, verify and correct artists' names and life dates. June 4, 1990 through August 17, 1990.

James Smith, High School Student, Calvin Coolidge Senior High School. Education, daily office duties: xeroxing, typing, filing, etc.; research of portraiture and historical dramatizations. June 25, 1990 through August 17, 1990.

Antonio Soto, High School, School Without Walls. American Portraits, assist staff of Catalog of American Portraits in maintaining and updating the portrait files. Duties include

filing, matching photos to files, matching automated labels to files, making new labels. February 12, 1990 through June 1, 1990.

Tracy Stewart, High School Student, School Without Walls. Education, typing using IBM PC, mail distribution, xeroxing, answering phones. February 7, 1990 through June 18, 1990.

Tracy Stewart, High School Student, School Without Walls. Department of Education, filing, word processing, xeroxing, reports, typing, answering phones, other office jobs. September 11, 1990 through January 1, 1991.

Claire Tieder, Masters Candidate, George Mason University. Painting and Sculpture, assist with research for an upcoming exhibition, jointly organized by NPG and NMAA, which will feature a selection of American paintings and sculptures shown at the World's Columbian Exposition, held in Chicago in 1893. September 10, 1990 through December 14, 1990.

Diane Waggoner, Bachelors Candidate, Stanford University. Catalogue of American Portraits, day-to-day research operations. June 25, 1990 through August 24, 1990.

Frank Weathers, High School Student, Calvin Coolidge High School. Education, daily office duties: xeroxing, typing, filing, etc.; research of portraiture and historical dramatization. June 25, 1990 through August 17, 1990.

Keenan West, High School Student, School Without Walls. Department of Education, xeroxing, filing, duties as assigned. September 18, 1990 through January 25, 1990.

OFFICE OF THE ASSISTANT SECRETARY FOR MUSEUMS

Karen Henderson, Bachelors Candidate, University of Florida. Assist with planning and organizing meeting of the ICOM Committee for the Training of Personnel; prepare program, fill packets, record keeping, bibliography, etc. June 6, 1990 through August 10, 1990.

OFFICE OF EXHIBITS CENTRAL

Andre Freitas, High School Graduate. Model Shop, make copies of life masks for installation on mannequins; general molding, and shop work using fiberglass and rubber compounds. June 11, 1990 through August 3, 1990.

James Hale, High School Graduate. Fabrication Unit, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Craig Locklear, Bachelors Degree. Fabrication, learn production methods in plexiglass fabrication. February 5, 1990 through February 16, 1990.

Laura Rothage, Bachelors Degree. Fabrication, exhibit design and installation; work on installation of several exhibits as well as in the fabrication shop. September 10, 1990 through December 21, 1990.

Panayia Savvides, Architect. Exhibit Production Shops, work in

exhibit production shops and receive training in graphics, model shop, and fabrication. August 6, 1990 through September 23, 1990.

OFFICE OF HORTICULTURE

- Janet Aldrich, High School Graduate. Greenhouse/Nursery Division, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.
- David S. King, Bachelors Candidate, University of Maryland. Administration and Grounds Divisions, work on plans for the renovation of the Freer courtyard and assist with maintenance of the Ripley Garden and the Haupt Garden. June 4, 1990 through August 17, 1990.
- Paula K. McCloskey, Bachelors Candidate, University of Maryland. Administrative, draft garden plans and/or flowerbed designs for seasonal plantings and areas being renovated on the Smithsonian grounds. June 18, 1990 through August 24, 1990.
- Ralph M. Russell, Jr., Bachelors Candidate, Murray State University. Greenhouse/Nursery Division, coordinate the special event program by determining what plants will be used, preparing them for use, scheduling delivery and pickup, and assuring that follow up reports are completed. May 28, 1990 through August 17, 1990.

OFFICE OF FOLKLIFE PROGRAMS

- Douglas Bell, Bachelors Degree, University of Virginia. Folkways archival duties and documentary video production on the Senegal wrestling event (lambe) at the Folklife Festival. June 18, 1990 through September 1, 1990.
- Gretchen Brodtman, Bachelors Candidate, New College of the University of South Florida. Research about folklife festival cookbook. February 12, 1990 through May 1, 1990.
- Robert Clyne, Masters Candidate, Yale University. Education, work on Senegalese and U.S. Virgin Island Folk Art. June 4, 1990 through August 17, 1990.
- Caroline Cohen. Folklife Festival, provide assistance with all aspects of the program- Music of Struggle. April 16, 1990 through July 15, 1990.
- Guylene Desir, High School Student, Bell Multicultural High School. Work with the staff in planning and production of the festival: assist a program coordinator compiling participant packages and schedules and developing program supply lists; assist the crew in preparing festival site; assist craft participants during the festival; assist in the post-festival wrap-up work. June 18, 1990 through August 10, 1990.
- Lisa Fisher, High School Graduate. Participant in Intern 90, Office of Elementary and Secondary Education's national summer intern program. June 4, 1990 through July 6, 1990.
- Robert Forman, Bachelors Degree. Folkways Collection, assist in the preservation and production of folkways records in the

office of Folklife Programs. October 23, 1989 through September 1, 1990.

Rhonda Greene, Masters Candidate, Brown University. Education, compile information of Massachusetts Folklife Festival for Massachusetts teachers and compile National Folklife Directory. June 4, 1990 through August 24, 1990.

Christopher Jerde, Bachelors Degree, Brown University. Catalogue the 700-800 ethnic folkways recordings in preparation for a specialized catalogue of Smithsonian/Folkways Records. June 3, 1990 through December 30, 1990.

Derek Kauneckis, Bachelors Candidate, University of California-Davis. Assist with the Senegal Program at the Festival of American Folklife. June 14, 1990 through August 28, 1990.

Carla Mendiola, Bachelors Candidate, Rice University. Quincentenary Program, work on the Festival of American Folklife Virgin Island events; research for 1991 festival. June 4, 1990 through August 3, 1990.

Jean Mitchell, Masters Candidate, American University. Assistant to the Director of the Festival of American Folklife: coordinate information booth staff, prepare and provide information re: festival highlights and disabled services to information kiosks. May 14, 1990 through August 17, 1990.

Sarah Noble, High School Student, Georgetown Day High School. Festival, assist on research for Folklife Festival; assist participants and general help in putting on festival and followup; meet public and participants. July 2, 1990 through August 31, 1990.

Rudolfo Pereira, Continuing Education, Georgetown University. Folklore, cataloguing music of the Soviet Union collected during the 1988 Festival of American Folklife. October 2, 1989 through June 5, 1990.

Jane Smith, Bachelors Candidate, Smith College. Folklife, research and organization of Folklife Cook Book. January 4, 1990 through January 24, 1990.

Paola Tassara, High School Student. Assistance with the Virgin Islands program at the 1990 Festival of American Folklife. June 18, 1990 through August 15, 1990.

Cynthia Thorn, Bachelors Degree. Intern with Folklore Summer Institute. June 6, 1990 through July 20, 1990.

OFFICE OF MUSEUM PROGRAMS

Ann-Marie Munin, Bachelors Candidate, Vanderbilt University. Interns, assist in development and implementation of the career program and other programs for SI interns. June 4, 1990 through August 17, 1990.

OFFICE OF PUBLIC AFFAIRS

Rebecca Andrews, High School Graduate. Participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

M.Kelly Greene, Bachelors Candidate, Wake Forest University.

News Bureau, write press releases, interview, write articles for in-house newsletter. July 30, 1990 through August 25, 1990.

Kira Harris, Bachelors Candidate, Hampton University. News Bureau, News Bureau assignments. June 4, 1990 through August 24, 1990.

Aida Hernandez, High School Student, Benjamin Banneker High School. Hispanic Public Affairs, assist the Hispanic public affairs specialist in processing news releases, a calendar of events, and news clippings; will be responsible for revising files and updating mailing lists. June 18, 1990 through August 10, 1990.

Rebecca Higbee. News Bureau, public affairs assistant, publicity campaigns, target audiences, press releases, features, public service announcements. August 27, 1990 through December 18, 1990.

Jennifer Langdon, High School Graduate. Participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.

J. Christopher Packard, Masters Candidate, University of Southwest Louisiana. General assignments in the news bureau and publications (writing press releases, preparing press kits, and publicity reports). January 29, 1990 through May 5, 1990.

Robert Tenequer, Jr., Bachelors Degree. News Bureau, a key role in developing a media outreach effort by the Smithsonian to the national American Indian community. October 30, 1989 through August 4, 1990.

OFFICE OF THE REGISTRAR

Jackie Cohen, Bachelors Candidate, Macalester College. develop a repertoire/library of information resources in support of fundraising for C.I.S. projects by 1) developing resource material for fundraising proposals, 2) determining potential sources of funding, and 3) outlining possible projects. May 31, 1990 through August 22, 1990.

Jill Heyer, Masters Candidate, George Washington University. Coordinate the production of the Museum Computer Network's annual conference and prepare course materials and evaluations for a museum automation workshop for the Museum Studies Program at the George Washington University. January 29, 1990 through April 28, 1990.

Tineke van den Polder, Masters Candidate, University of Rotterdam. Review of SI and national policy on deaccessioning. July 2, 1990 through August 31, 1990.

SMITHSONIAN INSTITUTION TRAVELING EXHIBITION SERVICE

Soo Hyun Cho, Bachelors Candidate, Georgetown University. Program Division, Assist project coordinators with international exhibitions. March 28, 1990 through August 31, 1990.

- Christina del Carmen, Bachelors Degree, Washington University. Program, provide editorial and administrative support to the "Tropical Rainforests Newsletter" and assist in SITES office of public affairs. June 4, 1990 through September 28, 1990.
- Melanie Gilroy, Bachelors Candidate, Occidental College. International, work with every person in charge of departments within SITES. June 11, 1990 through August 31, 1990.
- Lisa Malinsky, Bachelors Candidate, College of William and Mary. Program, provide research and administrative support to an exhibition team, for a variety of projects. May 30, 1990 through August 31, 1990.
- Michelle Mooney, Bachelors Candidate, Auburn University. Program, provide research and administrative support to the Assistant to the Director and participate in exhibition proposal review and exhibition marketing. June 18, 1990 through August 27, 1990.
- Colin Murray, Bachelors Degree. Exhibition Development, Evaluate a large find of material gathered on Inventor Association, competition and curricula; facilitate and coordinate time of Invention and Creativity Convention with "Real McCoy" exhibitors. Identify specific associations with which SITES can develop exhibition related programs. May 7, 1990 through July 27, 1990.
- Lisa Nellor, Bachelors Candidate, Stanford University. Program, provide research assistance to the development of an exhibition that explores racial stereotypes. September 19, 1990 through December 7, 1990.
- Lorena Riba, Bachelors Degree, New York University. Program, provide research and administrative assistance to the exhibition team working on the exhibition "Contrasts: 40 Years of Change and Continuity in Puerto Rico, photographs by Jack Delano". May 29, 1990 through August 3, 1990.
- Larissa Rippley, Bachelors Candidate, St. Olaf College. Program, provide research and administrative support to the development of a traveling version of the Anacostia Museum exhibition THE REAL MCCOY: AFRO-AMERICAN INVENTION AND INNOVATION, 1619-1930. January 2, 1990 through February 2, 1990.
- Mary Sipper, Masters Degree. Program, research assistance for international exhibitions. September 17, 1990 through May 31, 1990.
- Tamara Taylor, Bachelors Candidate, University of California-Santa Cruz. Compile information for a resource guide for the exhibit "Climbing Jacob's Ladder". July 2, 1990 through September 21, 1990.

EXTERNAL AFFAIRS

NATIONAL DEMONSTRATION LABORATORY

- Clare Christopher, Visiting Professional. Develop educational programs in conjunction with interactive videos. June 19,

1990 through August 31, 1990.

OFFICE OF THE ASSISTANT SECRETARY FOR EXTERNAL AFFAIRS

Muhammed Hussain, Masters Candidate, Fordham University. Debt Swap Unit, provide research, administrative and clerical support to the Debt Swap Unit of the International Center. July 23, 1990 through September 4, 1990.

OFFICE OF MEMBERSHIP AND DEVELOPMENT

Elizabethine McClure, Bachelors Candidate, Duke University. Compiling information on special events, programs, and high level Smithsonian staff travel plans for a specified period of time to develop a Smithsonian-wide calendar for use in fund raising efforts. May 22, 1990 through June 22, 1990.

OFFICE OF TELECOMMUNICATIONS

Demond Johnson, High School, School Without Walls. Television Production, locating and logging information on three different computer systems. November 13, 1989 through June 30, 1990.

Irina Robertson, Masters Degree, American University. Audio/Visual Productions, production assistant for television series, "Here at the Smithsonian", as well as other television and film projects for the Office of Telecommunications. October 2, 1989 through December 15, 1989.

RESIDENT ASSOCIATE PROGRAM

Amy Beal, High School Graduate. Discovery Theater, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.

Betsy Bradfield, Bachelors Candidate, University of Colorado. Public Affairs, archiving, writing press releases, etc. July 2, 1990 through August 20, 1990.

Mia Cohen, Bachelors Candidate, Brown University. Lectures/Films, assist lecture/film office with program preparation, organization, and publicity. June 6, 1990 through August 17, 1990.

Sarah Coughlan, High School Graduate. Young Associates, oversight for scholarship material; analyze kite festival, performing arts series, film guides, and tour materials for future planning; inventory audio and videotapes; liaison with summer camp. April 24, 1990 through July 24, 1990.

Amy Hawkins, Bachelors Candidate, University of Arizona. Public Affairs, participate in daily activities of the Public Affairs Office : archiving, publicity, information on RAP events, disseminate information to the media and community;

participate in actual execution of public affairs activities and events. May 21, 1990 through July 21, 1990.

Catherine Lavigna, Bachelors Candidate, University of Michigan. Assist the supply manager for Studio Arts and Young Associates with general office work as well as work on special organizational projects. June 11, 1990 through August 4, 1990.

Molly Mitchell, Bachelors Candidate, Vanderbilt University. Studio Arts, assist manager in office work-data entry, filing, answering phones; work on computer graphics symposium with department personnel-public relations and clerical. June 11, 1990 through August 16, 1990.

Jodi Skolnick, Bachelors Candidate, Northeastern University. Public Affairs, participate in daily activities of the public affairs office. Duties include archiving, preparation of publicity and information on RAP events, dissemination to the media and the community. Also participates in the actual execution of public affairs activities at RAP events. January 4, 1990 through March 25, 1990.

Marie Theriault, Bachelors Candidate, University of Georgia. Volunteers, provide support to volunteer office in performing such volunteer scheduling, recruitment, and development of communication materials (e.g. newsletter, etc.). July 9, 1990 through September 31, 1990.

Cautio Warner, Bachelors Candidate, Hampton University. Public Affairs, archive; preparation of publicity and information on RAP events; dissemination of information to the media and the community; participate in the execution of public affairs activities at RAP events. May 1, 1990 through July 1, 1990.

SMITHSONIAN INSTITUTION PRESS

Andrew Howell, Bachelors Candidate, University of Pennsylvania. Recording, assist with all aspects of the recording department. May 25, 1990 through August 25, 1990.

Nancy McKinney, Museum Professional, California Afro-American Museum. University Press, assist the Smithsonian collections to determine the availability of materials that could help tell the multicultural American story to children ages 8 to 12. September 11, 1990 through November 2, 1990.

Gwendolyn Moodispaw, Bachelors Candidate, North Carolina State University. Books, work on various aspects of the publication process. June 4, 1990 through August 17, 1990.

Amy Stewart, High School Graduate. Recordings, participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

SMITHSONIAN NATIONAL ASSOCIATES PROGRAM

Sarah Collum, Bachelors Candidate, Colgate University. Study

Tours and Seminars, Study tours and seminar coordination.
June 19, 1990 through August 1, 1990.
Duddow Pinchaleaw, Masters Candidate, George Washington
University. Travel, foreign tours study. June 25, 1990
through August 10, 1990.
Alexandra Price, Bachelors Candidate, Tulane University.
Organizing a benefit for the young benefactors. July 2,
1990 through August 14, 1990.
Jada Snyder, Masters Candidate, George Washington University.
Study tours and seminars, marketing analysis of study tours.
May 15, 1990 through August 18, 1990.

ADMINISTRATION

OFFICE OF ARCHITECTURAL HISTORY AND HISTORIC PRESERVATION

Robert Esau, Bachelors Degree, Bryn Mawr College. Research
architectural history of Smithsonian Building. June 4, 1990
through August 10, 1990.

OFFICE OF INFORMATION RESOURCES MANAGEMENT

Kevin Scott, High School Graduate. Office Applications Group,
participant in Intern 90, Office of Elementary and Secondary
Education's national summer internship program. July 9,
1990 through August 10, 1990.

OFFICE OF PERSONNEL

Khalif Ford, High School Student, Deerfield Academy. Operations
Division, assist with overall operations of qualifying
candidates for employment, data transcribing, etc. July 2,
1990 through August 31, 1990.

LaTanya Inman, High School Student, Banneker High School.
Staffing Services Branch, assist with the clerical and
filing activities. July 2, 1990 through August 31, 1990.

OFFICE OF PLANT SERVICES

Steven Troxel, High School Graduate. Vehicle Repair Section,
participant in Intern 90, Office of Elementary and Secondary
Education's national summer internship program. July 9,
1990 through August 10, 1990.

OFFICE OF PRINTING AND PHOTOGRAPHIC SERVICES

Kathleen Araskog, Bachelors Candidate, Duke University.
Photography, studio, location, and historic documentation
photography (black & white and color laboratory techniques).
May 29, 1990 through August 3, 1990.

Corinne Bonaccorso, High School, South Lakes High School.
Photography Division, assist senior photographers in studio
location and historic documentation photography (black and
white and color laboratory techniques. February 5, 1990

through June 11, 1990.

Chad Hayworth, High School Graduate. Participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. June 4, 1990 through July 6, 1990.

Sarah King, High School Graduate. Participant in Intern 90, Office of Elementary and Secondary Education's national summer internship program. July 9, 1990 through August 10, 1990.

Andrea Marchese, Bachelors Candidate, Randolph Community College. Photographic Services, studio, location, and historic documentation photography (Black and white, and color laboratory techniques. October 16, 1989 through November 17, 1989.

Susan Steffes, Bachelors Candidate, Randolph Community College. Photographic Services, studio, location, and historic documentation photography (black and white, and color laboratory techniques. October 16, 1989 through November 17, 1989.

Christine Storer, Bachelors Candidate, Brigham Young University. Photography Laboratory, work in the photography laboratory and with photographers on location. November 20, 1989 through January 8, 1990.

Ellen Styers, Bachelors Candidate, Randolph Community College. Photographic services, studio, location, and historic documentation photography (black and white, and color laboratory techniques. October 16, 1989 through November 17, 1989.

Roger Weinstein, Bachelors Candidate, Randolph Community College. Photographic services, studio, location, and historic documentation photography (black and white, and color laboratory techniques. October 16, 1989 through November 17, 1989.

Appendix 4

Publications of the Smithsonian Institution Press in Fiscal Year 1990

During fiscal year 1990 the Smithsonian Institution Press released nearly two hundred publications, including trade books, exhibition catalogs, monographs, brochures, pamphlets, videos, and sound recordings, the most important of which are listed below.

UNIVERSITY PRESS TRADE BOOKS

- Baker, David N., editor. New Perspectives on Jazz. January 1990.
- Boime, Albert. The Art of Exclusion: Representing Blacks in the Nineteenth Century. March 1990.
- Broun, Elizabeth. Albert Pinkham Ryder. October 1989.
- Calhoun, Frederick, S. The Lawmen: United States Marshals and Their Deputies, 1789-1989. May 1990.
- Cole, Herbert, M. Icons: Ideals and Power in the Art of Africa. February 1990.
- Cordell, Linda S., and George J. Gumerman, editors. Dynamics of Southwest Prehistory. October 1989.
- Delano, Jack. Puerto Rico Mio: Four Decades of Change. April 1990.
- Fish, Suzanne K., and Stephen A. Kowalewski, editors. The Archaeology of Regions: The Case for Full-Coverage Survey. February 1990.
- Fowler, Don D. The Western Photographs of John K. Hillers: Myself in the Water. November 1989.
- Funk, V.A., and Daniel R. Brooks. Phylogenetic Systematics as the Basis of Comparative Biology. September 1990.
- Gibbons, J. Whitfield. Life History and Ecology of the Slider Turtle. April 1990.
- Hallion, Richard P. Strike from the Sky: The History of Battlefield Air Attack, 1911-1945. October 1989.
- Hardy, Rex. Foreward by Vice Admiral Donald D. Engen. Callback: NASA's Aviation Safety Reporting System. May 1990.
- Hartigan, Lynda Roscoe. Made with Passion: The Hemphill Folk Art Collection in the National Museum of American Art. September 1990.
- Hein, Hilde. The Exploratorium: The Museum as Laboratory. May 1990.
- Hoage, R.J., editor. Preface by R.J. Hoage. Introduction by David Challinor. Perceptions of Animals in American Culture. October 1989.
- Hudson, Charles. The Juan Pardo Expeditions: Exploration of the Carolinas and Tennessee, 1566-1568. April 1990.
- Jakab, Peter L. Foreward by Tom D. Crouch. Visions of a Flying Machine: The Wright Brothers and the Process of Invention. April 1990.
- James, Portia. The Real McCoy: African-American Invention and Innovation, 1619-1930. June 1990.
- Johnsgard, Paul A. Hawks, Eagles, & Falcons of North America: Biology and Natural History. September 1990.
- Kan, Sergei. Symbolic Immortality: The Tlingit Potlatch of the Nineteenth Century. December 1989.
- Karp, Ivan, and William L. Merrill, series editors. Ambiguous Relations: Kin, Class and Conflict Among Komachi Pastoralists. May 1990.

- Lebow, Eileen F. Cal Rodgers and the Vin Fiz: The First Transcontinental Flight. October 1989.
- Leuthner, Stuart, and Oliver Jensen. High Honor: Recollections by Men and Women of World War II Aviation. October 1989.
- Lindstrom, Lamont, and Geoffrey M. White. Island Encounters: Black and White Memories of the Pacific War. September 1990.
- Manthorne, Katherine Emma. Tropical Renaissance: North American Artists Exploring Latin America, 1839-1879. October 1989.
- Metcalf, Peter. Where Are You/Spirits: Style and Theme in Berawan Prayer. October 1989.
- Moser, Joann. Visual Poetry: The Drawings of Joseph Stella. March 1990.
- O'Connor, Diane Vogt. Guide to Photographic Collections at the Smithsonian Institution, Vol. I: National Museum of American History. December 1989.
- Page, Jake. Smithsonian's New Zoo. April 1990.
- Peck, Robert S., editor. To Govern a Changing Society: Constitutionalism and the Challenge of New Technology. May 1990.
- Postcard Book: Children of Long Ago. November 1989.
- Postcard Book: Dogs and Puppies. November 1989.
- Postcard Book: Hirshhorn Museum and Sculpture Garden. October 1989.
- Postcard Book: Modern American Abstraction. October 1989.
- Postcard Book: National Museum of American History. November 1989.
- Robbins, Warren M., and Nancy Ingram Nooter. African Art in American Collections. November 1989.
- Roze, Uldis. The North American Porcupine. October 1989.
- Sabrosky, Curtis W., Gordon F. Bennett, and Terry L. Whitworth. Bird Blow Flies (Protocalliphora) in North America: (Diptera: Calliphoridae), with Notes on the Palearctic Species. January 1990.
- Saunders, Steven, and Deane L. Root. The Music of Stephen C. Foster. September 1990.
- Smith, Bruce, D., editor. The Mississippian Emergence. July 1990.
- Smith, Nancy Keagan, and Mary C. Ryan, compilers and editors. Modern First Ladies: Their Documentary Legacy. July 1990.
- Stewart, Jeffrey C. To Color America: The Portraits of Winold Reiss. November 1989.
- Stewart, Jeffrey C. Winold Reiss: An Illustrated Checklist of His Portraits. May 1990.
- Sturtevant, William C., general editor; Wayne Suttles, volume editor. Handbook of North American Indians, Vol. 7: Northwest Coast. September 1990.
- Thomas, David Hurst, editor. Columbian Consequences, Vol. 2: Archaeological and Historical Perspectives on the Spanish Borderlands East. July 1990.
- Winter, Frank H. The First Golden Age of Rocketry: Congreve and Hale Rockets of the Nineteenth Century. June 1990.
- Yellin, Victor Fell. Chadwick: Yankee Composer. May 1990.
- Yonemura, Ann. Yokohama: Prints from Nineteenth-Century Japan. July 1990.

Copublications

- Abbott, Berenice. Foreword by Muriel Rukeyser. Introduction by David Vestal. Berenice Abbott: Photographs. April 1990.
- Allen, K.C., and D.E.G. Briggs, editors. Evolution and the Fossil Record. May 1990.
- Bishop, Edward. Hurricane. May 1990.

- Bishop, Edward. Mosquito: The Wooden Wonder. June 1990.
- Bowman, Martin. Wellington: The Geodetic Giant. May 1990.
- Fardon, Richard, editor. Localizing Strategies: Regional Traditions of Ethnographic Writing. July 1990.
- Groover, Jan. Pure Invention: The Table Top Still Life, Photographs by Jan Groover. August 1990.
- Hawkes, J.G. The Potato: Evolution, Biodiversity, and Genetic Resources. April 1990.
- Jackson, Robert. Hawker Hunter: The Operational Record. May 1990.
- Kavanagh, Gaynor. History Curatorship. July 1990.
- Kelly, Franklin, with Stephen Jay Gould and James Anthony Ryan. Frederic Edwin Church. November 1989.
- Maisel, Jay. On Assignment: Photographs by Jay Maisel. August 1990.
- Mark, Mary Ellen. The Photo Essay: Photographs by Mary Ellen Mark. August 1990.
- Meyerowitz, Joel. Creating a Sense of Place: Photographs by Joel Meyerowitz. August 1990.
- Wood, Derek, and Derek Dempster. The Narrow Margin. Revised edition. July 1990.
- Woodman, Harry. Early Aircraft Armament: The Aeroplane and the Gun up to 1918. January 1990.

Distribution Only

- Gellert, Charles Lawrence, compiler. The Holocaust, Israel, and the Jews: Motion Pictures in the National Archives. March 1990.
- Heller, Jonathan, editor. War & Conflict: Selected Images from the National Archives, 1765-1970. July 1990.
- National Archives. Teaching with Documents. May 1990.
- Pearce, Susan M. Archaeological Curatorship. July 1990.
- Schellenberg, T.R. The Management of Archives. May 1990.
- Wehmann, Howard H. Revised by Benjamin L. DeWhitt. A Guide to Pre-Federal Records in the National Archives. May 1990.

Reprints

- Johnson, Clarence L. "Kelly," with Maggie Smith. Foreward by Brigadier General Leo Geary (U.S.A.F. Ret.). Kelly - More than My Share of It All. December 1989.
- Komons, Nick A. Bonfires to Beacons: Federal Civil Aviation Policy under the Air Commerce Act, 1926-1938. October 1989.
- Kunz, Thomas H., editor. Ecological and Behavioral Methods for the Study of Bats. February 1990.
- Mikesh, Robert C. Japan's World War II Balloon Bomb Attacks on North America. August 1990.
- Schweizer, Paula A. Wings Like Eagles: The Story of Soaring in the U.S.A. November 1989.
- Weil, Stephen E. Rethinking the Museum and Other Meditations. May 1990.

SMITHSONIAN BOOKS

- Donovan, Amy, editor. Editor's Choice: Smithsonian, the Best of 20 Years from Smithsonian Magazine. March 1990.
- Viola, Herman J. After Columbus, The Smithsonian Chronicle of the North American Indians. Copublished with Orion Books. June 1990.

Reprints

- Boyne, Walter J. The Smithsonian Book of Flight. 4th printing. January 1990.
Goodwin, Joe, editor. Images of America: A Panorama of History in Photographs. 2nd printing. June 1990.
Minasian, Stan. The Magnificent Whales and Other Marine Mammals of North America. Copublished with Marine Mammal Fund. Video. December 1989.
Viola, Herman J. Exploring the West. 2nd printing. May 1990.

SMITHSONIAN RECORDINGS

- The Art of Roland Hayes. Performed by Roland Hayes and Reginald Boardman. Single compact disc, No. RD 041. February 1990.
J. S. Bach: St. John Passion, Three Works for Solo Harpsichord, Six Sonatas and Partitas for Solo Violin. Performed by Smithsonian Chamber Players and Chorus, Kenneth Slowik, Director; James Weaver; Jaap Schroder. Five compact discs, five cassettes, or six LPs, No. ND 038. February 1990.
W. A. Mozart: Eine kleine Nachtmusik, Ein musikalischer Spass, Horn Quintet in E-flat Major. Performed by Smithson String Quartet with guest artists. Single compact disc, No. ND 039. August 1990.

FEDERAL SERIES PUBLICATIONS

Contributions to Anthropology

34. Taylor, Paul Michael. "The Folk Biology of the Tobelo People: A Study in Folk Classification." 1 June 1990.

Contributions to Botany

71. Goldberg, Aaron. "Classification, Evolution, and Phylogeny of the Families of Monocotyledons." 29 December 1989.
73. Funk, V.A., and Daniel R. Brooks. "Phylogenetic Systematics as the Basis of Comparative Biology." 17 January 1990.
75. Tan, Benito, and Harold Robinson. "A Review of Philippine Hookeriaceous Taxa (Musci)." 25 April 1990.

Contributions to the Marine Sciences

31. Knowlton, Nancy, Judith C. Lang, and Brian D. Keller. "Case Study of Natural Population Collapse: Post-Hurricane Predation on Jamaican Staghorn Corals." 28 June 1990.
35. Miller, John E., and David L. Pawson. "Swimming Sea Cucumbers (Echinodermata: Holothuroidea): A Survey, with Analysis of Swimming Behavior in Four Bathyal Species." 1 June 1990.

Contributions to Paleobiology

67. Emry, Robert J., and William W. Korth. "Rodents of the Bridgerian (Middle Eocene) Elderberry Canyon Local Fauna of Eastern Nevada." 30 November 1989.
68. Buzas, Martin A., and Thomas G. Gibson. "Spatial Distribution of Miocene Foraminifera at Calvert Cliffs, Maryland." 7 March 1990.

Contributions to Zoology

464. Pettibone, Marian H. "Revision of the Aphroditoid Polychaetes of the Family Acoetidae Kinberg (= Polyodontidae Augener) and Reestablishment of

- Acoetes Audoin and Milne-Edwards, 1832, and Euarche Ehlers, 1877." 12 December 1989.
474. Vari, Richard P. "Systematics of the Neotropical Characiform Genus Curimata Bosc (Pisces: Characiformes)." 7 November 1989.
477. Buden, Donald W., and Storrs L. Olson. "The Avifauna of the Cayeries of Southern Cuba, with the Ornithological Results of the Paul Bartsch Expedition of 1930." 20 November 1989.
478. Davis, Donald R. "Generic Revision of the Opostegidae, with a Synoptic Catalog of the World's Species (Lepidoptera: Nepticuloidea)." 23 October 1989.
479. Spangler, Paul J., and Philip D. Perkins. "A Revision of the Neotropical Aquatic Beetle Genus Stenhelmoides (Coleoptera: Elmidae)." 28 December 1989.
480. Hobbs, Horton H., Jr. "An Illustrated Checklist of the American Crayfishes (Decapoda: Astacidae, Cambaridae, and Parastacidae)." 28 December 1989.
481. Vari, Richard P. "Systematics of the Neotropical Characiform Genus Psectrogaster Eigenmann and Eigenmann (Pisces: Characiformes)." 26 December 1989.
484. Sierwald, Petra. "Morphology and Ontogeny of Female Copulatory Organs in American Pisauridae, with Special Reference to Homologous Features (Arachnida: Araneae)." 4 December 1989.
485. Tyler, James C., G. David Johnson, Izumi Nakamura, and Bruce B. Collette. "Morphology of Luvarus imperialis (Luvaridae), with a Phylogenetic Analysis of the Acanthuroidei (Pisces)." 4 October 1989.
486. Cairns, Stephen D. "A Revision of the Ahermatypic Scleractinia of the Philippine Islands and Adjacent Waters, Part I: Fungiacyathidae, Micrabaciidae, Turbinoliinae, Guyniidae, and Flabellidae." 29 November 1989.
487. Cole, Linda L. "Catalog of Tunicate Type Specimens in the United States National Museum Collections." 20 November 1989.
488. Mooi, Rich. "Living and Fossil Genera of the Clypeasteroidea (Echinoidea: Echinodermata): An Illustrated Key and Annotated Checklist." 27 December 1989.
489. Bruce, Niel L., and Thomas E. Bowman. "Species of the Parasitic Isopod Genera Ceratothoa and Glossobius (Crustacea: Cymothoidae from the Mouths of Flying Fishes and Halfbeaks Beloniformes)." 27 December 1989.
491. Moynihan, Martin. "Social, Sexual, and Pseudosexual Behavior of the Blue-bellied Roller, Coracias cyanogaster: The Consequences of Crowding or Concentration." 21 February 1990.
492. Williams, Jeffrey T. "Phylogenetic Relationships and Revision of the Blennioid Fish Genus Scartichthys." 19 January 1990.
493. Roper, Clyde F.E., and C.C. Lu. "Comparative Morphology and Function of Dermal Structures in Oceanic Squids (Cephalopoda)." 7 March 1990.
495. Kornicker, Louis S., Jill Yager, and Dennis Williams. "Ostracoda (Halocyprididae) from Anchialine Caves in the Bahamas." 7 March 1990.
496. Coddington, Jonathan. "Ontogeny and Homology in the Male Palpus of Orb-weaving Spiders and Their Relatives, with Comments on Phylogeny (Araneocladia: Araneoidea, Deinopoidea)." 23 April 1990.
500. Higgins, Robert P. "Zelinkaderidae, a New Family of Cyclorhagid Kinorhyncha." 7 March 1990.

Studies in Air and Space

7. Douglas, Deborah G. "United States Women in Aviation, 1940-1985." 27 July 1990.

PUBLICATIONS FOR MUSEUMS, BUREAUS, AND RELATED ORGANIZATIONS

- American Historical Association, American Historical Association Annual Report, 1989.
- Arthur M. Sackler Gallery, Arthur M. Sackler Calendar of Events. Brochure, issued bimonthly.
- Hirshhorn Museum and Sculpture Garden, HMSG Calendar of Events. Published three times a year.
- James Smithson Society, A Year in Review. 1990.
- National Air and Space Museum, Collins, Martin J., general editor. A Directory of Sources for Air and Space History. May 1990.
- National Museum of African Art, Calendar of Programs and Exhibitions. Published three times a year.
- National Museum of American History, American Quarterly. Published four times a year.
- National Museum of Natural History, Atoll Research Bulletin 330-338. February 1990.
- National Museum of Natural History, Yochelson, Ellis. 75 Years in the Natural History Building. October 1990.
- National Portrait Gallery, NPG Calendar of Events. Published four times a year.
- Office of Elementary and Secondary Education, Lowderbaugh, Thomas, Research Guide for Teachers. June 1990.
- Office of Elementary and Secondary Education, Art to Zoo. Quarterly newsletter.
- Office of Environmental Management and Safety Brochures:
Safety for Museum Guards
Smithsonian's New Employee's Guide to Safety and Occupational Health
Guide to Laboratory Safety in the Museum Community
- Office of Fellowships and Grants, Research and Study Opportunities at the Smithsonian Institution.
- Office of Fellowships and Grants, Fellowships-in-Residence at the Smithsonian Institution. Poster.
- Office of Information and Resource Management, Smithsonian Institution Telephone Directory.
- Office of the Secretary, Bylaws of the Board of Regents. Brochure. 1990.
- Smithsonian Institution Archives, Cox, William E., and Victoria Cooper. Guide to the Papers of Alexander Wetmore, Circa 1848-1979, and Undated. (Guide to the Collection Series)

Appendix 5

Publications of the Staff of the Smithsonian Institution
and Its Subsidiaries in Fiscal Year 1990

OFFICE OF ENVIRONMENTAL AWARENESS

Conway and Company. Designed brochure, "A Better World Starts at Home: Smithsonian Tips to Help Yourself and the Planet."

OFFICE OF QUINCENTENARY PROGRAMS

_____. "The New World: A Smithsonian Quincentenary Publication Dedicated to the Americas." No. 1. (Spring 1990)

JOSEPH HENRY PAPERS

- Rothenberg, Marc. "Patronage of Harvard College Observatory, 1839-1851." Journal for the History of Astronomy XXI: 37-46 (February 1990).
- Theerman, Paul H. "National Images of Science: British and American Views of Scientific Heroes in the Early Nineteenth Century" in Beyond the Two Cultures: Essays on Science, Technology, and Literature (Ames: Iowa State University Press, 1990), pp. 259-274.

NATIONAL ZOOLOGICAL PARK

- Robinson, M.H. 1989. NZP International Programs in Wildlife Management and Conservation, and zoo biology. In: Proceedings of the IUDGZ 44th Annual Conference pg. 12-26.
- . 1990. The Role of Biological Research in the Development of Facilities. Journal of Animal Science 67:2442-451.
- . 1990. The Zoo That is Not: Education for Conservation. Conservation Biology 3(3)213-15.
- . 1990. The Conservation of Invertebrates: The Problem, the Need, the Possibilities. In: Proceedings 5th World Conference on Breeding Endangered Species in Captivity, eds. B.L. Dresser, R.W. Reece, E.J. Maruska. pp. 259-69. Cincinnati Zoo and Botanical Garden, Cincinnati, Ohio.
- . 1990. Networking the World of the Bioexhibit. In: American Association of Zoological Parks and Aquariums 1989 Annual Proceedings pp. 303-309.
- . 1990. The Zoo in Your Future. WETA Magazine 3(4)14-15.
- . 1990. Lessons of the Linyata. WETA Magazine 3(6)16-24.
- . 1990. No Modern Noahs. Review of The Deluge and the Ark: A Journey into Primate Worlds, Dale Peterson. In: Issues in Science and Technology VI(3)78-82.
- . 1990. Setting Straight our Plundered Planet. Review of Conservation for the twenty-first Century, D. Western and M. Pearl. In: Zoo Biology 9:247-50.

- . 1990. Do We Have Responsibilities to the Natural world: Should We Save the Rainforests? In: Environmental Ethics: Man's Relationship with Nature: Interactions with Science, eds. P. Bourdeau, P.M. Fasella, A. Teller. pp. 261-85. Luxembourg:Commission of the European Communities.
- . 1990. Predator-Prey Interactions, Informational Complexity, and the Origins of Intelligence. In: Insect Defenses, eds. D. Evans, J. Schmidt, pp. 129-49. SUNY Press, Albany, NY.

Animal Exhibit Departments

- Darlington, A.R. and R. Davis. 1990. Reproduction in the pancake tortoise, Malacochersus tornieri, in captive collections. Herpetology Review 21: 16-18.
- Male, J. 1990. Foster parenting, growth and management of the common trumpeter. International Zoo Yearbook 27.
- Marcellini, D.L. 1990. Differential infanticide by adult curly-tailed lizards, Leiocephalus schreibersi. Animal Behavior 8:1054-1061.
- Seidensticker, J. and S. Lumpkin. 1990. Playing possum is serious business for our only marsupial. Smithsonian 20:108-119.
- . 1990. Der sympathische Draufgänger. Das Tier 66-70.

Department of Animal Health

- Bush, M., R.J. Montali, L.G. Phillips and P.A. Holobaugh. 1990. Bovine tuberculosis in a bactrian camel herd: Clinical, therapeutic, and pathologic findings. Journal of Zoo Wildlife Medicine 21(2):171-179.
- Brown, J.L., D.E. Wildt, L.G. Phillips, J. Seidensticker, S.B.U. Fernando, S. Miththapala and K.L. Goodrowe. 1989. Ejaculate characteristics, and adrenal-pituitary-gonadal interrelationships in captive leopards (Panthera pardus kotiya) isolated on the island of Sri Lanka. Journal of Reproduction and Fertility 85:605-613.
- Doi, S., S. Shifrin, P. Santisteban, R.J. Montali, C. Schiller, M. Bush and E.F. Grollman. 1990. Familial goiter in bongo antelope (Tragelaphus eurycerus). Endocrinology 127(2):857-864.
- Goodrowe, K.L., A.M. Miller and D.E. Wildt. 1989. In vitro fertilization of gonadotropin-stimulated leopard cat (Felis bengalensis) follicular oocytes. Journal of Experimental Zoology 252:89-95.
- Heeney, J.L., J.F. Evermann, A.J. McKeirman, L. Marker-Kraus, M.E. Roelke, M. Bush, D.E. Wildt, D.G. Meltzer, L. Colly, J. Lucas, V.J. Manton and S.J. O'Brien. 1990. Prevalence and implications of coronavirus infections of captive and free-ranging cheetahs (Acinonyx jubatus). Journal of Virology. 64:1964-1972.
- Howard, J.G. and D.E. Wildt. 1990. Ejaculate and hormonal characteristics in the leopard cat (Felis bengalensis) and sperm function as measured by in vitro penetration of zona-free hamster ova and zona-intact domestic cat oocytes. Molecular Reproduction Developments 26:163-174.
- , J.L. Brown and E.E. Wildt. 1990. Teratospermic and normospermic domestic cats: Ejaculate traits, pituitary-gonadal hormones and improvement of sperm viability and morphology after swim-up processing. Journal of Andrology 11:204-215.
- Janssen, D.L. and R.M. Bush. 1990. Review of medical literature of great apes in the 1980s. Zoological Biology 9:123-134.

- Johnston, L.J., S.J. O'Brien and D.E. Wildt. 1989. In vitro maturation and fertilization of domestic cat follicular oocytes. Gamete Research 24:343-356.
- Leibo, S.P. and W.F. Rall. 1990. Diagnosis of prenatal sex of bovine pregnancies by amniocentesis. Theriogenology 33:531-552.
- Miller, A.M., M.E. Roelke, K.L. Goodrowe, J.G. Howard and D.E. Wildt. 1990. Oocyte recovery, maturation and fertilization in vitro in the puma (Felis concolor). Journal of Reproduction and Fertility 88:249-258.
- Monfort, S.L., K.D. Dahl, N.M. Czekala, L. Stevens, M. Bush and D.E. Wildt. 1989. Monitoring ovarian function and pregnancy in the giant panda (Ailuropoda melanoleuca) by evaluating urinary bioactive follicle-stimulating hormone and steroid metabolites. Journal of Reproduction and Fertility 85:203-212.
- , C. Wenmer, T.H. Kepler, M. Bush, J.L. Brown and D.E. Wildt. 1990. Monitoring ovarian function and pregnancy in Eld's deer (Cervus eldi thamin) by evaluating urinary steroid metabolite excretion. Journal of Reproduction and Fertility 88:271-281.
- , C.M. Wenmer, J.L. Brown and D.E. Wildt. 1990. Use of urinary hormone assays for evaluating endocrine patterns associated with the long-day breeding season in Eld's deer (Cervus eldi). Journal of Experimental Zoology 4:215-218.
- Pontbriand, D., J.G. Howard, M.C. Schiewe, L.D. Stuart and D.E. Wildt. 1989. Effects of cryoprotective diluent and method of freeze-thawing on survival and acrosomal integrity of ram spermatozoa. Cryobiology 26:341-354.
- Raphael, B.L., N.M. Loskutoff, L.A. Nemecek, B.A. Wolfe, J.G. Howard and D.C. Kraemer. 1990. Reproductive anatomy, manipulation of ovarian activity and nonsurgical embryo recovery in suni (Neotragus moschatus zuluensis). Journal of Reproductive Fertility 88:521-532.
- Schiewe, M.C., P.M. Schmidt, D.E. Wildt and W.F. Rall. 1990. Quality control measures in an embryo research program. Theriogenology 33:9-22.
- Schmidt, P.M., S.L. Monfort and D.E. Wildt. 1989. PMSG source influences fertilization and fresh or thawed embryo development but the effect is genotype-specific. Gamete Research 23:11-20.
- Steponkus, P.L., S.P. Meyers, D.V. Lynch, L. Gardner, V. Bronshteyn, S.P. Leibo, W.F. Rall, R.E. Pitt, T.T. Lin and R.J. MacIntyre. 1990. Cryopreservation of Drosophila melanogaster embryos. Nature 345:170-172.
- Wasser, S.K. 1990. Infertility, abortion and biotechnology: When it's not nice to fool Mother Nature. Human Nature 1:3-24.
- Wildt, D.E., M. Bush, C. Morton, F. Morton and J.G. Howard. 1989. Semen characteristics and testosterone profiles in ferrets kept in long-day photoperiod, and the influence of hCG timing and sperm dilution on pregnancy rate after laparoscopic insemination. Journal of Reproduction and Fertility 86:349-358.
- , 1990. Potential applications of IVF technology for species conservation. In: Fertilization in Mammals, B.D. Bavister, J. Cummins, E.R.S. Roldan, eds., Serono Symposium, U.S.A., Norwell, pps. 349-364.

Department of Conservation

- Berger, J. 1989. Female reproductive potential and its discrimination by male mammals. Journal of Mammalogy 70(2):347-350.
- , and M. Kock. 1989. Type I and II errors in the real world. Journal of Wildlife Diseases 25(3):451-454.

- . 1990. Persistence of different-sized populations: an empirical assessment of rapid extinctions in bighorn sheep. Conservation Biology 4(1):91-98.
- Biggins, D., L. Hansbury, B. Miller, R. Powell. 1990. Release of Siberian polecats (Mustela eversmanni) on a prairie dog colony. 70th Annual Meeting of the American Society of Mammalogists. Animal Behavior Society.
- Collins, L.R. 1990. Front Royal ferrets: the first year. ZooGoer 19(1):24-25.
- Cunningham, C. and J. Berger. 1990. Sex and survival in Badlands bison. ZooGoer 19:22-25.
- Dinerstein, E., S. Shrestha, and H. Mishra. 1990. Capture, chemical immobilization, and radio-collar life for greater one-horned rhinoceros. Wildlife Society Bulletin 18:36-41.
- Don Carlos, M.W., B.J. Miller, and E.T. Thorne. 1989. Observations of the 1986 black-footed ferret (Mustela nigripes) captive breeding program. In: Conservation Biology of the Black-footed Ferret (Seal, et al, Eds.), pp. 235-246.
- Giles, R.H., Jr., and M.S. Fujita. 1990. Computer applications for wildlife management in national parks and protected areas. In: Proceedings of the International Conference on Parks and Protected Areas, Kuala Lumpur, Malaysia, November 1989.
- McClenaghan, L.R., J. Berger, and H.D. Truesdale. 1990. Founding lineages and genetic variability in Plain's bison from South Dakota. Conservation Biology 4(3):285-289.
- McDonald, M.V. 1990. Gulf coast salt marsh. Journal of Field Ornithology 61 (Suppl.)(1):77.
- , and W.J. McShea. 1990. Tulip tree-hickory forest. Journal of Field Ornithology, 61 (Suppl.)(1):45-46.
- McShea, W.J. 1990. Social tolerance and proximate mechanisms of dispersal among winter groups of meadow voles (Microtus pennsylvanicus). Animal Behavior, 39:346-351.
- . 1990. Communication mechanisms in insectivores. In: Ecology of Insectivores, Oxford University Press.
- Miller, B. 1990. Comparison of black-footed ferrets (Mustela nigripes) and domestic ferrets (Mustela putorius furo) courtship activity. Zoo Biology 9:201-210.
- , and S.H. Anderson. 1990. Courtship patterns in induced estrus and natural estrus domestic ferrets (Mustela putorius furo). Journal of Ethology 7:65-73.
- , and S.H. Anderson. 1989. Evaluation of fertilization during abbreviated copulations in domestic ferrets (Mustela putorius furo). Journal of Experimental Zoology 249:35-79.
- , H.J. Harlow, and D. Walker. 1989. Morphological differences in the post-cranial skeleton of Spermophilus, Tridecemlineatus, S. elegans, and S. armatus. Southwestern Naturalist 34:302-304.
- , D. Biggins, C. Wemmer, R. Powell, and L. Calvo. 1989. Predator avoidance behavior of captive-raised ferrets. 64th Meeting of the NE Society of Animal Behavior. Animal Behavior Society.
- , C. Wemmer, D. Biggins. 1990. Ferret Futures. ZooGoer Jan./Feb., p. 20.
- Monfort, S.L., C. Wemmer, T.H. Kepler, M. Bush, J.L. Brown, and D.E. Wildt. 1990. Monitoring ovarian function and pregnancy in Eld's deer (Cervus eldi thamin) by evaluating urinary steroid metabolite excretion. Journal of Reproduction and Fertility 88:271-281.

- , N.P. Arthur, and D.E. Wildt. 1990. Reproduction in Przewalski's horses. In: The History and Biology of an Endangered Species (L. Boyd and K. Haupt, Eds.). New York, NY: State University of New York Press.
- Wasser, S.K. 1990. Infertility, abortion, and biotechnology: When it's not nice to fool mother nature. Human Nature 1(1):3-25.
- Wemmer, C. 1990. Keeping Score. ZooGoer March/April, p. 12.
- Winker, K., J.H. Rappole, and M.A. Ramos. 1990. Population dynamics of the Wood Thrush (Hylocichla mustelina) in southern Veracruz, Mexico. Condor 92:444-460.

Department of Zoological Research

- Askins, R., J. Lynch, and R. Greenberg. 1990. Population declines in migratory birds in eastern North America. Current Ornithology 7:1-58.
- Ballou, J.D. 1989. Inbreeding and outbreeding depression in the captive propagation of Black-Footed Ferrets (Mustela nigripes). Pp. 49-68 in U.S. Seal, E.T. Thorne, M.A. Bogan, and S.H. Anderson (eds.): Conservation Biology and the Black-footed Ferret. New Haven, CT. Yale University Press.
- , 1990. Emergence of the captive population of Golden-Headed Lion Tamarin (Leontopithecus chrysomelas). Pp. 391-396 in: Proceedings of the 1990 American Association of Zoological Parks and Aquariums Regional Conference.
- , 1990. International Golden Lion Tamarin Studbook. National Zoological Park, 76pp.
- , and B. Oakleaf. 1989. Demographic and genetic captive breeding recommendations for Black-Footed Ferrets. Pp. 247-267 in: U.S. Seal, E.T. Thorne and M.A. Bogan (eds.): Conservation Biology and the Black-footed Ferret. Yale University Press, New Haven, Connecticut.
- , T.J. Foose, R.C. Lacy, and U.S. Seal. 1989. Florida Panther population viability Analysis. Apple Valley, Minnesota: Captive Breeding Specialist Group.
- Barboza, P.S. 1989. Designing diets for herbivorous marsupials. Proceedings of the 8th Annual Dr. Scholl's Conference on the Nutrition of Captive Wild Animals.
- , 1990. Digestive strategies of marsupial hindgut fermenters. Pp. 30-33 in: Proceedings of Symposium on Digestive Strategies of Animals. National Zoological Park.
- , and B.A. Vanselow. 1990. Copper toxicity in captive wombats (Marsupialia, Vombatidae). Proceedings of the American Association of Zoo Veterinarians Annual Conference, South Padre Island, Texas, October, 1990.
- Beck, B.B. 1990. The Great Escape. ZooGoer 19:16.
- Beissinger, S.R. 1990. Alternative foods of a diet specialist, the Snail Kite. Auk 107:327-333.
- , 1990. On the limits and directions of conservation biology. BioScience 40:456-457.
- Boness, D. 1990. Fostering behavior in Hawaiian Monk Seals: is there a reproductive cost? Behavioral Ecology and Sociobiology 27:113-122.
- , 1990. Who's the mother? Fostering behavior in endangered Hawaiian Monk Seals. ZooGoer 19:10-13.
- Derrickson, K. 1990. Bigamy in Northern Mockingbirds: circumventing female-female aggression. Condor 91:728-732.
- , and R. Greenberg. 1990. Unfortunately time and scale do matter. Brain and Behavioral Science 13:77-78.

- , R. Greenberg, and T. Wolcott. 1990. Heart rate telemetry for small birds. In: New technological developments for field ornithology (A.H. Bledsoe, M.J. Braun, and A.D. Thompson Jr., eds.). American Ornithologists Union Workshop Proceedings.
- Dittus, W.P.J. and S.M. Ratnayeke. 1989. Individual and social behavioral responses to injury in wild Toque Macaques (Macaca sinica). International Journal of Primatology 10: 215-234.
- Fleagle, J.G. and A.L. Rosenberger (eds.). 1990. The platyrrhine fossil record. Journal of Human Evolution 19:
- Gradwohl, J. and R. Greenberg. 1989. Migratory non-game bird programs of the Fish and Wildlife Service. Audubon Wildlife Reports 89/90.
- Grand, T. H. 1990. Body composition and the evolution of the Macropodidae (Potorous, Dendrolagus and Macropus). Anatomy and Embryology, 182:85-92.
- Greenberg, R. 1990. A test of the neophobia hypothesis with captive sparrows. Animal Behaviour 39:375-379.
- . 1989. Neophobia, aversion to open space, and ecological plasticity in Song and Swamp Sparrows. Canadian Journal Zoology 67:1194-1199
- . 1990. Ecological plasticity, neophobia, and resource use in birds. Avian Biology, 13:431-437.
- , and S. Droege. 1990. Adaptations to tidal marshes in breeding populations of the Swamp Sparrow. Condor 92:393-404.
- Haig, S.M., J.D. Ballou, and S.R. Derrickson. 1990. Management options for preserving genetic diversity: reintroduction of Guam Rails to the wild. Conservation Biology 4:290-300.
- Kanezawa, E. and A.L. Rosenberger. 1989. Interspecific allometry of the mandible, dental arch, and molar area in anthropoid primates: functional morphology of masticatory components. Primates 30:543-560.
- Kleiman, D. G. 1989. Reintroduction of captive mammals for conservation, BioScience 39:152-161.
- . 1990. Traveling with tamarins. ZooGoer 19:11.
- . 1990. Review of Mark Stanley-Price "Animal Reintroductions: The Arabian Oryx in Oman". Trends in Ecology and Evolution 5:265-266.
- , and G. Peters. 1990. Auditory communication in the Giant Panda: Motivation and Function. Pp. 107-130 in: Proceedings of the 2nd International Symposium on Giant Pandas. (S. Asakura and S. Nakagawa, eds.). Tokyo Zoological Park Society, Tokyo.
- Kohn, F. 1990. Our brother's keepers. Zoolife 1:8-9.
- Mace, G.M. and J.D. Ballou. 1990. Population management for conservation. Trends in Ecology and Evolution 5:102-103.
- Montali, R. J. et al. (includes M. Roberts, K. J. Warnell, and O. T. Oftedal). 1989. Hepatopathy and hypercholesterolemia in Red Pandas associated with diet change. Pp. 31-29 in: Red Panda Biology, A. R. Glatston (ed.). SPB Academic Publishing, The Hague, The Netherlands.
- Morton, E. 1990. Habitat segregation by sex in the Hooded Warbler: experiments on proximate causation and discussion of its evolution. American Naturalist 135:319-333.
- . 1989. Female Hooded Warbler plumage does not become more male-like with age. Wilson Bulletin 101:460-462.
- , L. Forman, and M. Braun. 1990. Extrapair fertilizations and the evolution of colonial breeding in Purple Martins. Auk 107:275-283.
- , and R. Greenberg. 1989. The outlook for migratory songbirds: future shock for birds. American Birds 43:178-183.
- Oftedal, O.T., W.D. Bowen, E.M. Widdowson, and D.J. Boness. 1989. Effects of suckling and the post-suckling fast on weights of the body and internal organs of Harp and Hooded Seal pups. Biology of the Neonate 56:283-300.

- Ralls, K. 1989. Kit Fox-Coyote relationships in the Carrizo Plain Reserve. Annual report to the U.S. Fish and Wildlife Service, 26 pp.
- , 1990. Saving ferrets and more -- a review of Conservation biology and the Black-Footed Ferret, (U.S. Seal, E.T. Thorne, M.A. Bogan, and S.H. Anderson (eds.)). The Prairie Naturalist 22:141-142.
- , 1990. Review of Conservation for the Twenty-First Century edited by David Western and Mary Pearl. Science 247:224.
- , and D. Siniff. 1990. Time budgets and activity patterns in California Sea Otters. Journal of Wildlife Management 54:251-259.
- , D.B. Siniff, T.D. Williams, and V. B. Keuchle. 1989. An intraperitoneal radio transmitter for Sea Otters. Marine Mammal Science 5:376-382.
- , D.B. Siniff, A. Doroff, and A. Mercure. 1990. Final report on Contract 14-12-001-30451, Biological impacts of translocated Sea Otters. Minerals Management Service, 57 pp.
- Ratnayeke, A.P. and W.P.J. Dittus. 1989. Observation of a birth among wild Toque Macaques (Macaca sinica). International Journal of Primatology 10: 235-242.
- Robbins, C.S., J. Sauer, R. Greenberg and S. Droege. 1989. Recent declines in North American birds that winter in the Neotropics. Proceedings of the National Academy of Sciences 86:7658-7662.
- Roberts, M. 1989. A survey and analysis of management practices in the North American Red Panda SSP. Pp.129-152 in: Red panda biology, A. R. Glatston (ed.). SPB Academic Publishing, The Hague, The Netherlands.
- , 1989. Management applications of individual and population weight dynamics in small mammals. American Association of Zoological Parks and Aquariums Annual Conference Proceedings 1989:515-525.
- , 1990. Kangaroos, people, and the environment. ZooGoer 19:4-9.
- , 1990. Suckers in the rainforest. ZooGoer 18:26.
- , 1990. Red Panda SSP management masterplan. American Association of Zoological Parks and Aquariums, 98pp.
- , and M. Hutchins (eds.). 1990. The biology and management of tree kangaroos. Bulletin Number 1 of the American Association of Zoological Parks and Aquariums Monotreme and Marsupial Advisory Group, 42pp.
- , and F. Kohn. 1990. A technique for measuring early life history characteristics in small marsupials. Zoo Biology 9:45-52.
- , L. Phillips, and F. Kohn. 1990. Common Ringtail Possum (Pseudocheirus peregrinus) as a management model for the Pseudocheiridae: reproductive scope, behavior, and biomedical values on a browse free diet. Zoo Biology 9:25-41.
- Rosenberger, A.L. and J.G. Fleagle (eds.). 1989. New world monkeys. Journal of Human Evolution 18:1-75.
- , and K.B. Strier. 1989. Adaptive radiation of the ateline primates. Journal of Human Evolution 18:717-750.
- , T. Setoguchi, and N. Shigehara. 1990. The fossil record of callitrichine primates. Journal of Human Evolution 19:209-236.
- Rudran, R., C.W. Wemmer and M. Singh. 1990. Teaching applied ecology to nationals of developing countries. Pp. 125-140 In: Race to save the tropics. R. Goodland (ed.).
- Ruiz, J.C. 1990. Comparison of affiliative behaviors between old recently established pairs of Golden Lion Tamarin, Leontopithecus rosalia. Primates 31:197-204.
- Takekawa, J.E. and S.R. Beissinger. 1989. Cyclic drought, dispersal, and the conservation of the Snail Kite in Florida: lessons in critical habitat. Conservation Biology 3: 302-311.

- Thompson, S. 1989. Energy balance in endothermic vertebrates. Proceedings of the 8th Annual Dr. Scholl's Conference on the Nutrition of Captive Wild Animals.
- Warnell, K. J., S. D. Crissey, and O. T. Oftedal. 1989. Utilization of bamboo and other fiber sources in Red Panda diets. Pp. 151-56 In: Red Panda Biology, A. R. Glatston (ed.). SPB Academic Publishing, The Hague.

OFFICE OF AMERICAN STUDIES

- Washburn, Wilcomb E. "The Form of Islands in Fifteenth, Sixteenth and Seventeenth-Century Cartography," in Geographie du Monde au Moyen Age et a la Renaissance, edited by Monique Pelletier (Paris: Editions du Comite des Travaux Historiques et Scientifiques, Ministere de l'Education Nationale de la Jeunesse et des Sports, 1989), pp. 201-206.
-
- "Rendons hommage a Jean Malaurie," in Pour Jean Malaurie: 102 Temoignages en Hommage a Quarante Ans d'Etudes Arctiques, ed., Sylvie Devers, (Paris: Plon, 1990), pp. 849-851.
-
- "Museums and Repatriation of Objects in Their Collections," in The Hall of the North American Indian: Change and Continuity, ed. by Barbara Isaac: Ethnographic Annotation by Ian W. Brown (Cambridge, Mass.: Peabody Museum Press, 1990), pp. 15-18.
-
- Portugal, Brazil: The Age of Atlantic Discoveries. Essays by Luis de Albuquerque, Charles R. Boxer, Francisco Leite de Faria, Max Justo Guedes, Francis M. Rogers, and Wilcomb E. Washburn. Lisbon, Milan and New York: Bertrand Editora, Franco Maria Ricci, and Brazilian Cultural Foundation, 1990. 270 pp. Catalogue of the exhibition of same name at New York Public Library, June 1-September 1, 1990.
-
- "Museum Exhibition," chapter 8 in The Museum: A Reference Guide, edited by Michael Steven Shapiro with the assistance of Louis Ward Kemp (New York: Greenwood Press, 1990), pp. 199-229.
-
- "Proposed Civil Rights Act of 1990: Potential for Ethnic Challenges to Statistical Imbalance," Measure, No. 87 (August 1990), pp. 1-3.

- Adams, F. C.; Emerson, J. P.; and Fuller, G. A. "Submillimeter Photometry and Disk Masses of T Tauri Disk Systems." Astrophysical Journal 357 (1990): 606.
- Adams, F. C.; Freese, K.; and Widrow, L. M. "Evolution of Nonspherical Bubbles." Physical Review D 41 (1990): 347.
- Adams, F. C.; Ruden, S. P.; and Shu, F. H. "Eccentric Gravitational Instabilities in Nearly Keplerian Disks." Astrophysical Journal 347 (1989): 959.
- Adams, F. C., and Walker, T. P. "Brown Dwarfs as Dark Galactic Halos." Astrophysical Journal 359 (1990): 57.
- Adams, J. H.; Ahlen, S. P., Jr.; Barbier, L. M.; Beatty, J. J.; Carlson, P.; Crawford, H. J.; Golden, R. L.; Krombel, K. E.; Lamb, R. C.; Lloyd-Evans, J.; Marin, A. A.; Ormes, J. F.; Ozel, M. E.; Smooth, G. F.; Strittmatter, R. E.; Tylka, A. J.; Weekes, T. C.; and Zhou, B. "ASTROGAM: A Magnetic Rigidity Spectrometer for Gamma-Ray Astronomy." In High Energy Astrophysics in the 21st Century, American Institute of Physics Conference Proceedings, vol. 211, ed. P. C. Joss, p. 240. New York: American Institute of Physics, 1990.
- Akerlof, C. W.; Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Lamb, R. C.; Lewis, D. A.; Meyer, D. I.; and Weekes, T. C. "GRANITE, A New Very High Energy Gamma-Ray Telescope." Nuclear Physics B 14 (1990): 237.
- Akerlof, C. W.; Meyer, D. I.; Lamb, R. C.; Lewis, D. A.; and Weekes, T. C. "GRANITE, A New Very High Energy Gamma-Ray Telescope." In EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy and Atomic Physics, Proceedings of SPIE, vol. 1159, eds. C. J. Harley and O. H. W. Siegmund, p. 270. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Aksnes, K., and Franklin, F. A. "Predictions of Mutual Phenomena of the Galilean Satellites in 1990-1992." Icarus 84 (1990): 542.
- Alpert, Ya. L. Space Plasma. Vol. I, Theory and Main Properties. Cambridge: Cambridge University Press, 1990.
- . Space Plasma. Vol. II, Flow, Waves, and Oscillations. Cambridge: Cambridge University Press, 1990.
- Andersen, J. "'Undisturbed' Evolution in Binaries." In Highlights of Astronomy, vol. 8, ed. D. McNally, p. 145. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "Report on Meetings and Report of the Working Group on Standard Stars, IAU Commission 30." IAU Transactions, vol. XXB, ed. D. McNally, p. 267. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Andersen, J.; Clausen, J. V.; and Nordström, B. "Absolute Dimensions of Eclipsing Binaries. XVI. V1031 Orionis." Astronomy and Astrophysics 228 (1990): 365.
- Andersen, J., and Nordström, B. "Fundamental Parameters of the W Serpentis Stars." Space Science Reviews 50 (1989): 179.
- Arnett, W. D.; Bahcall, J. N.; Kirshner, R. P.; and Woosley, S. E. "Supernova 1987A." Annual Review of Astronomy and Astrophysics 27 (1989): 629.
- Avrett, E. H. "Models of the Solar Photosphere." In Solar Photosphere: Structure, Convection, and Magnetic Fields, Proceedings of IAU Symposium No. 138, ed.

- J. O. Stenflo, p. 3. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Babb, J. F., and Du, M. L. "Quantum-Mechanical Calculation of Quasi-Bound Energies and Resonance Widths for the Helium Molecular Dication He_2^{2+} ." Chemical Physics Letters 167 (1990): 273.
- Bachiller, R.; Menten, K. M.; and del Rio-Alvarez, S. "Anatomy of a Dark Cloud: A Multimolecular Study of Barnard 1." Astronomy and Astrophysics 236 (1990): 461.
- Bailyn, C. D., and Garcia, M. R. "When Seven's a Crowd." Nature 343 (1990): 120.
- Bailyn, C. D.; Grindlay, J. E.; and Garcia, M. R. "Does Tidal Capture Produce Cataclysmic Variables?" Astrophysical Journal (Letters) 357 (1990): L35.
- Bloemhof, E. E.; Danchi, W. C.; and Townes, C. H. "Spatially Resolved Dust Around IRC+10420." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 463. San Francisco: Astronomical Society of the Pacific, 1990.
- Bloemhof, E. E., and Dhawan, V. "Receiver Work at the CfA." In Submillimetre Astronomy, Proceedings of the Kona Symposium on Millimetre and Submillimetre Astronomy, eds. G. D. Watt and A. S. Webster, p. 55. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Bothun, G.; Caldwell, N.; and Schombert, J. "The Use of Dwarf Elliptical Galaxies as Distance Indicators: The Relative Distances Between Virgo, Fornax, and Centaurus." Astronomical Journal 98 (1989): 1542.
- Bowell, E.; Chernykh, N. S.; and Marsden, B. G. "Discovery and Follow-up of Asteroids." In Asteroids II, eds. R. P. Binzel, T. Gehrels, and M. S. Matthews, p. 21. Tucson, Arizona: University of Arizona Press, 1989.
- Brissenden, R. J. V.; Remillard, R. A.; Tuohy, I. R.; Feigelson, E. D.; and Schwartz, D. A. "H1720+117: A Highly Polarized X-Ray Selected BL Lacertae Object." Astrophysical Journal 350 (1990): 578.
- Bruning, D. H., and Saar, S. H. "Rotational Enhancement of Line Asymmetries in F9-G2 Dwarfs." In The Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 165. San Francisco: Astronomical Society of the Pacific, 1990.
- Brunner, H.; Worrall, D. M.; Wilkes, B. J.; and Elvis, M. "The Dependence of the Soft X-Ray Spectral Slope with Radio Property, Luminosity and Redshift, for a Large Sample of AGNs from the Einstein IPC Data Base." In Two Topics in X-Ray Astronomy: AGN and the X-Ray Background, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrock, p. 905. Noordwijk, The Netherlands: ESTEC, 1989.
- Carilli, C. L.; van Gorkom, J. H.; Haxthausen, E. M.; Stocke, J. T.; and Salzer, J. "Radio Observations of Quasar-Galaxy Pairs: A Study of Extended Gas in Disturbed Systems." In The Interstellar Disk-Halo Connection in Galaxies, Proceedings of IAU Symposium No. 144, ed. H. Bloemen, p. 37. Leiden, The Netherlands: Leiden Observatory, 1990.
- Carney, B. W.; Aguilar, L.; Latham, D. W.; and Laird, J. B. "A Survey of Proper-Motion Stars. IX. The Galactic Halo's Metallicity Gradient." Astronomical Journal 99 (1990): 201.

- Carney, B. W.; Latham, D. W.; and Laird, J. B. "A Survey of Proper-Motion Stars. X. The Early Evolution of the Galaxy's Halo." Astronomical Journal 99 (1990): 572.
- Carroll, S.; Field, G. B.; and Jackiw, R. "Limits on a Lorentz- and Parity-Violating Modification of Electrodynamics." Physical Review D 41 (1990): 1231.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K. G.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D.; Porter, N. A.; Reynolds, P. T.; Vacanti, G.; and Weekes, T. C. "Detection of TeV Gamma Rays from the Crab Nebula Using the Atmospheric Cherenkov Imaging Technique." In Proceedings of the International Workshop on Very High Energy Gamma-Ray Astronomy (Crimea, USSR, April 17-21, 1989), eds. A. A. Stepanian, D. J. Fegan, and M. F. Cawley, p. 156. Crimea: Crimean Astrophysical Observatory, 1989.
- . "Search for TeV Gamma Rays from the X-Ray Pulsar 1E2259 + 586/G109.1-1.0." In Proceedings of the International Workshop on Very High Energy Gamma-Ray Astronomy (Crimea, USSR, April 17-21, 1989), eds. A. A. Stepanian, D. J. Fegan, and M. F. Cawley, p. 165. Crimea: Crimean Astrophysical Observatory, 1989.
- Cawley, M. F.; Fegan, D. J.; Harris, K.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D.; Reynolds, P. T.; Schmid, D. J.; Vacanti, G.; and Weekes, T. C. "A High Resolution Imaging Detector for TeV Gamma-Ray Astronomy." Experimental Astronomy 1(3) (1989): 173.
- . "The Whipple Observatory High Resolution Camera." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 4, p. 224. Adelaide: University of Adelaide, 1990.
- Chaffee, F.; Blanco, D.; Foltz, C.; Janes, C.; Lester, H.; Poyner, A.; Williams, J. T.; Criswell, S.; Fabricant, D.; and Schmidt, G. "The MMT Conversion - A Status Report." In Advanced Technology Optical Telescopes, Proceedings of SPIE, vol. 1236, eds. C. J. Hailey and O. H. W. Siegmund, p. 507. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Chandler, J. F., and Reasenber, R. D. "POINTS: A Global Reference Frame Opportunity." In Inertial Coordinate System on the Sky, eds. J. H. Lieske and V. I. Abalakin, p. 217. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Cheung, A. S.-C.; Yoshino, K.; Esmond, J. R.; Chiu, S. S.-L.; Freeman, D. E.; and Parkinson, W. H. "Predissociation Line Widths of the (1,0)-(12,0) Schumann-Runge Absorption Bands of O₂ in the Wavelength Region 179-202 nm." Journal of Chemical Physics 92 (1990): 842.
- Churchwell, E.; Walmsley, C. M.; Wood, D. O. S.; and Steppe, H. "Radio Recombination Line Emission from Ultracompact HII Regions." In Radio Recombination Lines: 25 Years of Investigation, Proceedings of IAU Colloquium No. 125, eds. M. A. Gordon and R. L. Sorochenko, p. 83. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Churchwell, E.; Wolfire, M. G.; and Wood, D. O. S. "Infrared Emission from Dust Surrounding Newly Formed Stars." Astrophysical Journal 354 (1990): 247.
- Crusius-Wätzel, A. R.; Biermann, P. L.; Lerche, I.; and Schlickeiser, R. "Depolarizing Hot Gas in Clusters of Galaxies with a Strong Double Radio Source."

- Astrophysical Journal 360 (1990): 417.
- da Costa, L. N.; Pellegrini, P. S.; Willmer, C.; and Latham, D. W. "First Results from a Deeper Survey of a Southern Redshift Slice." Astrophysical Journal 344 (1989): 20.
- Dalgarno, A. "Chemistry of Molecular Clouds." In Structure and Dynamics of the Interstellar Medium, eds. G. Tenorio-Tagle, M. Moles, and J. Melnick, p. 3. Berlin: Springer-Verlag Publishing Company, 1989.
- . "Molecular Process." In Space: Introduction, Molecular Processes in Space, eds. T. Watanabe, I. Shimamura, M. Shimizu, and Y. Itikawa, p. 1. London: Plenum Press, 1990.
- Dalgarno, A.; Du, M. L.; and You, J. H. "The Radiative Association of C and O and C⁺ and O." Astrophysical Journal 349 (1990): 675.
- David, L.; Arnaud, K.; Forman, W.; and Jones, C. "Einstein Observations of Hydra A and the Efficiency of Galaxy Formation in Groups & Clusters." Astrophysical Journal 356 (1990): 32.
- David, L. P.; Forman, W.; and Jones, C. "The Evolution of the Interstellar Medium in Elliptical Galaxies I. The Early Wind Phase." Astrophysical Journal 359 (1990): 29.
- Dey, A.; Strauss, M.; and Huchra, J. "A Deep Redshift Survey of IRAS Galaxies Towards the Bootes Void." Astronomical Journal 99 (1990): 463.
- Dhawan, V.; Bartel, N.; Rogers, A. E. E.; Rönnäng, B. O.; Hirabayashi, H.; Inoue, M.; Lawrence, C. R.; Shapiro, I. I.; Burke, B. F.; Booth, R. S.; Readhead, A. C. S.; Morimoto, M.; Johnston, K. J.; Spencer, J. H.; and Marcaide, J. M. "Further 7-mm VLBI Observations of 3C84 and Other Sources with 100 μ s Angular Resolution." Astrophysical Journal (Letters) 360 (1990): L43.
- Digel, S.; Bally, J.; and Thaddeus, P. "Giant Molecular Clouds and HII Regions in the Outer Arm of the Galaxy." Astrophysical Journal (Letters) 357 (1990): L29.
- Du, M. L., and Dalgarno, A. "The Radiative Association of N and O Atoms." Journal of Geophysical Research 95 (1990): 12265.
- Dupree, A. K.; Hartmann, L.; and Smith G. H. "Chromospheres of Metal-Deficient Field Giants." Astrophysical Journal 353 (1990): 623.
- . "Evolution of Chromospheres in Red Giants." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 408. San Francisco: Astronomical Society of the Pacific, 1990.
- Du, M. L., and Dalgarno, A. "The Radiative Association of N and O Atoms." Journal of Geophysical Research 95 (1990): 12265.
- Elvis, M. (editor) Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements. Cambridge: Cambridge University Press, 1990.
- Elvis, M.; Fassnacht, C.; Wilson, A. S.; and Briel, U. "Extended X-Ray Emission in Nearby Seyfert Galaxies." In Extranuclear Activity in Galaxies, eds. E. J. A. Meurs and R. A. E. Fosbury, p. 243. Garching: European Southern Observatory, 1989.
- Elvis, M.; Plummer, D.; and Fabbiano, G. "The Einstein All-Sky PIC Slew Survey." In Two Topics in X-Ray Astronomy: X-Ray Binaries, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrick, p. 847.

- Noordwijk, The Netherlands: ESTEC, 1990.
- Escalante, V., and Victor, G. A. "Effective Recombination Coefficients of Neutral Carbon and Singly Ionized Nitrogen." Astrophysical Journal Supplement Series 73 (1990): 513.
- Fabbiano, G. "Einstein Observatory Data Bases." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 307. Cambridge: Cambridge University Press, 1990.
- Fabbiano, G.; Gallagher, J.; and Renzini, A. (editors) Proceedings of the Workshop "Windows on Galaxies." Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Fabbiano, G.; Gioia, I. M.; and Trinchieri, G. "Radio Emission and Hot Interstellar Medium of Early-Type Galaxies." Astrophysical Journal 347 (1989): 127.
- Fabbiano, G.; Heckman, T.; and Keel, W. "Nuclear Outflow in NGC3628." Astrophysical Journal 355 (1990): 442.
- Fabbiano, G.; Trinchieri, G.; Hazleton, S.; and Kim, D.-W. "The Einstein Normal Galaxy Data Base." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 323. Cambridge: Cambridge University Press, 1990.
- Fabricant, D., and Hertz, E. "The Decaspec: A Fiber Optics Adapter for Multiobject Spectroscopy." In Instrumentation in Astronomy, Proceedings of SPIE, vol. 1235, ed. D. Crawford, p. 747. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Falco, E. E., and Kurtz, M. J. "Simulation of Large-Scale Astronomical CCD Surveys." In Data Analysis in Astronomy III, eds. V. Di Gesu et al., p. 149. New York: Plenum Press, 1989.
- Farmer, C. B.; Carli, B.; Bonetti, A.; Carlotti, M.; Dinelli, B. M.; Fast, H.; Evans, W. F. J.; Louisnard, N.; Alamichel, C.; Mankin, W.; Coffey, M.; Nolt, I. G.; Murcray, D. G.; Goldman, A.; Stokes, G. M.; Johnson, D. W.; Traub, W. A.; Chance, K. V.; Zander, R.; and Delbouille, L. "Balloon Intercomparison Campaigns: Results of Remote Sensing Measurements of HCl." Journal of Atmospheric Chemistry 10 (1990): 237.
- Fegan, D.; Cawley, M.; Gibbs, K.; Lamb, R. C.; Lewis, D. A.; Porter, N.; Reynolds, P. T.; Smyth, G.; and Weekes, T. "Search for a 12.59 ms Pulsar in Cygnus X-3." Astronomy and Astrophysics 211 (1989): L1.
- Field, G. B. "Current Sheets in Line-Tied Magnetic Fields." In Topological Fluid Mechanics: Proceedings of the IUATAM Symposium (Cambridge, England, August 13-18, 1989), eds. H. K. Moffat and A. Tsinober, p. 244. Cambridge: Cambridge University Press, 1990.
- Fireman, E. L. "The Uranium-Series Age of Yamato K-26 Ice." In Proceedings of the 14th Symposium on Antarctic Meteorites, p. 3. Tokyo: National Institute of Polar Research, 1989.
- . "Uranium-Series Dating of Tephra-Banded Allan Hills Ice." In Proceedings of NIPR Symposium on Antarctic Meteorites, vol. 2, p. 335. Tokyo: National Institute of Polar Research, 1989.
- . "The Lewis Cliff Meteorite Stranding Area, Polar Ice Cores, and Wisconsin Period Impacts." In Lunar and Planetary Science XXI, p. 365. Houston: Lunar

- and Planetary Science Institute, 1990.
- . “Constraints on SN1987A Neutrino Types from the Homestake Mine Detectors.” Astrophysical Journal 349 (1990): 241.
- Fontenla, J. M.; Avrett, E. H.; and Loeser, R. Energy Balance in the Solar Transition Region. I. Hydrostatic Thermal Models in Ambipolar Diffusion.” Astrophysical Journal 355 (1990): 700.
- Forman, W., and Jones, C. “Hot Gas in Clusters of Galaxies.” In Clusters of Galaxies, eds. W. Oegerle, M. Fitchett, and L. Danly, p. 257. Cambridge: Cambridge University Press, 1990.
- Fox, J. L., and Dalgarno, A. “Transition Probabilities and Franck-Condon Factors for the Second Negative Band System of O_2^+ .” Journal of Geophysical Research 95 (1990): 1119.
- Freeman, D. E.; Cheung, A. S.-C.; Yoshino, K.; and Parkinson, W. H. “Comment on Predissociation of O_2 in the B state.” Journal of Chemical Physics 91 (1989): 6538.
- Freese, K., and Adams, F. C. “Hadron Bubble Evolution into the Quark Sea.” Physical Review D 41 (1990): 2449.
- Friedman, R. S.; Du, M. L.; and Dalgarno, A. “Predissociation Channels of $C^3\Pi_g$ of O_2 .” Journal of Chemical Physics 93 (1990): 2375.
- Gallagher, J., and Fabbiano, G. “Panchromatic Observations of Galaxies.” In Proceedings of the Workshop “Windows on Galaxies,” eds. G. Fabbiano, J. Gallagher, and A. Renzini, p. 1. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Garcia, M. R. “The Possible X-Ray Triple 4U2129+47=V1727 Cyg.” In Two Topics in X-Ray Astronomy: AGN and the X-Ray Background, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrick, p. 151. Noordwijk, The Netherlands: ESTEC, 1989.
- Geary, J. C.; Robinson, L. B.; Sims, G. R.; and Bredthauer, R. A. “Development of a 2K X2K Imager for Scientific Applications.” In Solid-State Imagers, Proceedings of SPIE, vol. 1242, ed. M. Blouke, p. 38. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Geary, J. C.; Torres, G.; Latham, D. W.; and Wyatt, W. F. “Test of Two Large-Format CCD’s for Echelle Spectroscopy.” In CCDs in Astronomy, Astronomical Society of the Pacific Conference Series, vol. 8, ed. G. Jacoby, p. 40. San Francisco: Astronomical Society of the Pacific, 1989.
- Geller, M. “Tracing Large-Scale Structure in the Universe.” In Dark Matter in the Universe, eds. H. Sato and K. Kodama, p. 1. Berlin: Springer-Verlag Publishing Company, 1989.
- . “Clusters of Galaxies: Structure, Infall and Large-Scale Distribution.” In Clusters of Galaxies, eds. W. Oegerle, M. Fichett, and L. Danly, p. 25. Cambridge: Cambridge University Press, 1990.
- Geller, M., and Huchra, J. “Mapping the Universe.” Science 246 (1989): 897.
- Ghosh, S. K.; Iyengar, K. V. K.; Rengarajan, T. N.; Tandon, S. N.; Verma, R. P.; Daniel, R. R.; and Ho, P. T. P. “Far-Infrared and Radio Observations of the W31 Star-Forming Region.” Astrophysical Journal 347 (1989): 338.
- Gillanders, G. H.; Byrne, M. P.; Fegan, D. J.; MacKeown, P. K.; and Weekes, T. C.

- “Search for Point Sources of Cosmic Gamma Rays at Energies >4.1013 eV Using a High Altitude Air Shower Array.” In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 23. Adelaide: University of Adelaide, 1990.
- Gingerich, O. Album of Science: The Physical Sciences in the Twentieth Century. New York: Scribner's, 1989.
- . “Early Astronomical Books with Moving Parts.” AB Bookman's Weekly 84 (1989): 1505.
- . “Five Centuries of Astronomical Textbooks.” In The Teaching of Astronomy, Proceedings of IAU Colloquium No. 105, eds. J. Pasachoff and J. Percy, p. 189. Cambridge: Cambridge University Press, 1989.
- . “Kepler's Contribution to Astronomy.” In General History of Astronomy, vol. 2A, eds. C. Wilson and R. Taton, p. 54. Cambridge: Cambridge University Press, 1989.
- . “The Use of History in the Teaching of Astronomy.” In The Teaching of Astronomy, Proceedings of International Astronomical Union Colloquium No. 105, eds. J. Pasachoff and J. Percy, p. 40. Cambridge: Cambridge University Press, 1989.
- . “Alfonso the Tenth as a Patron of Astronomy.” In Alfonso X of Castile, the Learned King (1221-1284), eds. F. Márquez-Villanueva and C. A. Vega, p. 30. Cambridge, Massachusetts: Harvard Studies in Romance Languages 43, 1990.
- . “Show Trial? Redondi's Galileo Heretic.” American Scholar 59 (1990): 310.
- . “Through Rugged Ways to the Galaxies.” Journal for the History of Astronomy 21 (1990): 77.
- Gingerich, O., and Hoskin, M. (editors). “Two Astronomical Anniversaries: The Harvard College Observatory Sequicentennial and the Smithsonian Astrophysical Observatory Centennial.” Journal for the History of Astronomy 21(1): 1990.
- Gingerich, O., and Westman, R. “The Wittich Connection: Priority and Conflict in Late Sixteenth-Century Cosmology.” Transactions of the American Philosophical Society 78 (1988): no. 7.
- Gioia, M. “Sky Survey from Einstein.” In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 191. Cambridge: Cambridge University Press, 1990.
- Gioia, I. M.; Garilli, B.; Maccacaro, T.; Maccagni, D.; Vettolani, G.; and Wolter, A. “An Unusual Red Envelope Galaxy in an X-Ray Selected Cluster.” In Proceedings of the “World Galaxies,” eds. H. G. Corwin, Jr., and L. Botinelli, p. 492. Heidelberg: Springer-Verlag Publishing Company, 1989.
- Gioia, I. M.; Henry, J. P.; Maccacaro, T.; Morris, S. L.; Stocke, J. T.; and Wolter, A. “The EMSS Distant Cluster Sample: X-Ray Cosmological Evolution.” Astrophysical Journal (Letters) 356 (1990): L35.
- Gioia, I. M.; Maccacaro, T.; Morris, S. L.; Schild, R. E.; Stocke, J. T.; and Wolter, A. “The Einstein Observatory Extended Medium Sensitivity Survey: An X-Ray Survey at Low Fluxes.” In Large-Scale Surveys of the Sky, Proceedings of the NRAO Workshop, eds. J. J. Condon and F. J. Lockman, p. 37. Green Bank, West Virginia: 1990.
- Gioia, I. M.; Maccacaro, T.; Morris, S. L.; Schild, R. E.; Stocke, J. T.; Wolter, A.;

- and Henry, J. P. "The Extended Medium Sensitivity Survey I: X-Ray Data and Analysis." Astrophysical Journal Supplement 72 (1990): 567.
- Gioia, I. M.; Maccacaro, T.; Schild, R. E.; Wolter, A.; Morris, S. L.; and Stocke, J. T. "The Extended Medium Sensitivity Survey: The Database." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 333. Cambridge: Cambridge University Press, 1990.
- Giommi, P.; Tagliaferri, G.; Beuermann, K.; Branduardi-Raymont, G.; Brissenden, R.; Graser, U.; Mason, K. O.; Murdin, P.; Pooley, G.; Thomas, H. C.; and Tuohy, I. "BL Lacertae Objects from the EXOSAT High Galactic Latitude Survey: Constraints on the Log N-Log S and on the Cosmological Evolution." In BL LAC Objects, Lecture Notes in Physics, vol. 334, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 231. Heidelberg: Springer-Verlag Publishing Company, 1989.
- Golub, L.; Herant, M.; Kalata, K.; Lovas, I.; Nystrom, G.; Pardo, F.; Spiller, E.; and Wilczynski, J. "Superarcsecond Observations of the Solar X-Ray Corona." Nature 344(6269) (1990): 842.
- Gómez, Y.; Moran, J. M.; and Rodríguez, L. F. "H₂O and SiO Maser Emission in OH/IR Stars." Revista Mexicana de Astronomía y Astrofísica 20 (1990): 55.
- Gómez, Y.; Moran, J. M.; Rodríguez, L. F.; and Garay, G. "The Distance to NGC6302." Astrophysical Journal 345 (1989): 862.
- Goodman, A. A.; Bastien, P.; Myers, P. C.; and Menard, F. "Optical Polarization Maps of Star-Forming Regions in Perseus, Taurus, and Ophiuchus." Astrophysical Journal 359 (1990): 363.
- Goodman, A. A.; Myers, P. C.; Bastien, P.; Crutcher, R. M.; Heiles, C.; Kazes, I.; and Troland, T. H. "The Magnetic Field in the Perseus Molecular Cloud Complex." In Galactic and Intergalactic Magnetic Fields, Proceedings of IAU Symposium No. 140, eds. R. Beck, P. P. Kronberg, and R. Wielebinski, p. 319. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Gorenstein, P. "High Throughput X-Ray Astronomy." In High-Energy Astrophysics in the 21st Century, American Institute of Physics Conference Proceedings, vol. 211, ed. P. C. Joss, p. 297. New York: American Institute of Physics, 1990.
- . "High Throughput X-Ray Telescope on a Lunar Base." In Astrophysics from the Moon, American Institute of Physics Conference Proceedings, vol. 207, eds. M. J. Mumma and H. J. Smith, p. 382. New York: American Institute of Physics, 1990.
- Gredel, R.; Lepp, S.; Dalgarno, A.; and Herbst, E. "Cosmic Ray Induced Photodissociation and Photoionization Rates of Interstellar Molecules." Astrophysical Journal 347 (1989): 289.
- Green, D. W. E. (editor) International Comet Quarterly 11 (1989).
- . (editor) International Comet Quarterly 12 (1990).
- Greenler, G.; Hable, J. W.; and Slane, P. O. "Diffraction Around a Fine Wire: How Good is the Single-Slit Approximation?" American Journal of Physics 58 (1990): 330.
- Guth, A. H. "Inflation and False Vacuum Bubbles." In Proceedings of the Storrs Meeting (1988 Meeting of the Division of Particles and Fields of the American Physical Society, Storrs, Connecticut, August 15-18), eds. K. Haller, D. B. Caldi, M. M.

- Islam, R. L. Mallett, P. D. Mannheim, and M. S. Swanson, p. 139. Singapore: World Scientific Publishing, 1989.
- Habbal, S. R.; Dowdy, J. F.; and Withbroe, G. L. "A Comparison between Bright Points in a Coronal Hole and a Quiet Sun Region." Astrophysical Journal 352 (1990): 333.
- Hahn, Y., and Dalgarno, A. "Production of Negative Hydrogen Ions in Neutral H+H Collisions." Physical Review A 41 (1990): 4783.
- Hales, S. E. G.; Masson, C. R.; Warner, P. J.; and Baldwin, J. E. "The 6C Survey of Radio Sources. III: The Zone $48^\circ < \delta < 68^\circ$, $05^h 25^m < \alpha < 18^h 17^m$." Monthly Notices of the Royal Astronomical Society 246 (1990): 256.
- Harris, D. E. "Extrapolating Electron Spectra to Low Energies." In Low Frequency Astrophysics from Space, Lecture Notes in Physics, vol. 362, eds. N. E. Kassim and K. Wyler, p. 252. Berlin: Springer-Verlag Publishing Company, 1990.
- Harris, D. E.; Forman, W.; Gioia, I. M.; Hale, J. A.; Harnden, F. R.; Jones, C.; Karakashian, T.; Maccacaro, T.; McSweeney, J. D.; Primini, F. A.; Schwartz, J.; Tananbaum, H. D.; and Thurman, J. "The Einstein Observatory Catalog of IPC X-Ray Sources." FITS version issued on CD-ROM, January 1. Cambridge, Massachusetts: Smithsonian Institution Astrophysical Observatory, 1990.
- Harris, D. E.; Forman, W.; Gioia, I. M.; Hale, J. A.; Harnden, F. R.; Jones, C.; Maccacaro, T.; McSweeney, J. D.; Primini, F. A.; Schwarz, J.; and Tananbaum, H. D. "The Einstein Observatory Source Catalog." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 309. Cambridge: Cambridge University Press, 1990.
- Harris, D. E.; Stern, C. P.; and Biretta, J. A. "Integrity of HR1 Images." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 299. Cambridge: Cambridge University Press, 1990.
- Harris, K.; Pomerantz, M. A.; Reynolds, P. T.; Vacanti, G.; Walker, A.; and Weekes, T. C. "Design Considerations for a TeV Telescope at the South Pole." In Astrophysics in Antarctica, American Institute of Physics Conference Proceedings, vol. 198, eds. D. J. Mullan, M. A. Pomerantz, and T. Stanev, p. 20. New York: American Institute of Physics, 1989.
- Hartigan, P.; Curiel, S.; and Raymond, J. C. "Molecular Hydrogen and Optical Images of HH 7-11." Astrophysical Journal (Letters) 347 (1989): L31.
- Hartigan, P.; Hartmann, L.; Kenyon, S. J.; Strom, S. E.; and Skrutskie, M. F. "Correlations of Optical and Infrared Excesses in T Tauri Stars." Astrophysical Journal (Letters) 354 (1990): L25.
- Hartmann, L. "Emission Lines in T Tauri Stars." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 289. San Francisco: Astronomical Society of the Pacific, 1990.
- Hartmann, L.; Calvet, N.; Avrett, E. H.; and Loeser, R. K. "Winds from T Tauri Stars. I. Spherically-Symmetric Models." Astrophysical Journal 349 (1990): 168.
- Hartmann, L., and Kenyon, S. J. "Optical Veiling, Disk Accretion, and the Evolution of T Tauri Stars." Astrophysical Journal 349 (1990): 190.
- Haschick, A. D.; Baan, W. A.; and Menten, K. M. "Detection of Three New Methanol Maser Transitions toward Star Forming Regions." Astrophysical Journal 346

(1989): 330.

- Haschick, A. D.; Baan, W. A.; Schneps, M. H.; Reid, M. J.; Moran, J. M.; and Güsten, R. "VLBI Observations of the Water Vapor Masers in the Nucleus of NGC3079." Astrophysical Journal 356 (1990): 149.
- Haschick, A. D., and Ho, P. T. P. "Formation of OB Clusters: Detection of SiO $v = 0, J = 1 \rightarrow 0$ Emission as an Indicator of Compact Outflow Sources." Astrophysical Journal 352 (1990): 630.
- Haschick, A. D.; Menten, K. M.; and Baan, W. A. "Detection of Widespread Strong Methanol Masers at 44 GHz." Astrophysical Journal 354 (1990): 556.
- Hashimoto, A. "Evaporation Kinetics of Forsterite (Mg_2SiO_4)." Nature 347 (1990): 53.
- Hashimoto, A.; Holmberg, B. B.; and Wood, J. A. "Effects of Melting on Evaporation Kinetics." Meteoritics 24 (1989): 276.
- Heithausen, A., and Thaddeus, P. "The Polaris Flare: Extensive Molecular Gas Near the North Celestial Pole." Astrophysical Journal (Letters) 353 (1990): L49.
- Herring, T. A.; Davis, J. L.; and Shapiro, I. I. "Geodesy by Radio Interferometry: The Application of Kalman Filtering to the Analysis of VLBI Data." Journal of Geophysical Research 95 (1990): 12561.
- Heyer, M. H.; Ladd, E. F.; Myers, P. C.; and Campbell, B. "Infrared and Optical Imaging of Newborn Stars." Astronomical Journal 99 (1990): 1585.
- Ho, P. T. P. "A Submillimeter and Far-Infrared Interferometer on the Moon." In Astrophysics from the Moon, American Institute of Physics Conference Proceedings, vol. 207, eds. M. J. Mumma and H. J. Smith, p. 500. New York: American Institute of Physics, 1990.
- Ho, P. T. P.; Beck, S. C.; and Turner, J. L. "Brackett Line Spectroscopy of Bursts of Star Formation in Nuclei of Galaxies." Astrophysical Journal 349 (1990): 57.
- Ho, P. T. P.; Martin, R. N.; Turner, J. L.; and Jackson, J. M. "VLA Imaging of Extragalactic Ammonia: Hot Gas in IC342." Astrophysical Journal (Letters) 355 (1990): L19.
- Holmberg, B., and Hashimoto, A. "Long-Sought Primordial Fine-Grained Inclusion Discovered." In Lunar and Planetary Science XXI, p. 530. Houston: Lunar and Planetary Science Institute, 1990.
- Huovelin, J., and Saar, S. H. "Models of Broadband Linear Polarization in Cool Stars." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 174. San Francisco: Astronomical Society of the Pacific, 1990.
- . "Results of Coordinated Multiwavelength Observations of Solar-Like Stars." In Solar Photosphere: Structure, Convection, and Magnetic Fields, Proceedings of IAU Symposium No. 138, ed. J. O. Stenflo, p. 443. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Huchra, J. "Future Key Optical Observations of Galaxy Clusters." In Clusters of Galaxies, eds. W. Oegerle, M. Fichett, and L. Danly, p. 359. Cambridge: Cambridge University Press, 1990.
- Huchra, J.; Geller, M.; de Lapparent, V.; and Corwin, H. "The CfA Redshift Survey: Data for the NGP +30 Zone." Astrophysical Journal Supplement 72 (1990): 433.

- Imbert, M.; Andersen, J.; Ardeberg, A.; Duquennoy, A.; Lindgren, H.; Maurice, E.; Mayor, M.; Mermilliod, J. C.; Nordström, B.; and Prévot, L. "Radial Velocities of Southern Stars Obtained with the Photoelectric Scanner CORAVEL. VII. Radial Velocity Variations of Eleven Cepheids in the Large and Small Magellanic Clouds." *Astronomy and Astrophysics Supplement* 81 (1989): 339.
- Kalkofen, W. "Chromospheric Heating." *Astrophysical Journal (Letters)* 346 (1989): L37.
- . "Wave Heating in Magnetic Flux Tubes." In *Solar Photosphere: Structure, Convection, and Magnetic Fields, Proceedings of IAU Symposium No. 138*, ed. J. O. Stenflo, p. 158. Dordrecht, Holland: Kluwer Academic Publishers, 1990; also in *Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series*, vol. 9, ed. G. Wallerstein, p. 48. San Francisco: Astronomical Society of the Pacific, 1990.
- Keene, J. B., and Masson, C. R. "Detection of a 45 AU Radius Source around L1551-IRS5 – A Possible Accretion Disk." *Astrophysical Journal* 355 (1990): 635.
- Kellogg, E.; Falco, E.; Forman, W.; Jones, C.; Slane, P.; and Turner, E. "X-Ray Observations of Gravitational Lenses." In *Proceedings of Workshop on Gravitational Lensing*, eds. Y. Mellier, B. Fort, and G. Soucail, p. 141. New York: Springer-Verlag Publishing Company, 1990.
- Kent, S. M.; Huchra, J. P.; and Stauffer, J. "The Shape of the Mass Distribution in M31 from its Globular Cluster System." *Astronomical Journal* 98 (1989): 2080.
- Kenyon, S. J., and Hartmann, L. "On the Apparent Positions of T Tauri Stars in the HR Diagram." *Astrophysical Journal* 349 (1990): 197.
- Kenyon, S. J.; Hartmann, L.; Strom, K. M.; and Strom, S. E. "An IRAS Survey of the Taurus-Auriga Molecular Cloud." *Astronomical Journal* 99 (1990): 869.
- Keto, E. R., and Ho, P. T. P. "NH₃ Observations of Compressed Post-Shock Molecular Gas in Ionization-Shock Fronts around W33." *Astrophysical Journal* 347 (1989): 349.
- Kim, D.-W. "Interstellar Matter in Early Type Galaxies: Optical Observations." *Astrophysical Journal* 346 (1989): 653.
- Kim, D.-W., and Fabbiano, G. "The Hot and Cold Interstellar Matter of Early Type Galaxies and Their Radio Emission." In *Proceedings of the Workshop "Windows on Galaxies"*, eds. G. Fabbiano, J. Gallagher, and A. Renzini, p. 293. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Kohl, J. L.; Weiser, H.; and Livi, S. "Spectroscopic Measurements of Solar Wind Parameters Near the Sun." In *Solar System Plasma Physics, Geophysical Monograph 54*, eds. J. H. Waite, Jr., J. L. Burch, and R. L. Moore. Washington, DC: American Geophysical Union Books Board, 1989.
- Kurtz, M. J. "Classification and Knowledge." In *Knowledge-Based Systems in Astronomy, Lecture Notes in Physics*, vol. 329, eds. A. Heck and F. Murtagh, p. 91. Berlin: Springer-Verlag Publishing Company, 1989.
- Kurtz, M. J., and Falco, E. E. "Tests of Reduction and Analysis Algorithms for Astronomical Images." In *Data Analysis in Astronomy III*, eds. V. Di Gesu et al., p. 155. New York: Plenum Press, 1989.
- Kurucz, R. L. "Reducing Photometry by Computing Atmospheric Transmission."

- In Infrared Extinction and Standardization, Proceedings of Two Sessions of IAU Commissions 25 and 9, ed. E. Milone, p. 55. Berlin: Springer-Verlag Publishing Company, 1990.
- . “Semiempirical Calculation of gf Values for the Iron Group.” In Transactions of the International Astronomical Union, ed. M. McNally, vol. XXB, p. 168. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Kwok, P. W.; Cawley, M. F.; Hillas, A. M.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D.; Reynolds, P. T.; Vacanti, G.; and Weekes, T. C. “Gamma-Ray Spectrum of the Crab Nebula at TeV Energies.” In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 143. Adelaide: University of Adelaide, 1990.
- Lamb, R. C.; Lewis, D. A.; Akerlof, C. W.; Meyer, D. I.; Weekes, T. C.; Hillas, A. M.; Cawley, M. F.; and Fegan, D. J. “GRANITE, A Stereoscopic Cherenkov Detector for VHE Gamma-Ray Astronomy.” In Proceedings of the International Workshop on Very High Energy Gamma-Ray Astronomy (Crimea, USSR, April 17-21), eds. A. A. Stepanian, D. J. Fegan, and M. F. Cawley, p. 30. Crimea: Crimean Astrophysical Observatory, 1989.
- Lang, M. J.; Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lewis, D. A.; Macomb, D.; Reynolds, P. T.; Vacanti, G.; and Weekes, T. C. “Observations of TeV Gamma Rays from the Crab Nebula Using the Whipple Observatory High Resolution Camera.” In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 139. Adelaide: University of Adelaide, 1990.
- . “New Observations of TeV Gamma Rays from the Crab Nebula Using the Whipple Observatory High Resolution Camera.” Nuclear Physics B (Proceedings Supplement) 14A (1990): 165.
- Langston, G.; Heflin, M.; Conner, S.; Lehar, J.; Carilli, C.; and Burke, B. “Second M.I.T.-Green Bank 5 GHz Survey.” Astrophysical Journal Supplement Series 350 (1990): 869.
- Latham, D. W., and Geary, J. C. “Charge Coupled Devices for Astronomy: A Status Report.” In Automatic Small Telescopes, eds. D. S. Hayes and R. M. Genet, p. 173. Mesa, Arizona: Fairborn Press, 1989.
- Lepp, S.; Dalgarno, A.; and McCray, R. “Molecules in the Ejecta of SN1987A.” Astrophysical Journal 358 (1990): 262.
- Lindstrom, M. M., and Marvin, U. B. “A Geochemical-Petrologic Study of the Populations of Coarse-Fines Particles in Apennine Front Soils.” In Lunar and Planetary Science XXI, p. 702. Houston: Lunar and Planetary Science Institute, 1990.
- Lindstrom, M. M.; Marvin, U. B.; Holmberg, B. B.; and Mittlefehldt, D. W. “Apollo 15 KREEP-Poor Impact Melts. In Proceedings of the 20th Lunar and Planetary Science Conference, p. 77. Houston: Lunar and Planetary Institute, 1990.
- Lorenzini, E. C.; Grossi, M. D.; and Cosmo, M. “Low Altitude Tethered Mars Probe.” Acta Astronautica 21(1) (1990): 1.
- Lorenzini, E. C.; Sullivan, J. D.; and Post, R. S. “New Techniques for Collecting Data Around the Space Station.” Journal of the Astronautical Sciences 38(2) (1990): 121.
- Luttermoser, D. G.; Johnson, H. R.; Avrett, E. H.; and Loeser, R. “Chromospheric

- Structure of Cool Carbon Stars." Astrophysical Journal 345 (1989): 543.
- Kwong, V. H. S.; Gibbons, T. T.; Fang, Z.; Jiang, J.; Knocke, H.; Jiang, Y.; Ruger, B.; Huang, S.; Braganza, E.; Clark, W.; and Gardner, L. D. "Experimental Apparatus for Production, Cooling, and Storing Multiply Charged Ions for Charge-Transfer Measurements." Review of Scientific Instrumentation 61 (1990): 1931.
- Machado, M. E.; Emslie, A. G.; and Avrett, E. H. "Radiative Backwarming in White Light Flares." Solar Physics 124 (1990): 303.
- Madjeski, G. M., and Schwartz, D. A. "Einstein Observatory X-Ray Spectra of BL Lac Objects." In BL LAC Objects, Lecture Notes in Physics, vol. 334, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 267. Heidelberg: Springer-Verlag Publishing Company, 1989.
- Maggio, A.; Vaiana, G. S.; Haisch, B.; Stern, R.; Bookbinder, J.; Harnden, F. R., Jr.; and Rosner, R. "Einstein Observatory Magnitude-Limited X-Ray Survey of Late-Type Giant and Supergiant Stars." Astrophysical Journal 348 (1990): 253.
- McClintock, J. E., and Remillard, R. A. "Cen X-4: Comparisons with A0620-00." Astrophysical Journal 350 (1990): 386.
- McDowell, J. C.; Elvis, M.; Wilkes, B. J.; Wilner, S. P.; Oey, M. S.; Polomski, E.; Bechtold, J.; and Green, R.F. "Weak Bump Quasars." Astrophysical Journal (Letters) 345 (1990): L13.
- Mankin, W. G.; Coffey, M. T.; Chance, K. V.; Traub, W. A.; Carli, B.; Mencaraglia, F.; Piccioli, S.; Nolt, I. G.; Radostitz, J. V.; Zander, R.; Roland, G.; Jonson, D. W.; Stokes, G. M.; Farmer, C. B.; and Seals, R. K. "Intercomparison of Measurements of Stratospheric Hydrogen Fluoride." Journal of Atmospheric Chemistry 10 (1990): 219.
- Marsden, B. G. "The Sungrazing Comet Group. II." Astronomical Journal 98 (1989): 2306.
- . Catalogue of Cometary Orbits, 6th edition, 97 pp. Cambridge, Massachusetts: Minor Planet Center, 1989.
- . Catalogue of Orbits of Unnumbered Minor Planets, 3rd edition, 152 pp. Cambridge, Massachusetts: Minor Planet Center, 1989.
- . Magnetic Tape of Observations of Minor Planets and Comets, 6th edition, 543,943 entries. Cambridge, Massachusetts: Minor Planet Center, 1989.
- . "The Sungrazing Comets Revisited." In Asteroids, Comets, Meteors, III, eds. C.-I. Lagerkvist, H. Rickman, B. A. Lindblad, and M. Lindgren, p. 393. Uppsala, Sweden: Uppsala University, 1990.
- . "Original and Future Cometary Orbits. IV." Astronomical Journal 99 (1990): 1971.
- . (editor) Minor Planet Circulars Nos. 15121-15600, 1989.
- . (editor) Minor Planet Circulars Nos. 15601-16928, 1990.
- Marsden, B. G., and Green, D. W. E. (editors) International Astronomical Union Circulars Nos. 4869-4936, 1989.
- . (editors) International Astronomical Union Circulars Nos. 4937-5106, 1990.
- Marshall, L. A.; Stefanik, R. P.; Nations, H. L.; and Davis, R. J. "SAO 23229: A New Double-Lined Spectroscopic Eclipsing Binary." International Astronomical Union Information Bulletin on Variable Stars No. 3447 (1990): March 27.

- Marvin, U. B. "Diverse Components in Dust Bands in Allan Hills Ice Samples." In Workshop on Meteorite Stranding Surfaces, Lunar and Planetary Institute Technical Report 90-03, eds. W. A. Cassidy and I. M. Whillans, p.75. Houston: Lunar and Planetary Institute, 1990.
- Marvin, U. B.; Holmberg, B. B.; and Lindstrom, M. M. "New Pieces of the Lunar Granite-Quartz Monzodiorite Puzzle." In Lunar and Planetary Science XXI, p. 738. Houston: Lunar and Planetary Institute, 1990.
- Masson, C. R. "The Structures and Distances to BD+30° 3639 and NGC6572." Astrophysical Journal 346 (1989): 243.
- . "On the Structure of Ionization-Bounded Planetary Nebulae." Astrophysical Journal 348 (1990): 580.
- Masson, C. R.; Mundy, L. G.; and Keene, J. "The Extremely High Velocity CO Flow in HH 7-11." Astrophysical Journal (Letters) 357 (1990): L25.
- Mattison, E. M., and Vessot, R. F. C. "Analysis of Fundamental and Systematic Effects Limiting Hydrogen Maser Frequency Stability." In Proceedings of the 21st Annual Precise Time and Time Interval Applications and Planning Meeting, p. 433. Washington, DC: U.S. Naval Observatory, 1989.
- . "Performance of Model VLG-12 Advanced Hydrogen Masers." In Proceedings of the 44th Annual Symposium on Frequency Control, p. 66. New York: Institute of Electrical and Electronics Engineers, 1990.
- Mattison, E. M.; Vessot, R. F. C.; and Walsworth, R. L. "Cryogenic Hydrogen Maser Clock for Use in Space." In Summary of Proceedings of the Sixth Oregon Conference on Low Temperature Physics, ed. R. Donnelly, p. 28. Eugene, Oregon: University of Oregon, 1989.
- Mauas, P. J.; Avrett, E. H.; and Loeser, R. "Computed Profiles of the Solar CI Multiplets at $\lambda 1561$ and $\lambda 1657$." Astrophysical Journal 345 (1989): 1104.
- . "On Carbon Monoxide Cooling in the Solar Atmosphere." Astrophysical Journal 357 (1990): 279.
- Meaburn, J.; Whitehead, M. J.; Raymond, J. C.; Clayton, C. A.; and Marston, A. P. "Echelle Observations of the Multiple Shells of the Supernova Remnant IC443." Astronomy and Astrophysics 227 (1989): 191.
- Melnick, G. J. "Infrared Line Emission from High-Velocity Outflows in Star Forming Regions." In Infrared Spectroscopy in Astronomy, ESA Publications SP-290, ed. B. H. Kaldeich, p. 259. Noordwijk, The Netherlands: ESTEC, 1989.
- . "The Submillimeter Wave Astronomy Satellite." In Submillimetre and Millimetre Wave Astronomy, ed. A. S. Webster, p. 93. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- . "Observations of Atomic Species in Dense Clouds." In Molecular Astrophysics, ed. T. W. Hartquist, p. 273. Cambridge: Cambridge University Press, 1990.
- Melnick, G. J.; Stacey, G. J.; Genzel, R.; Poglitsch, A.; and Lugten, J. B. "Further Observations of Rotationally Excited, Far-Infrared ^{16}OH and ^{18}OH Emission in Orion-KL: Tighter Constraints on the Nature of the Emitting Region." Astrophysical Journal 348 (1990): 161.
- Menten, K. M., and Melnick, G. J. "Hot Water Around Late-Type Stars: Detection of Two MM-Wave Emission Lines from the ν_2 Vibrationally Excited State." Astrophysical Journal (Letters) 341 (1990): L91.

- Menten, K. M.; Melnick, G. J.; and Phillips, T. G. "Submillimeter Water Masers." *Astrophysical Journal (Letters)* 350 (1990): L41.
- Menten, K. M.; Olano, C. A.; Harju, J.; and Walmsley, C. M. "The High Density Molecular Cores near L1551-IRS5 and B335-FIR." *Astronomy and Astrophysics* 223 (1989): 258.
- Metcalf, T. R.; Canfield, R. C.; Avrett, E. H.; and Metcalf, F. T. "Flare Heating and Ionization of the Low Chromosphere. I. Inversion Methods for Mg I λ 4571 and λ 5173 Å." *Astrophysical Journal* 350 (1990): 463.
- Micela, G.; Sciortino, S.; Vaiana, G. S.; Harnden, F. R., Jr.; Rosner, R.; and Schmitt, J. H. M. M. "X-Ray Studies of Coeval Star Samples. II. The Pleiades Cluster as Observed with the Einstein Observatory." *Astrophysical Journal* 348 (1990): 557.
- Mikolajewska, J.; Kenyon, S. J.; and Mikolajewski, M. "On the Nature of the Symbiotic Star BF Cygni." *Astronomical Journal* 98 (1989): 1427.
- Mollaaghbabab, R.; Gottlieb, C. A.; Vrtilek, J. M.; and Thaddeus, P. "The Rotational Spectrum of Carbon-13 and Vibrationally Excited SiC." *Astrophysical Journal (Letters)* 352 (1990): L21.
- Moran, J. M. "Magnetic Fields in Interstellar Masers." In *Galactic and Intergalactic Magnetic Fields, Proceedings of IAU Symposium No. 140*, eds. R. Beck, P. P. Kronberg, and R. Wielebinski, p. 301. Dordrecht: Holland: Kluwer Academic Publishers, 1990.
- . "Masers." In *Molecular Astrophysics*, ed. T. Hartquist, p. 397. Cambridge: Cambridge University Press, 1990.
- Moran, J. M.; Rodríguez, L. F.; Gwinn, C. R.; and Backer, D. C. "The Large Scattering Disk of NGC6334B." *Astrophysical Journal* 348 (1990): 147.
- Murcray, D.; Goldman, A.; Kusters, J.; Zander, R.; Evans, W.; Louisnard, N.; Alamichel, C.; Bangham, M.; Pollitt, S.; Carli, B.; Dinelli, B.; Piccioli, S.; Volboni, A.; Traub, W. A.; and Chance, K. "Intercomparison of Stratospheric Water Vapor Profiles Obtained During the Balloon Intercomparison Campaign." *Journal of Atmospheric Chemistry* 10 (1990): 159.
- Murison, M. A. "The Fractal Dynamics of Satellite Capture in the Circular Restricted Three-Body Problem." *Astronomical Journal* 98 (1989): 2346.
- Myers, P. C., and Goodman, A. A. "Observations and Models of Magnetic Molecular Clouds." In *Galactic and Intergalactic Magnetic Fields, Proceedings of IAU Symposium No. 140*, eds. R. Beck, P. Kronberg, and R. Wielebinski, p. 319. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Nesci, R.; Gioia, I. M.; Maccacaro, T.; Morris, S. L.; Perola, G. C.; Schild, R. E.; and Wolter, A. "A Cooling Flow in a High Redshift X-Ray Selected Cluster of Galaxies." *Astrophysical Journal* 344 (1989): 104.
- Neufeld, D. A., and Melnick, G. J. "Interpretation of the Newly Discovered Submillimeter Water Maser." *Astrophysical Journal (Letters)* 352 (1990): L9.
- Nolan, K.; Porter, N. A.; Fegan, D. J.; Chantell, M.; and Weekes, T. C. "Search for Short-Time Scale Bursters of TeV Gamma Rays from Primordial Black Holes." In *Proceedings of the 21st International Cosmic Ray Conference*, ed. R. J. Protheroe, vol. 2, p. 150. Adelaide: University of Adelaide, 1990.
- Nordström, B., and Andersen, J. "F Stars Within 400 pc Towards the North Galactic

- Pole: A Progress Report." In The Gravitational Force Perpendicular to the Galactic Plane, eds. A. G. Davis Philip and P. K. Lü, p. 153. Schenectady, New York: L. Davis Press, 1989.
- O'Flaherty, K. ; Cawley, M. F.; Fegan, D. J.; Kwok, P.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D.; Reynolds, P. T.; Weekes, T. C.; and Vacanti, G. "Search for Periodic High Energy Gamma Rays from Cygnus X-3." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 2. Adelaide: University of Adelaide, 1990.
- Olive, K. A.; Schramm, D. N.; Steigman, G.; and Walker, T. P. "Big-Bang Nucleosynthesis Revisited." Physics Letters 236B (1990): 454.
- Ossorio, P. G., and Kurtz, M. J. "Automated Classification of Resolved Galaxies." In Data Analysis in Astronomy III, eds. V. Di Gesu et al., p. 121. New York: Plenum Press, 1989.
- Ostro, S. J.; Campbell, D. B.; Hine, A. A.; Shapiro, I. I.; Chandler, J. F.; Werner, C. L.; and Rosema, K. D. "Radar Images of Asteroid 1627 Ivar." Astronomical Journal 99 (1990): 2012.
- Ostro, S. J.; Chandler, J. F.; Hine, A. A.; Rosema, K. D.; Shapiro, I. I.; and Yeomans, D. K. "Radar Images of Asteroid 1989 PB." Science 248 (1990): 1523.
- Owocki, S. P.; Castor, J. L.; and Rybicki, G. B. "Physics of Instabilities in Radiatively Driven Stellar Winds. In Physics of Luminous Blue Variables, eds. K. Davidson, A. F. J. Moffatt, and H. J. G. L. M. Lamers, p. 291. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Peletier, R. F.; Valentijn, E. A.; and Jameson, R. F. "Near-Infrared Surface Photometry of Bright Elliptical Galaxies." Astronomy and Astrophysics 232 (1990): 62.
- Pellegrini, P. S.; da Costa, L. N.; Huchra, J. P.; Latham, D. W.; and Willmer, C. N. A. "The Distribution of Galaxies in the Southern Galactic Cap." Astronomical Journal 99 (1990): 751.
- Peres, G.; Collura, A.; Reale, F.; and Fabbiano, G. "Time Variability of the X-Ray Source in M33 and M31." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 267. Cambridge: Cambridge University Press, 1990.
- Pilachowski, C. A.; Willmarth, W. W.; Mathieu, R. D.; Latham, D. W.; Both, J.; and Armondroff, T. E. "A Spectroscopic Binary Giant in the Galactic Cluster NGC 752." Publications of the Astronomical Society of the Pacific 101 (1989): 991.
- Pindzola, M. S.; Bottrell, G. J.; and Bottcher, C. "Strong-Field Laser Ionization of Alkali Atoms Using Two-Dimensional Cylindrical and Three-Dimensional Cartesian Time-Dependent Hartree-Fock Theory," Journal of the Optical Society of America B7 (1990): 659.
- Press, W. H.; Ryden, B. S.; and Spergel, D. N. "Dynamical Evolution of Domain Walls in an Expanding Universe." Astrophysical Journal 347 (1989): 590.
- . "Single Mechanism for Generating Large Scale Structure and Providing Dark Missing Matter." Physical Review Letters 64 (1990): 1084.
- Radick, R. R.; Lockwood, G. W.; and Baliunas, S. L. "Stellar Activity and Brightness Variations: A Glimpse at the Sun's History." Science 247 (1990): 39.
- Ramella, M.; Geller, M.; and Huchra, J. "The Two-Point Correlation Function for Groups of Galaxies in the Center for Astrophysics Redshift Survey."

- Astrophysical Journal 353 (1990): 51.
- Raymond, J. C. "Highly Charged Ions in Astrophysics." In Physics of High-Ionized Atoms, ed. R. Marrus, p. 189. New York: Plenum Press, 1990.
- Reasenberg, R. D. "IOTA Interferometer Project: Plans, Engineering, and Laboratory Results." In Amplitude and Intensity Spatial Interferometry, Proceedings of SPIE, vol. 1237, ed. J. Breckenridge, p. 128. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- . "Kalman-Filter Fringe Tracking in an Optical Interferometer." In Amplitude and Intensity Spatial Interferometry, Proceedings of SPIE, vol. 1237, ed. J. Breckenridge, p. 172. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Reasenberg, R. D., and Chandler, J. F. "A Deflection Test with POINTS, An Astrometric Optical Interferometer in Space." In Proceedings of the Fifth Marcel Grossmann Meeting, eds. D. G. Blair and M. J. Buckingham, p. 1667. Singapore: World Scientific Publishing, 1989.
- Regos, E., and Geller, M. "Infall Patterns Around Rich Clusters of Galaxies." Astronomical Journal 98 (1990): 755.
- Reid, M. J. "Masers and Stellar Magnetic Fields." In Galactic and Intergalactic Magnetic Fields, Proceedings of IAU Symposium No. 140, eds. R. Beck, P. Kronberg, and R. Wielebinski, p. 21. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Reid, M. J., and Menten, K. M. "A Sub-Arcsecond H₂O Maser Shell Surrounding a Variable Star." Astrophysical Journal (Letters) 360 (1990): L51.
- Reipurth, B.; Lindgren, H.; Norström B.; and Mayor, M. "Spectroscopic Pre-Main Sequence Binaries. I. Improved Elements of V826 Tauri." Astronomy and Astrophysics 235 (1990): 197.
- Remillard, R. A.; Buckley, D. A. H.; Schwartz, D. A.; Tapia, S.; and Tuohy, I. R. "Two X-Ray Selected BL Lac Objects Observed with the HEAO-1 Modulation Collimator." Astrophysical Journal 345 (1989): 140.
- Resvanis, L. K.; Szentgyorgyi, A.; Kertzman, M.; Slane, P.; Hudson, J.; Kelley, L.; Learned, J. G.; Sinnis, C.; Austin, R.; Berezny, N.; Gaidos, J.; Loeffler, F.; Palfrey, T.; Sembroski, G.; Wilson, C.; Zirnstein, G.; Weeks, D. D.; Camerini, U.; Finley, J. P.; Fry, W.; Jacobsen, J.; Jaworski, M.; Jennings, J.; Kenter, A.; Loveless, R.; March, R.; Morse, R.; Reeder, D. D.; and Skinner, M. "VHE Gamma-Ray Results at the Haleakala Gamma Observatory." Nuclear Physics B (Proceedings Supplement) 14A (1990): 205.
- Reynolds, P. T.; Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D.; Vacanti, G.; and Weekes, T. C. "Pulsed TeV Radiation from Hercules X-1." Nuclear Physics B (Proceedings Supplement) 14A (1990): 200.
- Reynolds, P. T.; Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lewis, D. A.; Macomb, D.; Vacanti, G.; and Weekes, T. C. "Observations of Hercules X-1 at TeV Energies." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 99. Adelaide: University of Adelaide, 1990.
- . "Comprehensive Analysis of the 1984-87 Whipple Observatory Hercules

- X-1 TeV Gamma-Ray Database." In Proceedings of the International Workshop on Very High Energy Gamma-Ray Astronomy (Crimea, USSR, April 17-21), eds. A. A. Stepanian, D. J. Fegan, M. F. Cawley, p. 160. Crimea: Crimean Astrophysical Observatory, 1989.
- Reynolds, P. T.; Cawley, M. F.; Hillas, A. M.; Kwok, P. W.; Lang, M. J.; Lamb, R. C.; Lewis, D. A.; Macomb, D.; Vacanti, G.; and Weekes, T. C. "Optical and VHE Monitoring of HZ HER/HER X-1 Binary System." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 130. Adelaide: University of Adelaide, 1990.
- Reynolds, P. T.; Fegan, D. J.; Harris, K.; Lang, M. J.; Vacanti, G.; and Weekes, T. C. "A Search for TeV Gamma-Ray Emission from the Galactic Plane." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 383. Adelaide: University of Adelaide, 1990.
- Rhodes, C.; Kurtz, M. J.; and Rey-Watson, J. "An Astronomical Software Documentation Collection at the Smithsonian Astrophysical Observatory." In Library and Information Services in Astronomy, Proceedings of International Astronomical Union Colloquium No. 110, eds. G. Wilkins and S. Stevens-Rayburn, p. 215. Washington, DC: U.S. Naval Observatory, 1989.
- Robbins, D.; Waters, J.; Zimmerman, P.; Jarnot, R.; Hardy, J.; Pickett, H.; Pollitt, S.; Traub, W. A.; Chance, K.; Louisnard, N.; Evans, W.; and Kerr, J. "Ozone Measurements from the Balloon Intercomparison Campaign." Journal of Atmospheric Chemistry 10 (1990): 181.
- Robinson, L.; Brown, W.; Gilmore, D. K.; Stover, R.; Wei, M.-Z.; and Geary, J. "Characteristics of Large Ford and Reticon CCD's." In Instrumentation in Astronomy VI, Proceedings of SPIE, vol. 1235, ed. D. L. Crawford, p. 315. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Rodríguez, L. F.; Curiel, S.; Moran, J. M.; Mirabel, I. F.; Roth, M.; and Garay, G. "Large Proper Motions in the Remarkable Triple Source in Serpens." Astrophysical Journal (Letters) 346 (1989): L85.
- Rodríguez, L. F.; Ho, P. T. P.; Torrelles, J. M.; Curiel, S.; and Cantó, J. "VLA Observations of the Herbig-Haro 1-2 System." Astrophysical Journal 352 (1990): 645.
- Rodríguez, L. F.; Myers, P. C.; Cruz-González, I.; and Terebey, S. "Radio Continuum Observations of IRAS Sources Associated with Dense Cores." Astrophysical Journal 347 (1989): 461.
- Roemer, E., and Marsden, B. G. "IAU Commission 6." In Proceedings of the Twentieth General Assembly, vol. XXB, ed. D. McNally, p. 119. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Rybicki, G. B.; Owocki, S. P.; and Castor, J. I. "Instabilities in Line-Driven Stellar Winds: IV. Linear Perturbations in Three Dimensions." Astrophysical Journal 349 (1990): 274.
- Ryden, B. S. "Oblate Spheroidal Mass Distributions of Varying Ellipticity." Monthly Notices of the Royal Astronomical Society 244 (1990): 341.
- Ryden, B. S.; Press, W. H.; and Spergel, D. N. "The Evolutions of Networks of Domain Walls and Cosmic Strings." Astrophysical Journal 357 (1990): 293.
- Saar, S. H. "Magnetic Fields on Solar-Like Stars: The First Decade." In The Solar

- Photosphere: Structure, Convection, and Magnetic Fields, IAU Symposium No. 138, ed. O. Stenflo, p. 427. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Saar, S. H., and Bruning, D. H. "Line Asymmetries in G and K Dwarfs: Dependence on Spectral Type and Activity." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 168. San Francisco: Astronomical Society of the Pacific, 1990.
- Saar, S. H., and Huovelin, J. "The Wavelength Dependence of Broadband Linear Polarization in Cool Stars." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 85. San Francisco: Astronomical Society of the Pacific, 1990.
- Saar, S. H., and Neff, J. E. "Spot Temperatures and Area Coverages on Active Dwarf Stars." In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Astronomical Society of the Pacific Conference Series, vol. 9, ed. G. Wallerstein, p. 171. San Francisco: Astronomical Society of the Pacific, 1990.
- Saar, S. H.; Nordström, B.; and Andersen, J. "Physical Parameters of Three Chromospherically Active Binaries." Journal of Astronomy and Astrophysics 235 (1990): 291.
- Schmitt, J. H. M. M.; Micela, G.; Sciortino, S.; Vaiana, G. S.; Harnden, F. R., Jr.; and Rosner, R. "X-Ray Studies of Coeval Star Samples. III. X-Ray Emission in the Ursa Major Stream." Astrophysical Journal 351 (1990): 492.
- Schwartz, D. A.; Brissenden, R. J. V.; Touhy, I. B.; Feigelson, E. D.; Hertz, P. L.; and Remillard, R. A. "BL Lac Objects Detected in the HEAO-1 All-Sky Survey." In BL LAC Objects, Lecture Notes in Physics, vol. 334, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 209. Heidelberg: Springer-Verlag Publishing Company, 1989.
- Schwartz, D. A.; Zian, Y.; and Tucker, W. H. "Comparing Measurements of the AGN X-Ray Spectra with the Shape of the Diffuse X-Ray Background Spectrum." In Two Topics in X-Ray Astronomy: AGN and the X-Ray Background, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrock, p. 1043. Noordwijk, The Netherlands: ESTEC, 1989.
- Seward, F. D. "Einstein Observations of Galactic Supernova Remnants." Astrophysical Journal (Supplement) 73 (1990): 781.
- Shapiro, J. B., and Bloemhof, E. E. "Fabrication of Wire-Grid Polarizers and Dependence of Submillimeter-Wave Optical Performance on Pitch Uniformity." International Journal of Infrared and Millimeter Waves 11 (1990): 973.
- Shu, F. H.; Tremaine, S.; Adams, F. C.; and Ruden, S. P. "SLING Amplification and Eccentric Gravitational Instabilities in Gaseous Disks." Astrophysical Journal 358 (1990): 495.
- Sion, E. M.; Kenyon, S. J.; and Aannestad, P. A. "An Atlas of Optical Spectra of DZ White Dwarfs and Related Objects." Astrophysical Journal Supplement Series 72 (1990): 707.
- Smith, B. A.; Soderblom, L. A.; Banfield, D.; Barnet, C.; Basilevsky, A. T.; Beebe,

- R. F.; Bollinger, K.; Boyce, J. M.; Bruhlic, A.; Briggs, G. A.; Brown, R. H.; Chyba, C.; Collins, S. A.; Colvin, T.; Cook, A. F., II; Crisp, D.; Croft, S. K.; Cruikshank, D.; Cuzzi, J. N.; Danielson, G. E.; Davies, M. E.; DeJong, E.; Dones, I.; Godfrey, D.; Goguen, J.; Grenier, I.; Haemmerle, V. R.; Hammel, H.; Hansen, C. J.; Helfenstein, C. P.; Howell, C.; Hunt, G. E.; Ingersoll, A. P.; Johnson, T. V.; Kurgel, N.; Kirk, R.; Kuehn, D. I.; Limaye, S.; Masursky, H.; McEwen, A.; Morrison, D.; Owen, T.; Owen, W.; Pollack, J. B.; Porco, C. C.; Ruges, K.; Rogers, P.; Rudy, D.; Sagan, C.; Schwartz, J.; Shoemaker, E. M.; Showalter, M.; Siccordy, B.; Simonelli, D.; Spencer, J.; Sperovsky, L. A.; Stoker, C.; Strom, R. G.; Suomi, V. E.; Synnott, S. P.; Terrile, R. J.; Thomas, P.; Thompson, W. R.; Verbiscer, A.; and Veverha, V. "Voyager 2 at Neptune: Imaging Science Results." *Science* 246 (1989): 1422.
- Stacy, J. G.; Bertsch, D. L.; Dame, T. M.; Fichtel, C. E.; Sreekumar, P.; and Thaddeus, P. "High-Energy Gamma-Ray Observations and the Coupling Between Galactic Cosmic Rays and Matter." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, p. 154. Adelaide: University of Adelaide, 1990.
- . "On the Origin of the Diffuse High-Energy Gamma-Ray Emission: A CO Survey of Selected Regions at High Galactic Latitudes." In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, p. 253. Adelaide: University of Adelaide, 1990.
- Stacy, J. G.; Dame, T. M.; Thaddeus, P.; and Bitran, M. E. "Wide-Line Molecular Clouds and the Gamma-Ray Deficit Toward the Galactic Center: Prospects for GRO Observations." In Proceedings of the Gamma Ray Observatory Science Workshop, ed. N. Johnson, p. 4. Washington, DC: National Aeronautics and Space Administration, 1990.
- Stauffer, J. R.; Hartmann, L. W.; and Jones, B. F. "Rotational Velocities of Newly Discovered, Low-Mass Members of the Alpha Persei Cluster." *Astrophysical Journal* 346 (1989): 160.
- Stoche, J. T.; Morris, S. L.; Gioia, I. M.; Maccacaro, T.; Schild, R. E.; and Wolter, A. "No Evidence for Radio-Quiet BL Lacertae Objects." *Astrophysical Journal* 348 (1990): 141.
- Strauss, M.; Davis, M.; Yahil, A.; and Huchra, J. "A Redshift Survey of IRAS Galaxies, I. Sample Selection." *Astrophysical Journal* 361 (1990): 49.
- Sutton, E. C.; Danchi, W. C.; Jaminet, P. A.; and Masson, C. R. "CO $J = 3 \rightarrow 2$ Observations of the Neutral Disk in Sgr A(W)." *Astrophysical Journal* 348 (1990): 503.
- Tagliaferri, G.; Giommi, P.; Beuermann, K.; Branduardi-Raymont, G.; Brissenden, R.; Mason, K. O.; Murdin, P.; Thomas, H.-C.; and Tuohy, I. "Two New BL Lacertae Objects Discovered in the Error Boxes of Hard X-Ray Sources." In BL LAC Objects, Lecture Notes in Physics, vol. 334, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 257. Heidelberg: Springer-Verlag Publishing Company, 1990.
- Tananbaum, H. "From Einstein to AXAF." In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 15. Cambridge: Cambridge University Press, 1990.
- Tang, G.; Bartel, N.; Ratner, M. I.; Shapiro, I. I.; Baath, L. B.; and Rönning, B.

- “Recent Evolution of Jet Components in 3C345 at 3.6 cm.” In Parsec-Scale Radio Jets, eds. J. A. Zensus and T. J. Pearson, p. 32. Cambridge: Cambridge University Press, 1990.
- Thielemann, F.-K.; Hashimoto, M.; and Nomoto, K. “Explosive Nucleosynthesis in SN1987A. II: Composition, Radioactivities, and the Neutron Star Mass.” Astrophysical Journal 349 (1990): 222.
- Thorstensen, J.; Wegner, G.; Hamwey, R.; Boley, F.; Geller, M.; Huchra, J.; and Kurtz, M. “Redshifts for a Sample of Fainter Galaxies in the First CfA Survey Slice.” Astronomical Journal 98 (1989): 1143.
- Torrelles, J. M.; Ho, P. T. P.; Rodríguez, L. F.; and Cantó, J. “Monoceros R2: Interactions of a Molecular Cloud Core with a Stellar Wind?” Astrophysical Journal 349 (1990): 529.
- Torrelles, J. M.; Ho, P. T. P.; Rodríguez, L. F.; Cantó, J.; and Verdes-Montenegro, L. “VLA Observations of Ammonia and Continuum in Regions with High-Velocity Gaseous Outflows. II.” Astrophysical Journal 346 (1989): 756.
- . “VLA Observations of Ammonia Toward Molecular Outflow Sources.” In Proceedings of the Meeting on Dynamics of Astrophysical Disks, ed. J. Sellwood, p. 61. Cambridge: Cambridge University Press, 1989.
- Townes, C. H., and Melnick, G. J. “Atmospheric Transmission in the Far-Infrared at the South Pole and Astronomical Applications.” Publications of the Astronomical Society of the Pacific 102 (1990): 357.
- Traub, W. A. “Pupil Geometry and Pupil Reimaging in Telescope Arrays.” In Amplitude and Intensity Spatial Interferometry, Proceedings of SPIE, vol. 1237, ed. J. B. Breckinridge, p. 70. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Traub, W. A.; Johnson, D. G.; and Chance, K. V. “Stratospheric Hydroperoxyl Measurements.” Science 247 (1990): 446.
- Traub, W. A.; Lacasse, M. G.; and Carleton, N. P. “Spectral Dispersion and Fringe Detection in IOTA.” In Amplitude and Intensity Spatial Interferometry, Proceedings of SPIE, vol. 1237, ed. J. B. Breckinridge, p. 145. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Trinchieri, G.; Fabbiano, G.; and Elvis, M. “A Highly X-Ray Variable AGN: A Microlensing Candidate.” Astrophysical Journal 356 (1990): 430.
- Trinchieri, G.; Fabbiano, G.; and Romaine, S. “Einstein X-Ray Observations of M101.” Astrophysical Journal 356 (1990): 110.
- Turner, J. L.; Martin, R. N.; and Ho, P. T. P. “Hot Gas in the Nucleus of M82: ^{12}CO and ^{13}CO $J = 3 \rightarrow 2$ Observations.” Astrophysical Journal 351 (1990): 418.
- . “CO (3–2) Observations of Spiral Galaxies.” In Proceedings of International Symposium on Submillimeter and Millimeter Astronomy, Kona, eds. G. D. Watt and A. S. Webster, p. 219. Dordrecht, Holland: Kluwer Academic Publishers, 1990.
- Vacanti, G.; Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D.; Reynolds, P. T.; and Weekes, T. C. “Search for TeV Emission from the Extragalactic Objects 3C273, 3C279, and M87.” In Proceedings of the 21st International Cosmic Ray Conference, ed. R. J. Protheroe, vol. 2, p. 329. Adelaide: University of Adelaide, 1990.

- . “TeV Gamma Ray Astronomy in the GRO Era.” In Proceedings of the GRO Workshop, ed. W. N. Johnson, p. 4. Greenbelt: Goddard Space Flight Center, 1989.
- van Ballegooijen, A. A. “Magnetic Fine Structure of Coronal Loops.” In Proceedings of the Mini-Workshop on Flux Tubes in the Solar Atmosphere, eds. E. Leer and P. Maltby, p. 49. Oslo: Institute of Theoretical Astrophysics, 1989.
- . “Magnetic Heating of Stellar Chromospheres and Coronae.” In Proceedings of the Sixth Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, Astronomical Society of the Pacific Conference Series, vol.9, ed. G. Wallerstein, p. 15. San Francisco: Astronomical Society of the Pacific, 1990.
- van Ballegooijen, A. A., and Martens, P. C. H. “Magnetic Fields in Quiescent Prominences.” Astrophysical Journal 361 (1990): 283.
- Van Buren, D.; MacLow, M.-M.; Wood, D. O. S.; and Churchwell, E. “Cometary Compact HII Regions Are Stellar Wind Bow Shocks.” Astrophysical Journal 353 (1990): 570.
- van Houten-Groeneveld, I.; van Houten, C. J.; Wisse-Schouten, M.; Bardwell, G.; and Gehrels, T. “The 1977 Palomar-Leiden Trojan Survey.” Astronomy and Astrophysics 224 (1989): 299.
- Verdes-Montenegro, L.; Torrelles, J. M.; Rodríguez, L. F.; Anglada, G.; López, R.; Estalella, R.; Cantó, J.; and Ho, P. T. P. “Further Studies of the Role of Dense Molecular Clouds around Outflow Sources.” Astrophysical Journal 346 (1989): 193.
- Vrtilek, S. D.; Penninx, W.; Raymond, J. C.; and Verbunt, F. “IUE Observations of Cyg X-2 and Sco X-1.” In Two Topics in X-Ray Astronomy: AGN and the X-Ray Background, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrick, p. 671. Noordwijk, The Netherlands: ESTEC, 1989.
- Vrtilek, S. D.; Raymond, J. C.; Garcia, M. R.; Verbunt, F.; Hasinger, G.; and Kurster, M. “Observations of Cygnus X-2 with IUE: Ultraviolet Results from a Multiwavelength Campaign.” Astronomy and Astrophysics 235 (1990): 162.
- Walker, T. P. “Radiative Neutrino Decays, SN1987A, and the Submillimeter Background.” Physical Review D 41 (1990): 689.
- Walsworth, R. L., and Silvera, I. F. “Non-Linear Quantum Mechanics for Systems of Composite Spin.” Physics Review A 42 (1990): 63.
- Walsworth, R. L.; Silvera, I. F.; Mattison, E. M.; and Vessot, R. F. C. “Test of the Linearity of Quantum Mechanics in an Atomic System with a Hydrogen Maser.” Physics Review Letters 64 (1990): 2599.
- Walsworth, R. L.; Silvera, I. F.; Vessot, R. F. C.; Mattison, E. M.; and Dinges, M. L. “The Cryogenic Hydrogen Maser: Projected Performance and Recent Progress toward Spaceborne Applications.” In Proceedings of the 21st Annual Precise Time and Time Interval Applications and Planning Meeting, p. 359. Washington, DC: U.S. Naval Observatory, 1989.
- Wang, B. “Components of Cosmic Background Radiation and Their Interaction with Matter.” Ph.D. Thesis in Astronomy, Harvard University, November 1989.
- Wang, B., and Field, G. B. “Galaxy Formation by Dust?” In Interstellar Dust, Proceedings of IAU Symposium No. 135, NASA CP 3036, eds. A. G. G. M. Tielens and L. J. Allamandola, p. 359. Washington, DC: National Aeronautics and Space

- Administration, 1989.
- . “Galaxy Formation by Mock Gravity with Dust?” Astrophysical Journal 346 (1989): 3.
- . “Possible Infrared Signature of Decaying Particles.” Astrophysical Journal (Letters) 345 (1989): L9.
- Weekes, T. “Gamma Ray Astronomy at the Highest Energies.” In Nuclear Instrumentation and Methods (Proceedings of the 4th International Conference on Radiation Physics), A280 (1989): 349.
- . “Very High Energy Gamma-Ray Astronomy.” In Astrophysics in Antarctica, eds. D. J. Mullan, M. A. Pomerantz, and T. Stanev, p. 3. New York: American Institute of Physics, 1989.
- . “Very High Energy Gamma Ray Astronomy: On the Threshold.” Annals of the New York Academy of Sciences (Proceedings of 14th Texas Symposium on Relativistic Astrophysics) 571 (1989): 372.
- Weekes, T. C.; Cawley, M. F.; Fegan, D. J.; Gibbs, K. G.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lewis, D. A.; Macomb, D.; Porter, N. A.; Reynolds, P. T.; and Vacanti, G. “Observation of TeV Gamma Rays from the Crab Nebula Using the Atmospheric Cerenkov Imaging Techniques.” Astrophysical Journal 342 (1989): 379.
- Welther, B. L. “Harvard’s First High-Altitude Station.” Journal of the American Association of Variable Star Observers 18 (1989): 78.
- Welty, A. D.; Strom, S. E.; Strom, K. M.; Hartmann, L. W.; Kenyon, S. J.; Grasdalen, G. L.; and Stauffer, J. R. “Further Evidence for Differential Rotation in V1057 Cyg.” Astrophysical Journal 349 (1990): 328.
- Whitney, C. Starfinder, fifth edition. New York: Knopf, 1989.
- . “Random Processes in Physical Systems. New York: John Wiley and Sons, 1990.
- Wilkes, B. J.; Masnou, J.-L.; Elvis, M.; McDowell, J.; and Arnaud, K. “The Soft X-Ray Excess in Einstein Quasar Spectra.” In Two Topics in X-Ray Background, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrick, p. 1081. Noordwijk, The Netherlands: ESTEC, 1989.
- Wilkes, B. J.; Tananbaum, H.; Avni, Y.; Oey, M. S.; and Worrall, D. M. “The Einstein Database of Optically and Radio Selected Quasars.” In Imaging X-Ray Astronomy: A Decade of Einstein Observatory Achievements, ed. M. Elvis, p. 327. Cambridge: Cambridge University Press, 1990.
- Willner, S. P.; Campbell, A.; Huchra, J. P.; and Kleinmann, S. G. “A Search for Shocked Molecular Hydrogen in High Luminosity Galaxies.” Astronomical Journal 100 (1990): 635.
- Witt, A. N.; Oliveri, M. V.; and Schild, R. E. “The Scattering Properties and Density Distribution of Dust in a Small Interstellar Cloud.” Astronomical Journal 99 (1990): 888.
- Withbroe, G. L. “Solar Activity Cycle: History and Predictions.” Journal of Spacecraft and Rockets 26 (1989): 394.
- Wolter, A.; Gioia, I. M.; Maccacaro, T.; Morris, S.; Nesci, R.; Perola, G.; and Schild, R. “A Cooling Flow Cluster at Redshift $Z=0.2$.” In High Resolution X-Ray Spectroscopy of Cosmic Plasma, Proceedings of IAU Colloquium No. 115, eds. P.

- Gorenstein and M. Zombeck, p. 259. Cambridge: Cambridge University Press, 1990.
- Wood, J. A. "Meteorites." In The New Solar System, revised, eds. J. K. Beatty and A. Chaikin, p. 241. Cambridge, Massachusetts: Sky Publishing Company and Cambridge: Cambridge University Press, 1990.
- Worrall, D. "Population Properties of AGN in the Soft X-Ray Band." In Two Topics in X-Ray Astronomy: AGN and the X-Ray Background, Proceedings of the 23rd ESLAB Symposium, ESA SP-296, eds. J. Hunt and B. Battrick, p. 719. Noordwijk, The Netherlands: ESTEC, 1989.
- Worrall, D. M., and Murray, S. S. "PROS" (Software Reports). Bulletin of the American Astronomical Society 22 (1990): 933.
- Worrall, D. M., and Wilkes, B. J. "X-Ray Spectra of Compact Extragalactic Radio Sources." Astrophysical Journal 360 (1990): 369.
- Yee, J.-H.; Guberman, S. L.; and Dalgarno, A. "Collisional Quenching of O(¹D) by O(³P)." Planetary and Space Science 38 (1990): 647.
- Yoshino, K.; Esmond, J. R.; Cheung, A. S.-C.; Freeman, D. E.; and Parkinson, W. H. "Band Oscillator Strengths of the (2,1)-(12,1) Schumann-Runge Bands of O₂ from Absolute Absorption Cross Section Measurements at Room Temperature." Journal of Geophysical Research 95 (1990): 11743.
- You, J. H.; Ye, Z. G.; and Du, M. L. "Properties of a Substitutional and/or Interstitial Surface Hydrogen Atom." Physical Review B 41 (1990): 8180.
- Young, A. T.; Genet, R. M.; Boyd, L. J.; Lockwood, G. W.; Smith, D. P.; Epan, D. H.; Donahue, R.; Borucki, W. J.; and Baliunas, S. L. "Automated Precision Differential Photometry." International Amateur Professional Photoelectric Photometry Communications 39 (1990): 5.
- Zabludoff, A.; Huchra, J.; and Geller, M. "The Kinematics of Abell Clusters." Astrophysical Journal Supplement 74 (1990): 1.
- Zhou, S.; Wu, Y.; Evans, N. J.; Fuller, G.; and Myers, P. C. "A CS Survey of Low Mass Cores and Comparison with NH₃ Observations." Astrophysical Journal 346 (1989): 168.
- Zombeck, M. V.; Conroy, M.; Harnden, F. R.; Roy, A.; Braeuninger, H.; Burkert, W.; Hasinger, G.; and Predehl, P. "Calibration of the ROSAT High Resolution Imager (HRI)." In EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy, Proceedings of SPIE, vol. 1344, eds. H. S. Hudson and O. H. W. Siegmund, p. 50. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1990.
- Zygelman, B. "NonAbelian Geometric Phase and Long-Range Atomic Forces." Physical Review Letters 64 (1990): 256.
- Zygelman, B.; Dalgarno, A.; Kimura, M.; and Lane, N. F. "Radiative and Nonradiative Charge Transfer in He⁺ + H Collisions at Low Energy." Physical Review A 40 (1989): 2340.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

- Askins, R. A.; J. F. Lynch and R. Greenberg. (1989). Population declines in migratory birds in eastern North America. Current Ornithology 7: 1-57.
- Correll, D. L. and D. E. Weller. (1989). Factors limiting processes in freshwater wetlands: an agricultural primary stream riparian forest. pp 9-23. In: R. R. Sharitz and J. W. Gibbons (eds.), Freshwater Wetlands and Wildlife. USDOE CONF-8603101, Office of Scientific and Technical Information, Oak Ridge, TN.
- Curtis, P. S., L. M. Balduman, B. G. Drake and D. F. Whigham. (1990). Elevated atmospheric CO₂ effects on belowground processes in C₃ and C₄ estuarine marsh communities. Ecology 71: 2001-2006.
- Gallegos, C. L. (1989). Microzooplankton grazing on phytoplankton in the Rhode River, Maryland: nonlinear feeding kinetics. Marine Ecology Progress Series 57: 23-33.
- Green, K. M., J. F. Lynch, J. Sircar and L. S. Z. Greenberg. (1987). Vida Silvestre Neotropical 1: 27-38.
- Holland, M. J., D. F. Whigham, and B. Gopal. (1990). The characteristics of wetland Ecotones. pp. 171-198. In: R. J. Naiman and H. Decamps (eds.), The Ecology and Management of Aquatic-Terrestrial Ecotones. Vol. 4. Man and the Biosphere Series. The Parthenon Publishing Group, Canforth, UK.
- Jordan, T. E.; D. F. Whigham and D. L. Correll. (1989). The role of litter in nutrient cycling in a brackish tidal marsh. Ecology 70: 1906-1915.
- Jordan, T. E.; D. F. Whigham and D. L. Correll. (1990). Effects of nutrient and litter manipulations on the narrow leaved cattail, Typha angustifolia L. Aquatic Botany 36: 179-191.
- Lopez Ornat, A.; F. J. Lynch and B. MacKinnon de Montes. (1989). New and noteworthy records of birds from the eastern Yucatan Peninsula. Wilson Bulletin 101: 390-409.
- Lynch, J. F. (1987). An annotated checklist and key to the species of ants (Hymenoptera: Formicidae) of the Chesapeake Bay region. The Maryland Naturalist 31: 61-105.
- Lynch, J. F. (1989). Distribution of overwintering nearctic migrants in the Yucatan Peninsula, I: General patterns of occurrence. Condor 91:515-544.
- Lynch, J. F. (1989). Community ecology of salamanders (review). Evolution 43: 1127-1128.
- Lynch, J. F. and D. B. Wake. (1989). Two new species of Pseudoeurycea (Amphibia: Caudata) from Oaxaca, Mexico. Los Angeles County Museum Contributions to Science No. 411: 11-22.
- McLellan, C. H.; A. P. Dobson; D. S. Wilcove and J. F. Lynch. (1987). Effects of forest fragmentation on new- and old-world bird communities: Empirical observations and theoretical implications. pp. 305-313. In: J. Verner, M. L. Morrison and C. J. Ralph (eds.), Modeling habitat

- relationships of terrestrial vertebrates. University of Wisconsin Press, Madison, WI.
- Nye, Laura A. (1989). Variations in feeding behavior of blue crabs (*Callinectes sapidus* Rathbun) measured by ultrasonic telemetry. M.S. dissertation, Dept. of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh. 82 p.
- Parker, G. G.; J. P. O'Neill and D. Higman. (1989). Vertical profile and canopy organization in a mixed deciduous forest. Vegetatio 85: 1-11.
- Parker, G. G. 1990. Evaluation of dry deposition, pollutant damage, and forest health with throughfall studies. pp. 10-61 In: A. A. Lucier and S. G. Haines (eds.), Mechanisms of forest response to acidic deposition. Springer-Verlag, New York.
- Shirley, M. A., A. H. Hines, and T. G. Wolcott. 1990. Adaptive significance of habitat selection by molting adult blue crabs, *Callinectes sapidus* (Rathbun), within a subestuary of Chesapeake Bay. Journal of Marine Biology and Ecology 140: 107-119.
- Smith, L. David. (1990). The frequency and ecological consequences of limb autotomy in the blue crab, *Callinectes sapidus* Rathbun. Ph.D. Dissertation, Dept. of Zoology, University of Maryland, College Park, 259 p.
- Snow, A. A. and D. F. Whigham. (1989). Costs of flower and fruit production in *Tipularia discolor* (Orchidaceae). Ecology 70: 1286-1293.
- Wake, D. B. and J. F. Lynch. (1988). The taxonomic status of *Bolitoglossa resplendens* (Amphibia: Caudata). Herpetologia 44: 105-108.
- Weller, D. E. (1990). Will the real self-thinning rule please stand up? -- A reply to Osowa and Sugita. Ecology 71: 2004-2007.
- Whigham, D. F.; T. E. Jordan and J. Miklas. (1989). Biomass and resource allocation of *Typha angustifolia* L. (Typhaceae): the effect of within and between year variations in salinity. Bulletin Torrey Botanical Club 116: 364-370.
- Whigham, D. F.; R. L. Simpson; R. E. Good and F. A. Sickels. (1989). Decomposition and nutrient-metal dynamics of litter in freshwater tidal wetlands. pp. 167-188. In: R. R. Sharitz and J. W. Gibbons (eds.), Freshwater Wetlands and Wildlife. USDOE CONF-8603101, Office of Scientific and Technical Information, Oak Ridge, TN.
- Whigham, D. F. and S. Nusser. (1990). The response of *Distichlis spicata* and *Spartina patens* to nitrogen fertilization in hydrologically altered wetlands. pp. 31-38. In: D. F. Whigham, R. E. Good and J. Kvet (eds.), Wetland Ecology and Management: Case studies. Tasks for Vegetation Science. Dluwer Publishers, Dordrecht, The Netherlands.
- Whigham, D. F., R. E. Good and J. Kvet (eds.). (1990). Wetland ecology and management: Case studies. Tasks for Vegetation Science. Kluwer Publishers. Dordrecht, The Netherlands. 175 pp.

- Wolcott, T. G., and A. H. Hines. (1989). Ultrasonic telemetry transmitters for behavioral studies on free-ranging blue crabs (Callinectes sapidus). pp. 285-295. In: C. J. Amlaner, Jr. (ed.), Proceedings, 10th International Symposium on Biotelemetry. University of Arkansas Press, Fayetteville, AR.
- Wolcott, T. G. and A. H. Hines. (1990). Ultrasonic telemetry of small-scale movements and microhabitat selection by molting blue crabs (Callinectes sapidus). Bulletin of Marine Science 46: 83-94.

SMITHSONIAN INSTITUTION ARCHIVES

- Bain, Alan L. "An Archivist's Perspective on Natural History Archives." Association of Systematics Newsletter. 18 (3) (June, 1990):43.
- Cox, William E. "Guide to the Papers of Alexander Wetmore, c. 1848-1979, and undated." Guides to Collections in the Smithsonian Archives, no. 11. Archives and Special Collections of the Smithsonian Institution. Washington, D. C.: Smithsonian Archives, 1990.
- Henson, Pamela M. Evolution and Taxonomy: J. H. Comstock's Research School in Evolutionary Entomology at Cornell University, 1874-1930. PhD dissertation, The University of Maryland, 1990.
- Vogt-O'Connor, Diane L. "The American Album," in Images of America. Washington, D.C., Smithsonian Institution Press, 1989.
- Vogt-O'Connor, Diane L. Guide to Photographic Collections at the Smithsonian Institution. Vol. I, National Museum of American History. Washington and London: Smithsonian Institution Press, 1989.
- Vogt-O'Connor, Diane L. and Richard Pearce-Moses. "Documentation: Compiling a Photographic Thesaurus." International Journal of Museum Management and Curatorship. 8 (4) (December 1989):436-439.

SMITHSONIAN INSTITUTION LIBRARIES

- Silvio Bedini. Thomas Jefferson, Man of Science (New York: Macmillan, 1990).
- Nancy E. Gwinn. "The RTSD Preservation Microfilming Committee: Looking to the 1990s," Library Resources and Technical Services 34 (1): 88-94, 1990.
- Vija L. Karklins. Conference Report: "Federal Library and Information Center Committee Forum on Federal Information Policies: Access is the Key" in Library Hi-Tech News 71: 1-3 (May 1990).
- Kay A. Kenyon. National Zoological Park Staff Publications, 1912 - 1989 (Washington, D.C.: National Zoological Park, 1990).
- Nancy L. Matthews. Review: The Quakers and the English Legal System, 1660-1688 by Craig W. Horle. American Historical Review 94 (5): 1372 (Winter 1989).
- Rhoda S. Ratner. "Historical Research in Trade Catalogs," Science & Technology Libraries 10 (4): 15-22 (Summer 1990).
- Janet L. Stanley. "Documenting African Material Culture," pp. 118-150. In Africana Resources and Collections: Three Decades of Development and Achievement; A Festschrift in Honor of Hans Panofsky. Julian Witherlell, ed. Metuchen, N.J.: Scarecrow Press, 1989.
- _____. Review: Echoes of African Art: A Century of Art in South Africa (1987) by Manaka Matsemela. African Book Publishing Record (Oxford) 15 (3): 175, 1989.
- _____. Review: One Dry Season: In the Footsteps of Mary Kingsley (1989) by Caroline Alexander. Library Journal 114 (19): 101, November 15, 1989.
- _____. Review: Our Grandmother's Drums by Mark Hudson. Library Journal 115 (3): 193, February 15, 1990.
- _____. Review: Primitive Art in Civilized Places (1989) by Sally Price. Art Documentation 9 (1): 21-22. Spring 1990.
- _____. Review: Save the Beloved Country by Alan Paton. Library Journal 114 (17): 93, October 15, 1989.
- _____. Review: Sub-Saharan African Films and Filmmakers: An Annotated Bibliography -- films et Cinéastes Africains de la Région subsaharienne: une bibliographie commentée (1988) by Nancy Schmidt. African Studies Review 33 (1): 135-36, April 1990.
- _____. Review: Xhosa Music: Its Technique and Instruments with a Collection of Songs by David Dargie. African Book Publishing Record 15 (4): 265, 1989.
- Ellen B. Wells (and Anne Grimshaw), Introduction and annotations, The Annotated Black Beauty, London: J. A. Allen, 1989.
- _____. "Marbled endpapers in the NSL collection." National Sporting Library Newsletter, No. 29 (December 1989): [1-2].

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- Ackerman, James D. "Geographic and Seasonal Variation in Fragrance Choices and Preferences of Male Euglossine Bees." Biotropica 21(4): 340-347 (1989).
- Adams, Eldridge. "Boundary Disputes in the Territorial Ant Azteca trigona: Effects of Asymmetries in Colony Size." Animal Behaviour 39: 321-328 (1990).
- _____. "Interaction Between the Ants Zacryptocerus maculatus and Azteca trigona Interspecific Parasitization of Information." Biotropica 22(2): 200-206 (1990).
- _____. The Relationship Between Leaf Phenology and Herbivory in a Tropical Understory Community. Ph.D. dissertation, Biology Department (University of Utah 1989).
- Adams, Eldredge, and Caldwell, Roy L. "Deceptive Communication in Asymmetric Fights on the Stomatopod Crustacean Gonodavtylus bredini." Animal Behaviour 39: 706-716 (1990).
- Aide, T. Mitchell and Londoño, E. C. "The Effects of Rapid Leaf Expansion on the Growth and Survivorship of a Lepidopteran Herbivore." Oikos 55: 66-70 (1989).
- Aiello, Annette. "Garden of Eden: A Practical Guide to Landscaping for Food and Beauty, by Fred Hagy," (Book Review). Library Journal 114(6): 104 (1989).
- _____. "In Search of Lost Roses, by Thomas Christopher," (Book Review). Library Journal 114(13): 155 (1989).
- _____. "Ninety-nine Gnats, Nits and Nibblers, by May R. Berenbaum, (Book Review). Library Journal 114(7): 96 (1989).
- Ainly, D. G., Carter, H. R., Anderson, D. W., Briggs, K. T., Coulter, M. C., Cruz, J. B., Valle, C. A., Fefer, S. I., Hatch, S. A., Schreiber, E. A., Schreiber, R. W., and Smith, N. G. "Effects of the 1982-83 El Niño - Southern Oscillation on Pacific Ocean Bird Populations." In: Proceedings of the International Ornithological Congress, Ottawa, Canada 1986: 1747-1758 (1988).
- Andrews, Robin M. and Nichols, Dames D. "Temporal and Spatial Variation in Survival Rates of the Tropical Lizard Anolis limifrons." Oikos 57: 215-221 (1990).
- Andrews, Robin M. and Rand, A. Stanley. "Reproducción Estacional y Fluctuaciones Poblacionales a Largo Plazo de la Lagartija Anolis limifrons." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 469-478. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Adición: Nuevas Percepciones Derivadas de la Continuación de un Estudio a Largo Plazo de la Lagartija Anolis limifrons." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 477-480. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Andrews, R.M., Stahl, S. J. and Nicoletto, P. F. "Intra-Population Variation in Age of Sexual Maturity of the Tropical Lizard Anolis limifrons in Panama." Copeia 1989(3): 751-753 (1989).
- Angermeier, Paul L. and Schlosser, Issac J. "Species-Area Relationships for Stream Fishes." Ecology 70(5): 1450-1462, (1989).
- Augspurger, Carol K. "Una Señal para la Floración Sincrónica." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A.

- S. Rand and D. M. Windsor: 201-218. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Belk, Marc C., Black, Hal L., Jorgensen, Clive D., Hubbell, Stephen P. and Foster, Robin B. "Nest Tree Selectivity by the Tropical Ant Paraponera clavata." Biotropica 21(2): 173-177 (1989).
- Bock, Brian C. and Rand, A. Stanley. "Factors Influencing Nesting Synchrony and Hatching Success at a Green Iguana Nesting Aggregation in Panama." Copeia 1989(4): 978-986 (1989).
- Bock, Brian C., Rand, A. Stanley and Burghardt, Gordon M. "Nesting Season Movements of Female Green Iguanas (Iguana iguana) in Panama" Copeia 1989(1): 214-216 (1989).
- Booth, William. "In Rain Forest, a Tangled, Bizarre Web of Life." The Washington Post, Sunday, December 17, pages A1, A22, A23 (1989).
- _____. "Oil Slicks Common 3 Years After Spill." The Washington Post A6, Sunday, November 19 (1989).
- Brazeau, Daniel A. "Male-Biased Sex Ratio and Planulation Success in the Caribbean Gorgonian Briareum asbestinum." American Zoologist 28(4): 138A (1988).
- Brazeau, Daniel A. and Lasker, Howard R. "Inter- and Intraspecific Variation in Gorgonian Colony Morphology: Quantifying Branching Patterns in Arborescent Animals." Coral Reefs 7(3): 139-144 (1988).
- _____. "Reproductive Cycle and Larval Release of a Caribbean Gorgonian." Biological Bulletin 176(1): 1-7 (1989).
- _____. "Sexual Reproduction and External Brooding by the Caribbean Gorgonian Briareum asbestinum." Marine Biology 104(3): 465-474 (1990).
- Brokaw, Nicholas V. L. "Caída de Árboles: Frecuencia, Cronología y Consecuencias." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 163-174. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Burns, Kathryn A. and Knap, Anthony H. "The Bahia las Minas Oil Spill: Hydrocarbon Uptake by Reef Building Corals." Marine Pollution Bulletin 20(8): 391-398 (1989).
- Caine, N.G. and Weldon, Paul J. "Responses by Red-Bellied Tamarins Saguinus labiatus to Fecal Scents of Predatory and Non-Predatory Neotropical Mammals." Biotropica 21(2): 186-189 (1989).
- Castro, Gonzalo and Myers, J. P. "Validity of Predictive Equations for Total Body Fat in Sanderlings from Different NonBreeding Areas." The Condor 92: 205-209 (1990).
- Cavelier, Jaime and Goldstein, Guillermo. "Leaf Anatomy and Water Relations in Tropical Elfin Cloud Forest Tree Species." In: Structural and Functional Responses to Environmental Stresses: 243-253. Edited by K.H. Kreeb, H. Richter and T.M. Hinckley. (The Hague, The Netherlands: SPB Academic Publishing 1989).
- Cazin Jr., John, Weimer, David F. and Howard, Jerome J. "Isolation Growth Characteristics and Long-Term Storage of Fungi cultivated by Attine Ants." Applied Environmental Microbiology 55(6): 1346-1350 (1989).
- Choe, Jae C. "Worker Reproduction and Social Evolution in Ants (Hymenoptera: Formicidae)." In: Advances in Myrmecology: 163-187. Edited by J.C. Trager. (Leiden: E. J. Brill 1988).
- _____. "Maternal Care in Labidomera suturella Chevrolat (Coleoptera: Chrysomelidae: Chrysomelinae) from Costa Rica." Psyche 96(1-2): 63-67 (1989).

- _____. "Zorotypus gurneyi, New Species, from Panama and Redescription of Z. barberi Gurney (Zoraptera: Zorotypidae)." Annals of the Entomological Society of America 82(2): 149-155 (1989).
- Choe, Jae C. and Ke Chung Kim. "Microhabitat Selection and Coexistence in Feather Mites (Acari: Analgoidea) on Alaskan Seabirds." Oecologia 79: 10-14 (1989).
- Christy, John H. "Rapid Development of Megalopae of the Fiddler Crab Uca pugilator reared over sediment: implications for models of Larval Recruitment." Marine Ecology Progress Series 57: 259-265 (1989).
- Ciochon, R.L. and Piperno, Dolores R. "Diet of Gigantopithecus blacki: New Evidence from Opal Phytoliths Found Bonded to the Enamel Surfaces of its Teeth." American Journal of Physical Anthropologists 78(2): 204 (1989).
- Clifton, Kenneth E. "Territory Sharing by the Caribbean Striped Parrotfish, Scarus iserti: Patterns of Resource Abundance, Group Size and Behavior." Animal Behaviour 37(1): 90-103 (1989).
- Coffroth, Mary Alice. "The Function and Fate of Mucous Sheets Produced by Reef Coelenterates." In: Proceedings of the 6th International Coral Reef Symposium, Vol. 2: 15-20. Edited by J.H. Choat et al. (Townsville, Australia: James Cook University 1988).
- Cole, Kathleen S. "Patterns of Gonad Structure in Hermaphroditic Gobies (Teleostei: Gobiidae)." Environmental Biology of Fishes 28: 125-142 (1990).
- Cole, Kathleen S. and Shapiro, D.Y. "Gonad Structure and Hermaphroditism in the Gobiid Genus Coryphopterus (Teleostei: Gobiidae)." Copeia 1990(4): 966-973.
- Coley, Phillis D. "Tasas de Herbivorismo en Diferentes Arboles Tropicales." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 191-200. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Mucous Sheet Formation on Poritid Corals: An Evaluation of Mucous Sheets as a Nutrient Source on Reefs." Marine Biology 105: 39-49 (1989).
- Correa A., Mireya D. and Pons, Susana. "Panamá." In: Especies Vegetales Promisorias de los Países del Convenio Andrés Bello, Tomo II. Edited by Henry Yesid Bernal and Jaime Enrique Correa Q. (Bogotá: Editora Guadalupe 1989).
- Craig, Catherine L. "Alternative Foraging Modes of Orb Web Weaving Spiders." Biotropica 21(3): 257-264 (1989).
- Cubit, John D. and Burgett, J.M. "Algal Blooms after Oil Spills: Implications for Ecological Theory." (Abstract No. 87) In: Sixth International Coral Reef Symposium, August 8-12 1988: 22 (1988).
- Cubit, John D., Caffey, Hugh M., Thompson, Ricardo C. and Windsor, Donald M. "Meteorology and Hydrography of a Shoaling Reef Flat on the Caribbean Coast of Panama." Coral Reefs 8(2): 59-66 (1989).
- Cubit, John D., et al. "Effects of an Oil Spill on Mangrove, Seagrass, Reef Flat, and Coral Communities on the Caribbean Coast of Panama." In: Proceedings: Eight Annual Gulf of Mexico Information Transfer Meeting, December 1987: 109-112 (Plano, Texas, Geo Marine, Inc. 1988).
- D'Croz, Luis, Del Rosario, Juan and Holness, Ricardo. "Degradation of Red Mangrove (Rhizophora mangle L.) Leaves in the Bay of Panama." Revista de Biología Tropical 37(1): 101-104 (1989).

- Deneubourg, J. L., Goss, S., Franks, Nigel and Pasteels, J. M. "The Blind Leading the Blind: Modeling Chemically Mediated Army Ant Raid Patterns." Journal of Insect Behavior 2: 719-725 (1989).
- Dietrich, William E., Windsor, Donald M and Dunne, Thomas. "Geología, Clima e Hidrología de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 25-52. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- D'Orgeix, Christian A. Individual Recognition and Neighbor/Stranger Discrimination in the Lizard Anolis limifrons. Masters Thesis (Fullerton: California State University 1989).
- DeVries, Philip J. "I Remember Gordon." Journal of the Lepidoptera Society 43(3): 343-345 (1989).
- _____ . "Insects and Flowers, The Biology of a Partnership, by F.G. Barth," (Book Review). Journal of the New York Entomological Society 97(1): 118-120 (1989).
- _____ . "Notes on Panacea procilla (Nymphalidae) from Costa Rica." Journal of Research on the Lepidoptera 27(2): 140-141 (1989).
- _____ . "The Butterflies of Hispaniola, by A. Schwartz" (Book Review). Journal of Research on the Lepidoptera 27(3-4): 272-276 (1989).
- DeVries, Philip J. and Baker, I. "Butterfly Exploitation of an Ant-Plant Mutualism: Adding Insult to Herbivory." Journal of the New York Entomological Society 97(3): 332-340 (1989).
- DeVries, Philip J. and Dudley, Robert. "Morphometrics, Airspeed, Thermoregulation, and Lipid Reserves of Migrating Urania fulgens (Uraniidae) Moths in Natural Free Flight." Physiological Zoology 63(1): 235-251.
- Dressler, Robert L. "The Improbable Selenipedium chica." American Orchid Society Bulletin 58: 549-552 (1989).
- _____ . "Pollinia-Presentation in Dendrobium Section Pedilonum." Selbyana 11: 35-38 (1989).
- _____ . "Rostellum and Viscidium: Divergent Definitions." Lindleyana - The Scientific Journal of the American Orchid Society 1: 48-49 (1989).
- _____ . "Stanhopea avicula, a New Twin-Flowered Species from Eastern Panama." American Orchid Society Bulletin 58(9): 885-886 (1989).
- _____ . "The Vamroid Orchids: A Polyphyletic Grade?" Lindleyana - The Scientific Journal of the American Orchid Society 4(2): 89-93 (1989).
- _____ . "Will the Real Epidendrum ibaguense Please Stand Up?" American Orchid Society Bulletin 58: 796-800 (1989).
- Druffel, E. R. M., Dunbar, R. B., Wellington, Gerard M. and Minnis, S. A. "Reef-Building Corals and Identifying of ENSO Warming Episodes." In: Global Ecological Consequences of The 1982-83 El Nino-Southern Oscillation, edited by P.W. Glynn: 233-254. (Amsterdam: Elsevier, 1990).
- Dudley, Elizabeth C., and Vermeij, Geerat J. "Shell Form and Burrowing Performance in Gastropods from Pacific Panama, with Comments on Regional Differences in Functional Specialization." The Veliger 32(3):284-287 (1989).
- Dudley, Robert. "Biomechanics of Flight in Neotropical Butterflies: Morphometrics and Kinematics." Journal of Experimental Biology 150: 37-53 (1990).
- _____ . "Kinematics and Aerodynamics of Flight in Butterflies" (Abstract 375). American Zoologist 29(4): 83A (1989).

- _____. "A Neotropical Companion (Book Review)." Copeia 1990: 600-601 (1990).
- Dudley, Robert and DeVries, Philip J. "Flight Physiology of Migrating Urania fulgens (Uraniidae) Moths: Kinematics and Aerodynamics of Natural Free Flight." Journal of Comparative Physiology, A 167: 145-154 (1990).
- _____. "Flight Physiology of the Migratory Central American Moth Urania fulgens (Uraniidae)." American Zoologist 28(4): 102A (1988).
- Dudley, Robert and Ellington, C. P. "Mechanics of Forward Flight in Bumblebees. I. Kinematics and Morphology." Journal of Experimental Biology 148: 19-52 (1990).
- _____. "Mechanics of Forward Flight in Bumblebees. II. Quasi-Steady Lift and Mechanical Power Requirements." Journal of Experimental Biology 148: 19-52 (1990).
- Dudley, Robert and Milton, Katharine. "Parasite Deterrence and the Energetic Costs of Slapping in Howler Monkeys, Alouatta palliata." Journal of Mammalogy 71: 463-465 (1990).
- Eakin, Carlton Mark. "Avoidance of Damsel-like Lawns by the Sea Urchin Diadema mexicanum at Uva Island, Panama." In: Proceedings of the 6th International Coral Reef Symposium, Australia, 1988, Vol. 2: 21-26 (1988).
- Eberhard, William G. "Evolution in Bacterial Plasmids and Levels of Selection." Quarterly Review of Biology 65(1): 3-22 (1990).
- _____. "Imprecision in the Behavior of Leptomorphus Sp. (Diptera, Mycetophilidae) and the Evolutionary Origin of New Behavior Patterns." Journal of Insect Behavior 3(3): 327- (1990).
- _____. "Use of Host Aggregations as Mating Sites by Cgrysagia alticophaga (Diptera: Sarcophagidae)." Psyche 96(1-2): 45-48 (1989).
- _____. "Why do Bacterial Plasmids Carry Some Genes and Not Others?" Plasmid 21(3): 167-174 (1989).
- Emlen, Stephen T., Demong, Natalie J. and Emlen, Douglas J. "Experimental Induction of Infanticide in Female Wattled Jacanas." The Auk 106(1): 1-7 (1989).
- Engelman, Robert. "U.S. scientists Trying to Save Panama's Tropical Forests." Birmingham Post Herald Aug. 30(1989): D8 (1989).
- Feener, Donald H. and Moss, Karen A. G. "Defense Against Parasites by Hitchhikers in Leaf-Cutting Ants: A Quantitative Assessment." Behavioral Ecology and Sociobiology 26: 17-29 (1990).
- Fischer, Eric. "On Being a Good Fellow." The AAAs Observer, Supplement to Science 4(March 3): 12 (1989).
- Fleishman, Leo J. and Rand, A. Stanley. "Caiman crocodilus Does not Require Vision for Underwater Prey Capture." Journal of Herpetology 23(3): 296 (1989).
- Foster, Robin. "Ciclo Estacional de Caída de Frutos en la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 219-242. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Hambruna en la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 271-284. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Foster, Robin and Brokaw, Nicholas V. L. "Estructura e Historia de la Vegetación de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 113-128.

- Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Foster, Robin and Hubbell, Stephen P. "Estructura de la Vegetación y Composición de Especies en un Lote de Cincuenta Hectáreas de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 141-152. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Foster, Susan A. "The Implications of Divergence in Spatial Nesting Patterns in the Geminatae Caribbean and Pacific Sergeant Major Damselfishes." Animal Behaviour 37(3): 465-476 (1989).
- Fraga, Rosendo M. "Colony Size and Nest Trees of Montezuma Oropendolas in Costa Rica." Journal of Field Ornithology 60(3): 289-295 (1989).
- _____. "Interactions Between Nectarivorous Birds and the Flowers of Aphelandra siclairiana in Panama." Journal of Tropical Ecology 5(1): 19-26 (1989).
- Franks, Nigel. "Ecología y Regulación de Población de la Hormiga Guerrera Eciton burchelli." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 453-460. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. (Reply to): Silverman, Wendy, in Animal Experiments, American Scientist (July-August 1989): 317 (1989).
- _____. "Thermoregulation in Army Ant Bivouacs." Physiological Entomology 14: 397-404 (1989).
- Froehlich, Jeffery W. and Thorington Jr., Richard W. "Estructura Genética y Socio-ecología de los Monos Aulladores Alouatta palliata de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 375-392. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Full, Robert J., Caldwell, Roy L. and Shong W., Chow. "Smashing Energetics: Prey Selection and Feeding Efficiency of the Stomatopod, Gonodactylus bredini." Ethology 81(2): 134-147 (1989).
- Garwood, Nancy C. "Ciclo Estacional de Germinación de Semillas en un Bosque Semicaducifolio Tropical." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 243-258. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Giacalone-Madden, Jacalyn, Glanz, William E. and Leigh Jr., Egbert G. "Adición: Fluctuaciones Poblacionales a Largo Plazo de Sciurus granatensis en Relación con la Disponibilidad de Frutos." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 331-336. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Gilliam, M., Roubik, David W. and Lorenz, B.J. "Microorganisms Associated with Pollen, Honey, and Brood Provisions in the Nest of a Stingless Bee, Melipona fasciata." Apidologie 21: 89-97 (1990).
- Glanz, William E. "Fauna de Mamíferos Terrestres de la Isla de Barro Colorado: Censos y Cambios a Largo Plazo." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 523-538. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Glanz, William E., Thorington Jr., Richard W., Giacalone-Madden, Jacalyn and Heaney,

- Lawrence R. "Utilización Estacional de Alimentos y Tendencias Demográficas de Sciurus granatensis." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 317-330. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Glynn, Peter W. "El Niño Warming Coral Mortality and Reef Framework Destruction by Echinoid Bioerosion in the Eastern Pacific." Galaxea 7(2): 129-160 (1988).
- Glynn, Peter W. (ed.). Global Ecological Consequences of the 1982-83 El Niño-Southern Oscillation. (Amsterdam: Elsevier, 1990).
- Glynn, Peter W. and Colgan, M.W. "Defense of Corals and Enhancement of Coral Diversity by Territorial Damselfishes". Proceedings of the Sixth International Coral Reef Symposium, Townsville, Australia, Vol 2: 157-163 (1989).
- Glynn, Peter W., Cortés, Jorge, Guzmán, Héctor M. and Richmond, R.H. "El Niño (1982-1983) associated coral mortality and relationship to sea surface temperature deviations in the Tropical Eastern Pacific." Proceedings of the Sixth International Coral Reef Symposium, Australia, 1988, Vol. 3: 237-243 (1989).
- Glynn, Peter W. and D'Croze, Luis. "Experimental Evidence for High Temperature Stress as the Cause of El Niño-Coincident Coral Mortality." Coral Reefs 8: 181-191 (1990).
- Gómez Herrera, Juan Antonio and Villalaz Guerra, Janel Rogelio. "Ciclo Anual de Maduración Sexual de la Conchuela." Scientia (Panama) 3(1): 67-77 (1988).
- González, Eric E. and Harris, Leslie. "A Preliminary Study on the Polychaete Fauna on Some Beaches in Panama City, Panamá" (Abstract). In: 3rd. International Polychaete Conference, California State University, Long Beach, August 6-11, 1989 (1989).
- Gradwohl, Judy and Greenberg, Russell. "Temporada de Reproducción de Tres Pájaros Hormigueros en la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 433-442. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Green, Andrew J. "Determinants of Chorus Participation and the Effect of Size, Weight and Competition on Advertisement Calling in the Tungara Frog, Physalaemus pustulosus (Leptodactylidae)." Animal Behaviour 39: 620-638 (1990).
- Gruson, Lindsey. "A Plan to Save Iguanas, and the Rain Forests in the Bargain." The New York Times (Aug. 22, 1989): C4. (1989).
- Guzmán, Héctor, Cortés, Jorge, Glynn, Peter W. and Richmond, Richard H. "Coral Mortality Associated with Dinoflagellate Blooms in the Eastern Pacific (Costa Rica and Panama)." Marine Ecology Progress Series 60: 299-303 (1990).
- Guzmán, Héctor M. and Cortés, Jorge. "Coral Reef Community Structure at Caño Island, Pacific Costa Rica." Marine Ecology 10(1): 23-41 (1989).
- Guzmán, Héctor M. and Jiménez, Carlos E. "Pterogorgia anceps (Pallas) (Octocorallia: Gorgoniidae): Nuevo Informe para la Costa Caribeña de Costa Rica." Revista de Biología Tropical 37(2): 231-232 (1989).
- Haldane, F. R. S., J. B. S. The Causes of Evolution by J. B. S. Haldane, F. R. S., with a New Introduction and Afterword by Egbert G. Leigh, Jr. (Princeton, Princeton University Press, 1990).
- Heck, Kenneth L. and Weinstein, Michael P. "Feeding Habits of Juvenile Reef Fishes Associated with Panamanian Seagrass Meadows." Bulletin of Marine Science 45(3): 629-636 (1989).

- Herre, Edward Allen. "Coevolution of Reproductive Characteristics in 12 Species of New World Figs and their Pollinator Wasps." Experientia 45: 637-647 (1989).
- _____. Sex Ratio Adjustment in Thirteen Species of Panamanian Fig Wasps. Ph.D. dissertation, University of Iowa (1988).
- Higgins, Linden Elizabeth. Variation in Web Structure in the Orb-Weaving Spider Nephila clapides and correlated Changes in Life History. Ph.D. dissertation, University of Texas at Austin (1988).
- Howard, Jerome J. "Infidelity of Leafcutting Ants to Host Plants: Resource Heterogeneity or Defense Induction?" Oecologia 82: 394-401 (1990).
- Howe, Henry F. "Producción de Frutos y Actividad Animal en dos Arboles Tropicales." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 259-270. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Survival and Growth of Juvenile Virola surinamensis in Panama. Effects of Herbivory and Canopy closure." Journal of Tropical Ecology 6: 259-280 (August 1990).
- Howe, Henry F. and Westley, L.C. Ecological Relationships of Plants and Animals. New York: Oxford University Press (1988).
- Ibáñez, Roberto. "Geographic Distribution: Centrolenella pulverata." SSAR Herpetological Review 193(3): 59 (1988).
- Jackson, Jeremy B. C. and Cheetham, Alan H. "Evolutionary Significance of Morphospecies: A Test with Cheilostome Bryozoa." Science 248: 579-582 (4 May 1990).
- Jaramillo, César F., Jaramillo, Fidel and Ibáñez, Roberto. "Geographic Distribution: Centrolenella colymbiphvllum." SSAR Herpetological Review 19(3): 59 (1988).
- Jaramillo, Fidel, Jaramillo, César F. and Ibáñez, Roberto. "Geographic Distribution: Centrolenella vireovittata." SSAR Herpetological Review 19(3): 59 (1988).
- Johnson, Mark J. Chemical Weathering Controls on the Composition of Modern Fluvial Sands in Tropical Weathering Environments. Ph.D. dissertation, Department of Geological and Geophysical Sciences, Princeton University (1989).
- Johnson, Mark J. and Stallard, Robert F. "Physiographic Controls on the Composition of Sediments Derived from Volcanic and Sedimentary Terrains on Barro Colorado Island, Panama." Journal of Sedimentary Petrology 59(5): 768-781 (1989).
- Joly, L. G., Guerra, S., Séptimo, R., Solís, P. N., Correa A., Mireya D., Gupta, M. P., Levy, S., Sandberg, F. and Perera, P. "Ethnobotanical Inventory of Medicinal Plants Used by the Guaymi Indians in Western Panama, Part II." Journal of Ethnopharmacology 28: 191-206 (1990).
- Karr, James R. and Brawn, Jeffrey D. "Food Resources of Understory Birds in Central Panama: Quantifications and Effects on Avian Populations." Studies in Avian Biology 13: 58-64 (1990).
- Karr, James R., Schemske, Douglas W. and Brokaw, Nicholas V. L. "Variaciones Temporales de la Comunidad de Aves del Sotobosque de un Bosque Tropical." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 509-522. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Keller, Sue and Scott, Armbruster. "Pollination of Hyptis capitata by Eumenid Wasps in Panama." Biotropica 21(2): 190-192 (1989).
- Kilar, John A. and McLachlan, J. "Effects of Wave Exposure on the Community Structure of a

- Plant-Dominated, Fringing-Reef Platform: Intermediate Disturbance-Mediated Competition." Marine Ecology Progress Series 54(3): 265-276 (1989).
- King, V. A. and Dudley, Robert. "The Implications of Shape and Metamorphosis for Drag Forces on Anuran Larvae." (Abstract 120). Annals Soc. Roy. Zool. Belg. 119 (Suppl.1) (1989).
- Kite, G. C., Horn, J. M., Romeo, J. T., Fellows, L. E., Lees, D. C., Scotfield, A. M. and Smith, Neal G. " α -Homonokirimycin and 2,5-Dihydroxymethyl-3,4-Dihydroxy-Pyrrolidine: Alkaloidal Glycosidase Inhibitors in the Moth Urania fulgens." Phytochemistry 29(1): 103-105 (1990).
- Knowlton, Nancy, Lang, J. C. and Keller, Brian D. "Fates of Staghorn Coral Isolates on Hurricane-Damaged Reefs in Jamaica: the Role of Predators." In: Proceedings of the 6th International Coral Reef Symposium, Australia, 1988, Vol. 2: 83-88 (1989).
- La Estrella de Panamá. "Estudio Científico: Confirmada Asombrosa Diversidad Biológica de Bosques Tropicales." La Estrella de Panamá (March 26, 1989).
- Lasker, Howard and Coffroth, Mary Alice. "Temporal and Spatial Variability among Grazers: Variability in the Distribution of the Gastropod Cyphoma gibbosum on Octocorals." Marine Ecology (Progress Series) 43: 285-295 (1988).
- Lasker, Howard, Coffroth, Mary Alice and Fitzgerald, L. "Foraging Patterns of Cyphoma gibbosum on Octocorals: The Roles of Host and Prey Preferences." Biological Bulletin 174: 254-266 (1988).
- Lee, David W., Bone, Richard A., Tarsis, Sara L. and Storch, David. "Correlates of Leaf Optical Properties in Tropical Forest Sun and Extreme-Shade Plants." American Journal of Botany 77 (3): 370-380 (1990).
- Leigh Jr., Egbert Giles. "Community Diversity and Environmental Stability: A Re-Examination." Tree 5(10): 340-344 (October 1990).
- _____. "Importance de la Faune et de la Flore de Madagascar pour la Théorie de l'Evolution." In: L'Equilibre des Ecosystèmes Forestières à Madagascar. Actes d'un Séminaire International: 155-179. Edited by L. Rakotovoao, V. Barre and J. Sayers. Gland, Suisse: Union Internationale pour la Conservation de la Nature et de ses Ressources (1988).
- _____. "Introducción." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 15-22. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Introducción: La Importancia de las Fluctuaciones Poblacionales." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 503-508. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Introducción: La Selección Natural y los Ciclos del Bosque." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 175-178. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Introducción: ¿Por Qué Hay Tantos Tipos de Arboles Tropicales?" In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 75-99. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).

- _____. "Rain Forest from Inside" (Book Review) of The Tropical Rain Forest, by M. Jacobs. Science 246(4931): 828-829 (1989).
- _____. "The Evolution of Individuality, by Leo W. Buss" (Book Review). The Condor 91(1): 223-225 (1989).
- Leigh, Jr., Egbert G. and Windsor, Donald M. "Producción del Bosque y Regulación de Consumidores Primarios de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 179-190. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Leigh, Jr., Egbert G., Windsor, Donald M., Rand, A. Stanley and Foster, Robin B. "The Impact of the "El Niño" Drought of 1982-83 on a Panamanian Semideciduous Forest." In: Global Ecological Consequences of The 1982-83 El Niño-Southern Oscillation, edited by P.W. Glynn: 473-486. (Amsterdam: Elsevier, 1990).
- Lessios, Harilaos A. "Adaptation and Phylogeny as Determinants of Egg Size in Echinoderms from the Two Sides of the Isthmus of Panama." American Naturalist 135(1): 1-13 (1990).
- _____. "Fate of Diadema antillarum Populations in the Four Years Following Mass Mortality." In: Echinoderm Biology: Sixth International Echinoderm Conference, Victoria, British Columbia, Canada, August 23-28: 802 (1988).
- Levings, Sally C. and Windsor, Donald M. "Fluctuaciones de las Poblaciones de Artrópodos de Hojarasca." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 443-452. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Lewin, Ralph A. and Cheng, Lanna. "Some Lipogenic, Eukaryotic, Picoplankton Algae from the Caribbean Region." Phycologia 28(1): 96-108 (1989).
- Lewis, Angelo John. "At Home on Barro Colorado." Princeton Alumni Weekly October 11: 29-32 (1989).
- Linares, Olga F. "Kuseek and Kuriimen: Wives and Kinswomen in Jola Society." Canadian Journal of African Studies 22(3): 472-490 (1988).
- _____. "The Marketing of Foodstuffs in the Gambia, 1400-1980: a Geographical Analysis, by Hazel Barrett" (Book Review). Man 24(2): 353 (1989).
- _____. "Strategies and Norms in a Changing Matrilineal Society: Descent, Succession and Inheritance Among the Toka of Zambia, by Ladislav Holy" (Book Review). African Studies Review 31(2): 160-162 (1988).
- McGuiness, K.A. "Effects of Some Natural and Artificial Substrata on Sessile Marine Organisms at Galeta Reef, Panama." Marine Ecology - Progress Series 52(2): 201-208 (1989).
- Manokaran, N., LaFrankie, J. V., Kochummen, K. M., Quah, E. S., Klahn, J. E., Ashton, P. S. and Hubbell, S. P. "Methodology for the Fifty Hectare Research Plot at Pasoh Forest Reserve." Research Pamphlet, Malaysia Forest Institute, No. 104 (1990).
- Milton, Katharine. "Calidad Dietética y Regulación Demográfica de una Población de Monos Aulladores por Allouatta palliata." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 357-374. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Mora, Giselle. "Paternal Care in a Neotropical Harvestman, Zygopachylus albomarginis

- (Arachnida, Opiliones: Gonyleptidae)." Animal Behavior 39: 582-593 (1990).
- Morse, Daniel E. "Recent Progress in Larval Settlement and Metamorphosis: Closing the Gaps Between Molecular Biology and Ecology." Bulletin of Marine Science 46(2): 465-483 (1990).
- Moynihan, Martin H. "Social, Sexual and Pseudosexual Behavior of the Blue-Bellied Roller, Coracias cyanogaster: The Consequences of Crowding or Concentration." Smithsonian Contributions to Zoology 491: 1-23 (1990).
- Norris, James N. and Bucher, Katina E. "Rhodogorgon, an Anomalous New Red Algal Genus from the Caribbean Sea." Proceedings of the Biological Society of Washington 102(4): 1050-1066 (1989).
- Oppenheimer, John R. "Cebus capucinus: Ambito Doméstico, Dinámica de Población y Relaciones Interespecíficas." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 337-356. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Paez, Vivian P. and Bock, Brian C. "Crocodilia." Herpetological Review 19(4): 83 (1988).
- Palacios Sánchez, Graciela. Clasificación y Distribución de las Algas Clorofitas (Chlorophyta) Macroscópicas del Archipiélago de las Mulatas, San Blas (Kuna Yala). Tesis, Departamento de Botánica, Escuela de Biología, Facultad de Ciencias Naturales y Exactas. (Panamá: Universidad de Panamá 1989).
- Parra, Guiomar Nates and Roubik, David W. "Sympatry Among Subspecies of Melipona favosa in Colombia and a Taxonomic Revision." Journal of the Kansas Entomological Society 63(1): 200-203 (1990).
- Petersen, Raymond L., Brack-Hanes, Sheila D. and Greco, Anthony M. "Salt Tolerance in Ferns." Proceedings of the International Symposium on Present and Future Perspectives in Pteridology, August 8-10 University of Rajasthan, Jaipur, India: 135-136 (1989).
- Piperno, Dolores. "Fitolitos, Arqueología y Cambios Prehistóricos de la Vegetación en un Lote de Cincuenta Hectáreas de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 153-156. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Piperno, Dolores R., Bush, Mark B. and Colinvaux, Paul A. "Paleoenvironments and Human Occupation in Late-Glacial Panama." Quarterly Research 33(1): 1990.
- Puga, R.C. and Bethancourt, R. "Early Growth of Acacia mangium Willd. On an Ultisol of Panama." Nitrogen Fixing Tree Association Reports 8: 111-112 (1990).
- Putz, Francis E. and Milton, Katharine. "Tasas de Mortalidad de los Arboles en la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 157-162. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Quintero A., Diomedes and Rodríguez, R. R. "New Species of Typhoctes from Panama (Hymenoptera: Typhoctidae)." Annals of the Entomological Society of America 83(1): 30-35 (1990).
- Rand, A. Stanley, Dugan, Beverly A., Monteza, Hebe and Vianda Daliza. "The Diet of Generalized Folivore: Iguana iguana in Panama." Journal of Herpetology 24(2): 211-214 (1990).
- Richardson, Richard H. "The Effects of The El Niño/Southern Oscillation on the Dispersal of Corals and other Marine Organisms." In: Global Ecological Consequences of The 1982-

- 83 El Nino-Southern Oscillation, edited by P.W. Glynn: 127-140. (Amsterdam: Elsevier, 1990).
- Robinson, Michael H. "Phenomena, Comment and Notes." Smithsonian 20(12): 24-30 (1990).
- Roubik, David W. "A Mixed Colony of Eulaema (Hymenoptera: Apidae), Natural Enemies, and Limits to Sociality." Journal of the Kansas Entomological Society 63(1): 150-157 (1990).
- _____. "Mate Location and Mate Competition in Males of Stingless Bees (Hymenoptera: Apidae: Meliponinae)." Entomol. Gener. 15(2): 115-120 (1990).
- _____. "Niche Preemption in Tropical Bee Communities: A Comparison of Neotropical and Malesian Faunas." In: Natural History of Social Wasps and Bees in Equatorial Sumatra, edited by Sakagami, Shoichi F., Ohgushi, Ryoh-ichi and Roubik, David W.: 245-258. (Sapporo: Hokkaido University Press 1990).
- Roubik, David W. and Boreham, Melvin M. "Learning to Live with Africanized Honeybees." Interciencia 15(3): 146-153 (1990).
- Rubinoff, Ira and Leigh, Jr., Egbert G. "Dealing with Diversity: The Smithsonian Tropical Research Institute and Tropical Biology." Trends in Ecology and Evolution 5(4): 115-118.
- Ruppell, G. and Fincke, Ola M. "Mecistogaster omatus (Pseudostigmatidae) Flugverhalten und Nahrungserwerb." (Published in German and English). Publ. Wiss. Film, Sect. Biol., Ser 20, Nr. 7/E 2975: 3-15 (1989).
- _____. "Megaloprepus coeruleus (Pseudostigmatidae) Flug- und Fortpflanzungsverhalten, Flying and Reproduction Behaviour." Publ. Wiss. Film, Sect. Biol., Ser 20, Nr. 10/E 2976: 3-20 (1989).
- Russell, James K. "Influencia de las Fluctuaciones Alimentarias Sobre la Epoca de Reproducción de los Coatis (Nasua narica)." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 481-502. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Ryan, Michael J., Fox, James H., Wilczynski and Rand, A. Stanley. "Sexual Selection for Sensory Exploitation in the Frog Physalaemus pustulosus." Nature 343(6253): 66-67 (January, 1990).
- Ryan, Michael J. and Rand, A. Stanley. "The Sensory Basis of Sexual Selection for Complex Calls in the Túngara Frog, Physalaemus pustulosus (Sexual Selection for Sensory Exploitation)." Evolution 44(2): 305-314 (1990).
- Sakagami, Shoichi F., Ohgushi, Ryoh-ichi and Roubik, David W. (editors). Natural History of Social Wasps and Bees in Equatorial Sumatra. (Sapporo: Hokkaido University Press 1990).
- Salazar Allen, Noris. "Echoes of First Latin American Bryological Symposium." Taxon 38(3): 406-413 (1989).
- _____. "A Guide to Fieldstations in the Tropics II. Panama." Tropical Bryology 1: 5-8 (1989).
- _____. "A Preliminary Report of Rhizoidal Heads in Leucobryum martianum." The Bryologist 92(4): 493-494 (1989).
- Salazar Allen, Noris, Arrocha, Clotilde and Chung, Clementina. "A Report on the Bryophyte Flora of Barro Colorado Island, Panama." (Abstract 21). American Journal of Botany 75(6): 8 (1988).
- Schultz, William. "Growth of STRI Contributes to Quality of Research in Panama." Research

- Reports 61: 2, 6 (Summer 1990).
- _____. "Researchers Study Long-Term Effects of 1986 Oil Spill." Research Reports 56(Winter): 2 (1989).
- Schupp, Eugene W. "Annual Variation in Seedfall Postdispersal Predation and Recruitment of a Neotropical Tree." Ecology 71(2): 504-515 (1990).
- Schupp, Eugene W. and Feener, Jr., Donald H. "Phylogeny, Lifeform and Habitat Dependence of Ant-Defended Plants in a Panamanian Forest." In: Ant-Plant Interactions, edited by Camilla Huxley and David K. Cutler. (Oxford, Oxford University Press, 1990).
- Schuup, Eugene W. and Frost, E.J. "Differential Predation of Welfia georgii Seeds in Treefall Gaps and the Forest Understory." Biotropica 21(3): 200-203 (1989).
- Scoble, Malcolm J. and Aiello, Annette. "Moth-like Butterflies (Hedylidae: Lepidoptera): A Summary, with Comments on the Egg." Journal of Natural History 24: 159-164 (1990).
- Sieving, Kathryn E. "Pheasant Cuckoo Foraging Behavior, with Notes on Habits and Possible Social Organization in Panama." Journal of Field Ornithology 61(1): 41-46 (1990).
- Sikkel, Paul C. "Social Organization and Spawning in the Atlantic Sharpnose Puffer, Canthigaster rostrata (Tetraodontidae)." Environmental Biology of Fishes 27: 243-254 (1990).
- Smith, Neal G. "El Por Qué de la Migración del Lepidóptero Diurno Urania fulgens (Uraniidae: Geometroidea)." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 415-432. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "The gulf of Panama and El Niño Events: The Fate of Two Regulee Boobies from the 1982-83 Event." In: Global Ecological Consequences of The 1982-83 El Niño-Southern Oscillation, edited by P.W. Glynn: 381-394. (Amsterdam: Elsevier, 1990).
- _____. "Soaring Raptor Migration Through the Isthmus of Panama." In: Birds of Prey (Weldon Owen Ltd. 1990).
- Smythe, Nicholas. "Abundancia Estacional de Insectos Nocturnos en un Bosque Neotropical." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 393-402. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Smythe, Nicholas. Glanz, William E. and Leigh, Jr., Egbert G. "Regulación de la Población de Algunos Frugívoros Terrestres." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 305-316. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Southwick, E. E., Roubik, David W. and Williams, J. M. "Comparative Energy Balance in Groups of Africanized and European Honey Bees: Ecological Implications." Comparative Biochemistry and Physiology 97A(1): 1-7 (1990).
- Sperry, John S., Tyree, Melvin T. and Donnelly, John R. "Vulnerability of Xylem to Embolism in a Mangrove vs. an Inland Species of Rhizophoraceae." Physiol. Plants 74: 276-283 (1988).
- Sternberg, L. S. L., Mulkey, S. S. and Wright, S. Joseph. "Oxygen Isotope Ratio Stratification in a Tropical Moist Forest." Oecologia 81: 51-56 (1989).
- Summers, Kyle. "Sexual Selection and Intra-Female Competition in the Green Poison-Dart Frog, Dendrobates auratus." Animal Behaviour 37(5): 797-805 (1989).
- Tebbs, Margaret. "Grow Your Own Tropical Wet Forest from Seed." New Scientist 124(1685): 52 (1989).

- Tem Pinzón, Marcos A. Análisis de Miel de Abeja Colectada en Cinco Zonas de Vida en la Provincia de Chiriquí. Tesis, Escuela de Biología - Zoología, Facultad de Ciencias Naturales y Exactas. (Panamá: Universidad de Panamá 1989).
- Thorington, Jr., Richard W/ Tammembraum, Bernice, Tarak, A. and Rudran, R. "Distribución de los Arboles en la Isla de Barro Colorado: Una Muestra de Cinco Hectáreas." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 129-140. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Thorne, Barbara L. and Levings, Sally C. "A New Species of Nasutitermes (Isoptera: Termitidae) from Panama." Journal of the Kansas Entomological Society 62(3): 342-347 (1989).
- Toft, Catherine A., Rand, A Stanley and Clark, Milton. "Dinámica de Población y Reclutamiento Estacional de Bufo typhonius y Colostethus nubicola (Anura)." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 461-468. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Trainer, Jill M. "Cultural Evolution in Song Dialects of Yellow-Rumped Caciques in Panama." Ethology 80: 190-204 (1989).
- Tyree, Melvin T. and Sperry, John S. "Do Woody Plants Operate Near the Point of Catastrophic Xylem Disfunction Caused by Dynamic Water Stress? Answers from a Mode." Plant Physiology 88: 574-580 (1988).
- _____. "Vulnerability of Xylem to Cavitation and Embolism." Annual Review of Plant Physiology and Molecular Biology 40: 19-38 (1989).
- Vietmeyer, Noel. "Iguana Mama." International Wildlife 19(5): 25-27 (1989).
- _____. "Mamá Iguana" de Centroamérica." Selecciones Octubre: 161-170 (1990).
- Villalaz Guerra, Janzel Rogelio and Gómez Herrera, Juan Antonio. "Estudio Experimental de la Gametogénesis de la Conchuela Tropical Argopecten circularis en el Golfo de Panamá." Scientia (Panamá) 4(1): 7-23 (1989).
- Vreeland, H.V. and Lasker, Howard. "Feeding by the Polychete Hermodice carunculata on Gorgonian Corals." Journal of Experimental Marine Biology and Ecology 129: 265-277 (1989).
- Ward, J. Evan. "Studies on the Feeding Behavior and Host Specificity of a Tropical Ectoparasitic Snail in the genus Odostomia (Pyramidellidae)." The Veliger 32(4): 387-393 (1989).
- Wcislo, W.T. and Eberhard, William G. "Club Fights in the Weevil Macromerus bicinctus (Coleoptera: Curculionidae)." Journal of the Kansas Entomological Society 62(4): 421-429 (1989).
- Wellington, Gerald M. and Víctor, B.C. "Planktonic Larval Duration of One Hundred Species of Pacific and Atlantic Damselfishes (Pomacentridae)." Marine Biology 101: 557-567 (1989).
- Wells, Kentwood D. and Taigen, Theodore L. "Calling Energetics of a Neotropical Treefrog, Hyla microcephala." Behavioral Ecology and Sociobiology 25: 13-22 (1989).
- Whiting, John H., Black, Hal L. and Jorgensen, Clive D. "A Scanning Electron Microscopy Study of the Mouthparts of Paraponera clavata (Hymenoptera: Formicidae)." Pan-Pacific Entomologist 65(3): 302-309 (1989).
- Wilczynski, Walter, Ryan, Michael J. and Brenowitz, Eliot A. "The Display of the Blue-black

- Grassquit: The Acoustic Advantage of Getting High." Ethology 80: 218-222 (1989).
- Williams-Linera, Guadalupe. Development of Tropical Forest Edge Vegetation. Ph.D. dissertation, University of Florida (1989).
- Windsor, Donald M., Rand, A. Stanley and Rand, William M. "Características de la Precipitación de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 53-74. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Wolda, Henk. "Comment on the Article "On Testing Temporal Niche Differentiation in Carabid Beetles" by M. Loreau and the "Comment on the Article of M. Loreau" by P.J. den Boer." Oecologia 81: 99 (1989).
- _____. "The Equilibrium Concept and Density Dependence Tests. What Does it all Mean?" Oecologia 81: 430-432 (1989).
- _____. "Estacionalidad de los Homoptera de la Isla de Barro Colorado." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 403-414. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- _____. "Food Availability for an Insectivore and How to Measure it." Studies in Avian Biology 13: 38-43 (1990).
- _____. "Seasonal Cues in Tropical Organisms. Rainfall? Not Necessarily!" Oecologia 80: 437-442 (1989).
- Worthington, Andrea H. "Comportamiento de Forrajeo de Dos Especies de Saltarines en Repuesta a la Escasez Estacional de Frutos." In: Ecología de un Bosque Tropical: Ciclos Estacionales y Cambios a Largo Plazo, edited by E. G. Leigh, Jr., A. S. Rand and D. M. Windsor: 285-304. Smithsonian Tropical Research Institute (Balboa, República de Panamá, 1990).
- Wright, S. Joseph and Cornejo, F. H. "Seasonal Drought and Leaf Fall in a Tropical Forest." Ecology 71: 1165-1175 (1990).
- Wujek, Daniel E. and Lincoln, Thomas A. "Ultrastructure and Taxonomy of Oscillatoria pilicola, a New Species of Bluegreen Alga from Sloth Hair." Brenesia 29: 1-6 (1988).
- Zeh, David W. "Beyond the Sting" (Book Review of The Biology of Scorpions edited by G.A. Polis). Science 249: 1176-1177 (1990).
- Zimmerman, Jess K. "Role of Pseudobulbs in Growth and Flowering of Catasetum viridiflavum (Orchidaceae)." American Journal of Botany 77(4): 533-542 (1990).
- Zimmerman, Jess K. and Ehleringer, James R. "Carbon Isotope Ratios are Correlated with Irradiance Levels in the Panamanian Orchid Catasetum viridiflavum." Oecologia 83: 247-249 (1990).
- Zimmerman, Jess K. and Aide, T. Mitchell. "Patterns of Fruit Production in a Neotropical Orchid: Pollinator vs. Resource Limitation." American Journal of Botany 76(1): 67-73 (1989).
- Zimmerman, Jess K. and Madriñán R., Santiago. "Age Structure of Male Euglossa imperialis (Hymenoptera: Apidae: Euglossini) at Nectar and Chemical Sources in Panama." Journal of Tropical Ecology 4: 303-306 (1988).

ANACOSTIA MUSEUM

James, Portia. African American Invention and Innovation, 1619 1930 Smithsonian Institution Press, 1990.

ARCHIVES OF AMERICAN ART

Brown, Robert F. "Twenty Years Here" in Images & Objects/Art & Design of the 20th Century (New York: Sanford L. Smith & Associates, 1990), pp. 8-11.

Karlstrom, Paul J. "The Artist and the Public Eye." USArt (No.2), San Francisco: Archives of American Art, 1990.

Karlstrom, Paul J. and Susan Ehrlich. Turning the Tide: Early Los Angeles Modernists 1920-1956 (Santa Barbara: Santa Barbara Museum of Art, 1990).

Karlstrom, Paul J. and Edward Lucie-Smith. Fletcher Benton (New York: Harry N. Abrams, 1990).

Karlstrom, Paul J. "Observations on the Concept of Regionalism" in Barbara Johns, Modern Art from the Pacific Northwest (Seattle: Seattle Art Museum, 1990).

ARTHUR M. SACKLER GALLERY and FREER GALLERY OF ART

Atil, Esin. "The Ottoman Empire and the Mediterranean from Illustrated 16th-Century Turkish Histories" in G. Dotoli, ed., Proceedings of the Third General Assembly of the Community of Mediterranean Universities, Malta, 1989, pp. 67-83.

Bruschke-Johnson, Lee. "Japanese Cloisonne in the Walters Art Gallery," The Journal of the Walters Gallery, vol. 47, 1989, 3-12.

Chase, W. Thomas, III. Review of John Curtis, ed., Bronze-working Centres of Western Asia c.1000-539 B.C. Antiquity, Vol. 64, No. 242, March, 1990, 172-3.

Cort, Louise. "Japanese Ceramics and Cuisine," Asian Art, III (Winter 1990), 9-35.

_____. "Shigaraki Tea Jars," "Shinjiro," "Official Tea Jars," and "Shingen Jars," in Kadakawa Chado Daijiten [Kadaokawa Encyclopedia of the Tea Ceremony], Tokyo: Kadokawa Shoten, 1990.

Fu, Shen C.Y. "Phases in the Development of Dong Qichang's (1555-1636) Calligraphy and Its Influence in the History of Calligraphy," Duo Yun (Art Clouds: Quarterly of Chinese Painting Study), Shanghai, 23 (1989.4), 119-121.

_____. "Chang Dai-chien's 'Three Worthies of Wu-chung' and His Practice of Forging Ancient Art," Orientalism, Hong Kong (September, 1989).

_____. "Huang T'ing-chien's (1045-1105) Cursive Script and His Influence," in Words and Images: Relationships between Chinese Poetry, Calligraphy and Painting (Proceedings of the Symposium on Chinese Poetry, Calligraphy and Painting held at the Metropolitan Museum of Art, 1985) New York, 1990.

- Gunter, Ann C., ed., Investigating Artistic Environments in the Ancient Near East, Arthur M. Sackler Gallery, Smithsonian Institution, with distribution by University of Wisconsin Press, 1990.
- _____. Gordian Excavations Final Reports III: The Bronze Age. Philadelphia: The University of Pennsylvania Museum, 1990.
- _____. "Sculptural Dedications from Labraunda," in Architecture and Society in Hecatomnid Caria, Uppsala Studies in Ancient Mediterranean and Near Eastern Civilizations, Uppsala, 1989.
- _____. "Artists and Ancient Near Eastern Art," in Investigating Artistic Environments in the Ancient Near East, Arthur M. Sackler Gallery; distributed by University of Wisconsin Press, 1990.
- _____. "Models of the Orient in the Art History of the Orientalizing Period," in Achaemenid History V: The Roots of the European Tradition, ed. by Heleen Sancisi-Weerdenburg and Jan-Willem Drijvers, Leiden, 1990.
- Jett, Paul. "Gilding on Chinese Buddhist Bronzes," in Symposium Papers: Surface Treatment and Gilding of Metals B.A.R. Publications, 1990
- _____. and A. Yenner, "The Metallographic Examination of Silver Objects from the Ancient Near East," Journal of Metals, 1990.
- Kecskes, Lily. "Jin nian lai kao gu fa xian de gu dai shu xie gong ju" [Recent discoveries of ancient writing instruments], in Qian Cunxun xiansheng bashi shengri zhushou lunwenji [Collected essays in commemoration of Prof. Qian Cunxun's 80th birthday]. Taipei: Zhengzhong shuju, and Beijing: Xiandai chubanshe, 1990.
- Koob, Stephen. "Recovery and Treatment of Skeletal Remains at Herculaneum," Retrieval: On-Site Conservation Case Studies, edited by Robert Payton, Summer Schools Press, Institute of Archaeology, London. 1990
- _____. "The Use of Acryloid B-72 in the Treatment of Archaeological Ceramics: Minimal Intervention," in Materials Issues in Art and Archaeology, 1990.
- Merrill, Linda L. An Ideal Country: Paintings by Dwight William Tryon in the Freer Gallery of Art. Washington, D.C.: Arthur M. Sackler Gallery and University Press of New England, November, 1990.
- Stuart, Jan. "Ming Dynasty Gardens Reconstructed in Words and Images," Journal of Garden History X, no. 3 (1990).
- _____. Review of Ji Cheng, The Craft of Gardens (Yuanye) translated by Alison Hardie, Journal of the Society of Architectural Historians, June 1990.
- _____. Translation of Shen Fu, "Chang Dai-chien's The Three Worthies of Wu and His Practice of Forging Ancient Art," Orientalism XX, no. 9, September 1989, 56-72.
- Winter, John. "Identification of Some Early Korean Pigments," Misul Charvo (National Museum of Korea, Seoul), 1989, no. 43, 1-36.
- Yonemura, Ann. Yokohama: Prints from Nineteenth-Century Japan. Washington, DC: Arthur M. Sackler Gallery and Smithsonian Institution Press, 1990.
- _____. Yokohama: Prints from Nineteenth-Century Japan. (gallery guide), Arthur M. Sackler Gallery, 1990.
- _____. "Prints of Early Yokohama: Windows on the Modern World," Japan Society Newsletter, Japan Society, New York, May, 1990.

CONSERVATION ANALYTICAL LABORATORY

- Alexander, Ingrid, and Jacqueline S. Olin. "Examining Albert Pinkham Ryder's Preparatory Sketch and Compositional Changes with Neutron Induced Autoradiography," Preprints, ICOM Committee for Conservation, 9th Triennial Meeting, 3-9 (Dresden, August 26-31, 1990).
- Baker, Mary T., Helen D. Burgess, Nancy E. Binnie, Michele R. Derrick, and James R. Druzik. "Laboratory Investigation of the Fumigant Vikane," Preprints, ICOM Committee for Conservation, 9th Triennial Meeting, 804-811 (Dresden, August 26-31, 1990).
- Ballard, M., and N. S. Baer. "Conservation Notes: Halogenated Hydrocarbon Drycleaning Solvents," International Journal of Museum Management and Curatorship 8 (3): 336-344 (1989).
- _____, R. J. Koestler, C. Blair, C. Santamaria, and N. Indictor. "Study of Some Historic Silk Flags from Harrisburg," Historic Paper and Textiles: Conservation and Characterization II, 134-142 (American Chemical Society, 1989).
- _____, R. J. Koestler, and N. Indictor. "Recent Results Concerning the Degradation of Historic Silk Flags," Preprints, ICOM Committee for Conservation, 9th Triennial Meeting, 277-282 (Dresden, August 26-31, 1990).
- Beaudry, M. P., R. L. Bishop, J. S. Henderson, and K. L. Hirth. "Determining Ceramic Production: A View from Honduras," BAR International Series 513: 97-115 (1989).
- Bishop, R. L. "Análisis de Elementos de Vestigios de un Tiesto Policromo Estilo Maya del Periodo Clasico," in Informe Final de la Temporada de Campi de 1988 El Sitio de Sin Cabezas, Escuintla, Guatemala, 97-98, , M. P. Beaudry-Corbett, (mimeograph) (Instituto de Antropología e Historia, Guatemala, 1990).
- _____, V. Canouts, P. L. Crown, and S. P. De Atley. "Sensitivity, Precision, and Accuracy: Their Roles in Ceramic Compositional Data Bases," American Antiquity 55: 537-546 (1990).
- Blackman, M. J. "Archaeology and Nuclear Chemistry," in Topics in Nuclear and Radiochemistry for College Curricula and High School Science Programs, Symposium Volume for 11th Biennial Conference on Chemical Education, 85-92 (Atlanta, 1990).
- D'Altroy, T. N., and R. L. Bishop. "Provincial Organization of Inka Ceramic Production," American Antiquity 55: 120-137 (1990).
- Derrick, Michele R., Helen D. Burgess, Mary T. Baker, and Nancy E. Binnie. "Sulfuryl Fluoride (Vikane): A Review of Its Use as a Fumigant," Journal of the American Institute for Conservation 29 (1): 77-90 (1990).
- Erhardt, David, and Jia-sun Tsang. "The Extractable Components of Oil Paint Films," in Cleaning, Retouching and Coatings, Preprints of the Brussels Conference, International Institute for Conservation, 93-97 (London, 1990).

- Goodway, Martha. "Etruscan Mirrors: A Reinterpretation," MASCA Research Papers in Science and Archaeology 6: 25-30 (1989).
- _____. "News of Archaeometallurgy," Society for Archaeological Sciences Bulletin 12 (4): 4-5 (October-December 1989).
- _____. "News of Archaeometallurgy," Society for Archaeological Sciences Bulletin 13 (2): 8-9 (July-September 1989).
- _____. "News from Washington," Historical Metallurgy 23: 125-126 (1989).
- _____. "News and Notes," Historical Metallurgy 24: 8-9 (1990).
- _____, and Pamela Vandiver. "Metal and Frit Processing: Analysis of Ceramic Crucible Residues," Appendix II in The Byzantine Shops at Sardis, Archaeological Exploration of Sardis, Monograph 9, 127-134, , J. Stephens Crawford (Harvard University Press, Cambridge, 1990).
- Harbottle, G., and R. L. Bishop. "Chemical Variation within Pottery from Patarata 52, Veracruz, Mexico," in Patarata Pottery. Classic Period Ceramics of the South-Central Gulf Coast, Veracruz, Mexico by B. L. Stark, Chapter 7, 129-139 (University of Arizona Press, 1989).
- Hare, P. E., and D. W. von Endt. "Carbon - Nitrogen Ratios and the Protein Amino Acid Content of Archaeological Bone," Carnegie Institution of Washington Yearbook, 115 (Carnegie Institution, Washington D. C., 1990).
- Hegmon, Michelle. "Risk Reduction and Variation in Agricultural Economies: A Computer Simulation of Hopi Agriculture," Research in Economic Anthropology 11: 89-121 (JAI Press, Greenwich, Connecticut, 1989).
- _____. "Historical and Analytical Perspectives on Architecture and Social Integration in the Prehistoric Pueblos," in The Architecture of Social Integration in Prehistoric Pueblos, 15-34, eds., W. D. Lipe and M. Hegmon, Occasional Papers (Crow Canyon Archaeological Center, Cortez, Colorado, 1989).
- _____. "Social Integration and Architecture," in The Architecture of Social Integration in Prehistoric Pueblos, 5-14, eds., W. D. Lipe and M. Hegmon, Occasional Papers, (Crow Canyon Archaeological Center, Cortez, Colorado, 1989).
- _____. "The Styles of Integration: Ceramic Style and Pueblo I Integrative Architecture in Southwestern Colorado," in The Architecture of Social Integration in Prehistoric Pueblos, 125-142, eds., W. D. Lipe and M. Hegmon, Occasional Papers (Crow Canyon Archaeological Center, Cortez, Colorado, 1989).
- _____, and W. D. Lipe, eds. The Architecture of Social Integration in Prehistoric Pueblos, Occasional Papers, (Crow Canyon Archaeological Center, Cortez, Colorado, 1989).
- Henrickson, Robert C. "The Buff and the Grey: Ceramic Assemblages and Cultural Process in the Third Millennium B.C. Central Zagros, Iran," in Cross-Craft and Cross-Cultural Interaction in Ceramics, Ceramics and Civilization

- IV, 81-146, eds., M. R. Notis and P. E. McGovern (American Ceramic Society, Westerville, Ohio, 1989).
- Kreidl, N. J., D. R. Uhlmann, and P. B. Vandiver. "Contributions to Glass: From Tableware to Lightpipes," in The Changing Roles of Ceramics in Society, Ceramics and Civilization V, 257-278, ed., W. D. Kingery (American Ceramic Society, Westerville, Ohio, 1990).
- Lim Chong Quek, M. Razak and M. Ballard. "Pest Control for Temperate vs. Tropical Museums: North America vs. Southeast Asia," Preprints, ICOM Committee for Conservation, 9th Triennial Meeting, 817-820 (Dresden, August 26-31, 1990).
- McCormick-Goodhart, Mark. "The Multilayer Structure of Tintypes," Preprints, ICOM Committee for Conservation, 9th Triennial Meeting, 262-267 (Dresden, August 26-31, 1990).
- Mecklenburg, M. F., C. O. Arah, D. McNamara, H. Hand, and J. A. Joyce. "Adhesive Fracture Testing," Fracture Mechanics: Twenty-first Symposium, ASTM STP 1074, 307-321, eds., J. P. Gudas, J. A. Joyce, and E. M. Hackett (American Society for Testing and Materials, Philadelphia, 1990).
- Neff, Hector. "Culture Contact and Ceramic Evolution: Examples from Mesoamerica," in The Changing Roles of Ceramics in Society, Ceramics and Civilization V, 159-182, ed., W. D. Kingery (American Ceramic Society, Westerville, Ohio, 1990).
- Tsang, Jia-sun, Nancie Ravenal, Johanna Bernstein, and Scott Odell. "The Conservation of the 100,000th Steinway Piano," in Cleaning, Retouching and Coatings, Preprints of the Brussels Conference, 52-55 (International Institute for Conservation, London, 1990).
- Tumosa, C. S. "The Use of Lectins in Forensic Science," Forensic Science Review 1: 68-84 (1989).
- van der Reyden, Dianne, Mary Baker, and Nancie Ravenal. "Analysis and Characterization of Some Paper Coatings by FTIR-Microspectroscopy," American Institute for Conservation: Book and Paper Group Annual 8: 1-12 (1989).
- _____, and Helen Burgess. "Bleaching," American Institute for Conservation Catalog, Sixth Edition, 1-37 (October 1989).
- _____, and Christine Smith. "Adhesives," American Institute for Conservation Catalog, Sixth Edition, 38-166 (October 1989).
- Vandiver, Pamela. "The Technology of Korean Celadon Glazes, 10th-16th Centuries," International Symposium on Ancient Ceramics, 165-171 (Research Society of Science and Technology of Ancient Ceramics, Shanghai Institute of Ceramics, Academia Sinica, Shanghai, November 1-5, 1989).
- _____. "The Forming of Neolithic Ceramics in West Asia and Northern China," International Symposium on Ancient Ceramics, 8-14 (Research Society of Science and Technology of Ancient Ceramics, Shanghai Institute of Ceramics, Academia Sinica, Shanghai, November 1-5, 1989).
- _____. "Ancient Glazes," Scientific American 262 (4): 106-113 (April 1990).

- _____. "Review of a Conference and Proceedings Volume: International Symposium on Ancient Ceramics, Shanghai, November 1989," Archeomaterials 4 (2): 203-204 (1989).
- _____. "An Investigation of Some Soft Stone Technologies of the Upper Paleolithic in Eurasia: Ceramics and Pigments," in Chronostratigraphy of the Paleolithic in North, Central, East Asia and America, 244-248 (Institute of History, Philology and Philosophy, Siberian Branch, USSR Academy of Sciences, Novosibirsk, 1990).
- _____, O. Soffer, B. Klima, and J. Svoboda. "The Origins of Ceramic Technology at Dolni Vestonice, Czechoslovakia," Science 246: 1002-1008 (November 24, 1989).
- _____, O. Soffer, B. Klima, and J. Svoboda. "The Origins of Ceramic Technology at Dolni Vestonice, Czechoslovakia, ca. 26,000 B. P.," in Ceramics and Civilization V, 13-28, ed., W. D. Kingery (American Ceramics Society, Westerville, Ohio, 1990).
- Vidale, Massimo. "Stoneware Industry of the Indus Civilization: An Evolutionary Deadend in the History of Ceramic Technology," in Ceramics and Civilization V, 231-256, ed., W. D. Kingery (American Ceramics Society, Westerville, Ohio, 1990)
- von Endt, D. W. "The Stability of Bone in the Ground - A Bibliography," Natural History Conservation, 11 (October 1990).
- _____, and C. A. Hawks. "Mercury in Bioscience Collections - An Annotated Bibliography," Natural History Conservation, 4 (June 1990).
- Williams, Donald C. "The Problem with Furniture Polishes," brochure for general distribution, 1990.
- Yener, K. A., "Arkeometri Projesi: Camardi 1988 Calismalari," V. Arkeometri Sonuclari Toplantisi, 1-12, Antalya, May 18-23, 1989 (General Directorate of Antiquities and Museums, Ankara, 1989).

COOPER-HEWITT NATIONAL MUSEUM OF DESIGN

- Davidson, Gail S. "The American Drawings and The Cooper Union," Exhibition brochure for Training The Hand and Eye : American Drawings From the Cooper-Hewitt Museum, Smithsonian Institution, 1989.
- McFadden, David Revere. Essay for design: Vignelli: "Points of View: Three Decades of Vignelli Design. New York: Rizzoli, 1990
- McFadden, David Revere. Essay for Exhibition catalog Treasures for the Table, American Federation of the Arts and the Chrysler Museum. New York, 1989
- Moss, Gillian. Article "British Copperplate-Printed Textiles" for Antiques. New York, 1990

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

- Fletcher, Valerie. "Alberto Giacometti's Interior of Studio with Apples and Large Standing Woman II and III" (two entries) in The Rita and Taft Schreiber Collection. Los Angeles: Museum of Contemporary Art, 1990.
- _____. "The Hirshhorn Museum's Model of Tatlin's Tower" in Vladimir Tatlin: Leben und Werk. Cologne: DuMont Verlag for Städtische Kunsthalle Düsseldorf, 1990.
- _____. "The Paintings of Alberto Giacometti" in Alberto Giacometti. Madrid: Centro de Arte Reina Sophia, 1990.
- Gettings, Frank. "Forum: Joseph Cornell's Now Voyager..." Drawing XII, no. 2 (July-August 1990): pp. 29-30.
- _____. "Juror's Statement" Illinois State Fair: Professional Art Exhibition, Springfield, Ill., 1990.
- Weil, Stephen E. "Coleman's Vision of the Museum Worker: Is It Still Valid Today?" The Museologist 52, no. 180 (Fall/Winter 1989): 17-19.
- _____. "Rethinking the Museum." Museum News 69, no. 2 (March/April 1990): 56-61.
- _____. Rethinking the Museum and Other Meditations. Washington, D.C.: Smithsonian Institution Press, 1990.
- Zilczer, Judith. Bay Area Figurative Art, 1950-1965. Washington, D.C.: Hirshhorn Museum and Sculpture Garden, 1990 [exhibition brochure].
- _____. Directions -- Keith Sonnier: Neon. Washington, D.C.: Hirshhorn Museum and Sculpture Garden, 1989.
- _____. Francis Bacon. Washington, D.C.: Hirshhorn Museum and Sculpture Garden, 1989 [exhibition brochure republished by Los Angeles County Museum of Art and the Museum of Modern Art, New York].
- _____. "From Mechanical Drawing to Mechanized Dance: Man Ray's Seguidilla." Drawing XI, no. 6 (March-April 1990): 125-28.
- _____. "Joseph Stella" and "Joseph Stella, Brooklyn Bridge" in International Dictionary of Art and Artists. Chicago and London: St. James Press, 1990: vol. 1, pp. 805-6; vol. 2, pp. 932-33.
- _____. Letter about a Review: "The Casting History of Duchamp-Villon's Horse." The Art Bulletin LXXI, no. 1 (March 1989): 156.
- _____. "Raymond Duchamp-Villon" and "Raymond Duchamp-Villon, The Horse" in International Dictionary of Art and Artists (Chicago and London: St. James Press, 1990): vol. 1, pp. 256-59; vol. 2, pp. 789-99.

Department of Aeronautics

- Cochrane, D., Hardesty, V., and Lee, R. The Aviation Careers of Igor Sikorsky. Seattle: University of Washington Press, 1989.
- Crouch, T.D. The Bishop's Boys: A Life of Wilbur and Orville Wright. Quality Paperback Book Club Edition, 1989.
- _____, The National Aeronautics and Space Administration. New York: Chelsea House, 1990.
- _____, "Some Thoughts on Public History and Social Responsibility," Illinois Historical Review (Fall 1989, pp. 195-200).
- Davies, R.E.G., "The Eastern Air Shuttle," Airliners, Winter 1989.
- _____, "Striving Towards Commercial Air Transport," Putnam Aeronautical Review, March, June, September, December 1989.
- _____, "Fasten Those Seat Belts!" Airliners, Summer 1990.
- _____, "By the Numbers!" Airliners, Fall 1990.
- Hardesty, V., "Roles and Missions: Soviet Tactical Air Power in the Second Period of the Great Patriotic War," Transformation in Russian and Soviet Military History, Proceedings of the 12th Military History Symposium, U.S.A.F. Academy 1986. Washington, D.C.: Office of Air Force History, 1990.
- Jacob, P., Visions of a Flying Machine: The Wright Brothers and the Process of Invention. Washington, D.C.: Smithsonian Institution Press, 1990.
- Mikesh, R.C., Japanese Aircraft 1910-1941. London: Putnam Aeronautical Books, 1990.
- _____, "The Unexpected FAC Mission," Chapter 18 in Life on the Line by Philip D. Chinnery, New York: Blandford Press, 1989.
- _____, "Getting it Together in Washington," Water Flying 1990 Annual, vol. 12, pp. 32-37, February 1990.
- Pisano, D.A., "The Literature of Aviation," in Milestones of Flight, pp. 296-299. John T. Greenwood, editor, New York: H.L. Levin, 1989.

Department of Space History

- Ceruzzi, Paul. Beyond the Limits (Boston: MIT Press, 1989).
- _____. "Electronics Technology and Computer Science: A Coevolution," published in Annals of the History of Computing, vol. 10, #4, 1989.
- _____, et al. Computing Before Computers, (Ames, Iowa: Iowa State University Press, 1990).
- Collins, Martin, ed. Directory of Sources for Air and Space History: Primary Historical Collections in the United States, general editor (NASM October 1989).
- _____, ed. Proceedings. Preserving the History of the Aerospace Industry. A Conference (NASM September 1990).
- DeVorkin, David. "Along for the Ride: The Response of American Astronomers to the Possibility of Space Research, 1945 - 1950," in M. De Maria and M. Grilli, The Restructuring of Physical Sciences in Europe and the United States, 1945 - 1960, (London: World Scientific, 1989), 55 - 74.
- _____. "Henry Norris Russell," Scientific American, May 1989, pp. 126-133.

- _____. Race to the Stratosphere: Manned Scientific Ballooning in America, (New York: Springer Verlag, 1989).
- _____. "Defending a Dream: The Abbot Years," Journal for the History of Astronomy xxi (1990), pp. 121-136.
- _____. "Interviewing Physicists and Astronomers: Methods of Oral History," Chapter 3, in John Roche, ed., Physicists Look Back: Studies in the History of Physics, (Bristol, England: Adam Hilger, 1990), pp. 44-65.
- _____, with Ralph Kenat. "Quantum Physics and the Stars III: Towards a Rational Theory of Stellar Spectra," Journal for the History of Astronomy xxi (1990), pp. 157-186.
- Herken, Gregg. "Early Takes on PBS' Nuclear Age," Deadline, January/February 1989, pp. 3 - 9.
- _____. "The Flying Crowbar," Air & Space, April/May 1990, pp. 28-34.
- _____. "Kapustin Yar Diary," Air & Space, August/September 1990, pp.84-88.
- Kozloski, Lillian. "Sharon Christa Corrigan McAuliffe, First Teacher in Space," World Book, 8th Edition, 1990.
- _____, with Maura Mackowski. "The Wrong Stuff," Final Frontier, May/June 1990.
- _____. "Conservation-conscious Manikins for Space Suit Displays--A Curatorial Viewpoint," Ars Textrina, January 1990.
- Lewis, Cathleen. "16 January 1969: Soiuz 4 and 5 Dock in Space" In The Book of Days 1989: An Encyclopedia of Resource Guides on Historical Figures and Events, (Ann Arbor: Pierian Press, 1989).
- Neal, Valerie. Science in Orbit: The Shuttle and Spacelab Experience, 1981 - 1986, NASA NP - 119.
- _____. Exploring the Universe with the Hubble Space Telescope, NASA NP - 126, March 1990.
- _____, with Gerald Fishman and Donald Kniffen. "Gamma-Ray Observatory," Mercury, July/August 1990, pp. 98-111.
- Needell, Allan, ed. The First 25 Years in Space: A Symposium, (Washington, D.C.: Smithsonian Institution Press, 1983). (2nd Edition with a new Introduction: 1989).
- _____. "Lloyd V. Berkner on Organizing American Science for Social Purposes, 1945-1960," The Restructuring of Physical Sciences in Europe and the United States, 1945-1960. (London: World Scientific, 1989).
- Smith, Robert. "The Cambridge Network in Action: The Discovery of Neptune," ISIS, September 1989.
- _____. The Space Telescope: A Study of NASA, Science, Technology, and Politics, (New York: Cambridge University Press, 1989).
- _____. "Edwin P. Hubble and the Transformation of Cosmology," Physics Today, April 1990, pp. 52-8.
- _____. "Edwin Hubble en de Kosmologie," Intermediair, June/July 1990, pp. 15-23.
- Winter, Frank. "Bringing Up Betsy," Air & Space, vol. 3, Dec. 1988/Jan. 1989, pp. 76 - 84.
- _____. The First Golden Age of Rocketry: Congreve and Hale Rockets of the Nineteenth Century, (Smithsonian Institution Press: Washington and London, 1990).
- _____. Rockets into Space, (Harvard University Press: Cambridge and London, 1990).
- _____. "Out of the Past--An Aeospace Chronology," monthly column, with Frank R. Van Der Linden, Aerospace America, January-December 1990.

Center for Earth and Planetary Studies

- Chadwick, D. J., Watters, T. R., and Tuttle, M. J. [Abstract]. "Crosscutting, Periodically Space Wrinkle Ridges of Hysperia Planum." In Lunar and Planetary Science XXI, pp. 175-176. Houston: Lunar and Planetary Institute, 1990.
- Craddock, R. A. and Maxwell, T. A. [Abstract]. "Martian Highland Resurfacing." In Geological Society of America Abstracts with Programs 21(1989):A371.
- Craddock, R. A. and Maxwell, T. A. [Abstract]. "Evidence for Widespread Resurfacing in the Martian Highlands." In Lunar and Planetary Science XXI, pp. 236-237. Houston: Lunar and Planetary Institute, 1989.
- Craddock, R. A. and Maxwell, T. A. [Abstract]. "Resurfacing of the Martian Highlands in the Amenthes and Tyrrhena Region." In Transactions American Geophysical Union 71 (1990):707.
- Craddock, R. A., Greeley, R., and Christensen, P. R. "Evidence for an Impact Basin in Daedalia Planum, Mars." In Journal of Geophysical Research 95 (1990):10,729-10,741.
- Craddock, R. A. and Maxwell, T. A. "Resurfacing of the Martian Highlands in the Amenthes and Tyrrhena Region." In Journal Geophysical Research 95 (1990):14,265-14,278.
- Craddock, R. A., Greeley, R., and Christensen, P. R. [Abstract]. "Evidence For An Incient Impact Basin in Daedalia Planum, Mars." In Transactions American Geophysical Union 71 (1990):828
- Craddock, R. A., Zimbelman, J. R. and Greeley, R. [Abstract]. "Geologic History of the Southern Reaches of Mangala Valles." In Lunar and Planetary Science XXI, pp. 240-241. Houston: Lunar and Planetary Institute, 1990.
- Craddock, R. A., and Zimbelman, J. R. [Abstract]. "Bedrock Exposure in the Sinus Meridiani Region of Mars." In Transactions American Geophysical Union 71 (1990):547.
- Edgett, K. S. and Zimbelman, J. R. [Abstract]. "The Arsia Mons-Oti Fossae Thermal Anomaly: A Region With a Higher Thermal Inertia Than the Rest of Tharsis." In Lunar and Planetary Science XXI, pp. 315-316. Houston: Lunar and Planetary Institute, 1990.
- Fink, J. H. and Zimbelman, J. R. "Longitudinal Variations in Rheologic Properties of Lavas: Puu Oo Basalt Flows, Kilauea Volcano, Hawaii." In IAVCEI Proceedings in Volcanology, Volume 2, Lava Flows and Domes (J. H. Fink ed.), pp. 157-173. Springer-Verlag: New York (1989).
- Forsythe, R. D. and Zimbelman, J. R. [Abstract]. "A Discussion of Mars' Western Equatorial Dichotomy Boundary Zone; Enigmas, Anomalies and Controversies." In Lunar and Planetary Science XXI, pp. 383-384. Houston: Lunar and Planetary Institute, 1990.
- Jacobberger, P. A. "Changes in Morphologic and Aeolian Processes in the Upper Inland Niger Delta." In Sand Transport and Desertification in Arid Lands, pp. 66-78, (ed. F. El-Baz, I. A. El-Tayeb, and M. H. A. Hassan). World Scientific Publishing Company, Pte. Ltd., Singapore, 1990.
- Maxwell, T. A. and Haynes, C. V. [Abstract]. "Remote Sensing Analysis of Temporal Changes in Southwest Egypt: Geomorphic Implications." In Proceedings Second International Conference on Geomorphology (D. Busche, ed.). Frankfurt: Geoko Plus (1989).
- McBride, K. and Zimbelman, J. R. [Abstract]. "Small Volcanic Features in

- Western Elysium Planitia." In Lunar and Planetary Science XXI, pp. 746-747. Houston: Lunar and Planetary Institute, 1990.
- Watters, T. R. and Golombek, M. P. [Editors]. "MEVTV Workshop on Tectonic Features on Mars." Technical Report 89-06, 126 pp. Houston: Lunar and Planetary Institute, 1989.
- Watters, T. R. "Periodically Spaced Anticlines of the Columbia Plateau." In Volcanism and Tectonism in the Columbia River Flood-Basalt Province. Geological Society of America Special Paper No. 239, pp. 283-292, (ed. S. P. Reidel and P. R. Hooper), 1989.
- _____. [Abstract]. "The Nature and Origin of Periodically Spaced Wrinkle Ridges on Mars." In Lunar and Planetary Science XXI, pp. 1304-1305. Houston: Lunar and Planetary Institute, 1990.
- _____. [Abstract]. "The Nature and Origin of Periodically Spaced Wrinkle Ridges on Mars." In Reports of Planetary Geology and Geophysics Program - 1989, pp. 495-496. NASA TM-4210, 1990.
- Watters, T. R. and Tuttle, M. J. [Abstract]. "Origin of Curvilinear Graben in Southwest Lunae Planum, Mars." In Reports of Planetary Geology and Geophysics Program - 1989, pp. 507-508. NASA TM-4210, 1990.
- Watters, T. R. and Tuttle, M. J. [Abstract]. "Domains of Regional Pure Shear on the Terrestrial Planets." In Reports of Planetary Geology and Geophysics Program - 1989, pp. 503-504. NASA TM-4210, 1990.
- Watters, T. R., Chadwick, D. J., Lui, M. C. [Abstract]. "Distribution of Strain in the Floor of the Olympus Mons Caldera." In Reports of Planetary Geology and Geophysics Program - 1989, pp. 490-491. NASA TM-4210, 1990.
- Watters, T. R. and Tuttle, M. J. [Abstract]. "Origin of Curvilinear Graben in Southwest Lunae Planum, Mars." In Lunar and Planetary Science XXI, pp. 1308-1309. Houston: Lunar and Planetary Institute, 1990.
- Watters, T. R., Chadwick, D. J., and Lui, M. C. [Abstract]. "Distribution of Strain in the Floor of the Olympus Mons Caldera." In Lunar and Planetary Science XXI, pp. 1310-1311. Houston: Lunar and Planetary Institute, 1990.
- Watters, T. R., Tuttle, M. J., and Kiger, F. J. [Abstract]. "Symmetry of Inferred Stress Field in the Tharsis Region of Mars." In Reports of Planetary Geology and Geophysics Program 1989, pp. 488-489. NASA TM-4210, 1990.
- Watters, T. R., Tuttle, M. J., and Kiger, F. J. [Abstract]. "Symmetry of Inferred Stress Field in the Tharsis Region of Mars." In Lunar and Planetary Science XXI, pp. 1312-1313. Houston: Lunar and Planetary Institute, 1990.
- Watters, T. R. and Tuttle, M. J. [Abstract]. "Domains of Regional Pure Shear on the Terrestrial Planets." In Lunar and Planetary Science XXI, pp. 1308-1309. Houston: Lunar and Planetary Institute, 1990.
- Williams, S. H. and Zimbelman, J. R. [Abstract]. "Preliminary Geologic Mapping in the Western Utopia Planitia Region of Mars." In Reports of Planetary Geology and Geophysics Program - 1988, pp. 580-582. NASA TM-4130, 1989.
- Williams, S. H. and Zimbelman, J. R. [Abstract]. "Preliminary Geologic Mapping Near the Nilosyrtis Mensa, Mars." In Lunar and Planetary Science XXI, pp. 1341-1342. Houston: Lunar and Planetary Institute, 1990.
- Williams, S. H. and Zimbelman, J. R. [Abstract]. "Preliminary Geologic Mapping of MTM Quads 40292 and 40297, North of the Nilosyrtis Mensae, Mars." In Reports of Planetary Geology and Geophysics Program - 1989,

- pp. 551-553. NASA TM-4210, 1990.
- Zimbelman, J. R. [Abstract]. "Application of Glacier Reconstruction Techniques to Concentric Crater Fill on Mars." In Geological Society of America Abstracts with Programs 21 (1989):A371.
- _____. [Abstract]. "Geologic Mapping of southern Mangala Valles, Mars. In Reports of Planetary Geology and Geophysics Program - 1988, pp. 578-579. NASA TM-4130, 1990.
- _____. "Outliers of Dust Along the Southern Margin of the Tharsis Region, Mars. In Proceedings of the Lunar and Planetary Science Conference XX, pp. 525-530. Lunar and Planetary Institute: Houston, 1989.
- _____. [Abstract]. "Planetology and Meteoritics." In Geotimes 35(2) (1990):62-63.
- _____. [Abstract]. "Geologic Mapping of the Central Mangala Valles Region, Mars." In Lunar and Planetary Science XXI, pp. 1373-1374. Houston: Lunar and Planetary Institute, 1990.
- _____. [Abstract]. "Henry Crater, Mars: Thick, Layered Deposit Preserved on a Crater Floor in the Martian Highlands." In Lunar and Planetary Science XXI, pp. 1375-1376. Houston: Lunar and Planetary Institute, 1990.
- _____. [Abstract]. "Thickness Estimates for Concentric Crater Fill on Mars." In Transactions of American Geophysical Union 71(17) (1990):547.
- _____. [Abstract]. "Thickness Estimates for Concentric Crater Fill in the Utopia Planitia Region of Mars." In Reports of Planetary Geology and Geophysics Program - 1989, pp. 1377-1378. NASA TM-4210, 1990.
- _____. [Abstract]. "Preliminary Geologic Map of Central Mangala Valles, Mars. In Reports of Planetary Geology and Geophysics Program - 1989, Houston: Lunar and Planetary Institute, 1990.
- Zimbelman, J. R. and Craddock, R. A. [Abstract]. "An Evaluation of the Possible Extent of Bedrock Exposure in the Sinus Meridiani Region of the Martian Highlands." In Lunar and Planetary Science XXI, pp. 1377-1378. Houston: Lunar and Planetary Institute, 1990.
- Zimbelman, J. R. and Craddock, R. A. [Abstract]. "Extent of Bedrock Exposure in the Sinus Meridiani Region of the Martian Highlands." In Reports of Planetary Geology and Geophysics Program - 1989, pp. 546-548. NASA TM-4210, 1990.

Laboratory for Astrophysics

- Greenhouse, M.A., with Grasdalen, G.L., Hayward, T.L., Gehrz, R.D. and Jones, T.J., "The Infrared Coronal Lines of Recent Novae," Astrophys. J. 353, 307.
- Harwit, M. "Chemical Analyses with the Infrared Space Observatory (ISO). In Interstellar Chemistry, NATO Advanced Study Institutes Series C: Mathematical and Physical Sciences. Dordrecht, Holland: D. Reidel, 1990.
- _____, "Infrared Line Emission by Broadly Distributed Gas," in IAU Colloquium on Diffuse Radiation in Space, 1990.
- Smith, H.A., with Fischer, J., and Glaccum, W., "Fabry-Perot Imaging Spectroscopy of Interacting and Merging Galaxies: NGC 3690 and NGC 6240. in Proceedings of the Conference on IR Arrays, Tucson.
- _____, with Forden, C., Glaccum, W., and Fischer, J., "A Fringe-Counting System for Control of Fabry-Perot Spectrometers," Review of Scientific Instruments, September 1990. Colloquium on Diffuse Radiation in Space, 1990.

_____, with Beall, J., and Swain, M., "Infrared Emission from X-Ray Binaries: IRAS Observations. Astron. J. 99, 273.

NATIONAL MUSEUM OF AFRICAN ART

Cole, Herbert M. ICONS: Ideals and Power in the Art of Africa.

Washington, D.C.: Smithsonian Institution Press for the National Museum of African Art, 1989.

Geary, Christraud M. "Mannerbunde im Kameruner Grasland." Mannerbunde - Mannerbunde: Zur Rolle des Mannes im Kulturvergleich. Eds. G. Volger and K. von Welck. Cologne, Germany: Rautenstrauch-Joest-Museum, 1990.

_____, "On the Savannah: Marie Pauline Thorbecke's Images from Cameroon, West Africa (1911-12)." Art Journal, Vol. 49, 2. 1990.

_____, "Impressions of the African Past: Interpreting Ethnographic Photographs from Cameroon." Visual Anthrpology, Vol. 3. 1990

Nicolls, Andrea. Icons: Ideals and Power in the Art of Africa [exhibition brochure]. Washington, D.C.: National Museum of African Art, 1989.

Ravenhill, Philip. "The Challenge of History." African Arts 23 (3):1,6,8. 1989. "The Passive Object and the Implicit Paradigm: Colonial Museography in French West Africa." In Mary Jo Arnoldi, Christraud Geary, & Kris Hardin (eds.) Proceedings of the May 1988 Conference and Workshop on African Material Culture. Joint Committee on African Studies - ACLS/SSRC pp. 99-101. 1989 [published abstract of yet to be published paper].

Sieber, Roy. Contribution in African Art Studies: The State of the Discipline. Washington, D.C.: National Museum of African Art, 1990.

_____, Chapter, "Fierce or Ugly?" in Art as a Means of Communication in Pre-Literate Societies. Ed. Dan Eban, with Erik Cohen and Brenda Danet, The Proceedings of the Wright International Symposium on Primitive and Pre-columbian Art, Dec. 30, 1984 - Jan. 2, 1985. Jerusalem, The Israel Museum, 1990.

Walker, Roslyn A. "Yoruba, Nine Centuries of African Art and Thought" [exhibition review]. African Arts 23 (July 1990): 79-80.

NATIONAL MUSEUM OF AMERICAN ART

- Esterman, M.M. A Fish That's A Box (Arlington, VA: Great Ocean Publishers, 1990).
- Fink, Lois Marie. American Art at the Nineteenth Century Paris Salons (New York: Cambridge University Press, 1990).
- Foresta, Merry. "Past Perfect, Future" in Dick Arentz (Huntington Museum of Art, 1990).
- Foresta, Merry. Man Ray In Fashion (New York: International Center for Photography, 1990).
- Hartigan, Lynda Roscoe. "Miles Carpenter: Carving the Old-Fashioned Way" in Miles Carpenter: A Second Century (Flossie Martin Gallery, Radford University, 1990).
- Hartigan, Lynda Roscoe. "Collected with Passion" in The Clarion, 15 (3): 34-41 (Summer 1990).
- Hartigan, Lynda Roscoe. "The Hemphill Folk Art Collection" in The Magazine Antiques, October 1990: 798-809.
- Murray, Richard. "H. Siddons Mowbray: Murals of the American Renaissance" in Insight and Inspiration, II: The Italian Presence in American Art, 1860-1920 (Fordham University Press, 1991).
- Smithsonian Studies in American Art, 41 (Spring 1990). (New York: Oxford University Press, 1990).
- Smithsonian Studies in American Art, 42 (Fall 1990). (New York: Oxford University Press, 1990).

NATIONAL MUSEUM OF AMERICAN HISTORY

Office of the Director

Kennedy, Roger G. Greek Revival America. (New York: Stewart, Tabori & Chang, 1989).
_____, editorial director. The Smithsonian Guide to Historic America. 12 volumes (New York: Stewart, Tabori & Chang, 1989-90).

Department of the History of Science and Technology

Daniel, Pete. "A Rogue Bureaucracy: The USDA Fire Ant Campaign of the Late 1950s." Agricultural History 64: 99-114 (Spring 1990)

_____. "Deep Exposures: The Landscape and Atmosphere of Mystery" in Carry Me Home. Photographs by Debbie Fleming Caffrey (Washington, D.C.: Smithsonian Institution Press, 1990).

Davis, Audrey B. "American Medicine in the Gilded Age: The First Technological Era." Annals of Science 47: 111-25. (1990).

_____. "With Love and Money: Visiting Nursing in Buffalo, New York, 1885-1915." New York History 71: 45-67 (1990).

Davis, Audrey B., with Stanley Burns and Richard Glenner. The American Dentist (Missoula, Montana: Pictorial Histories Publishing Co., 1990).

Ezell, Edward C. "Infantry Support Weapons in an Era of Uncertainty." Armada International: 61-67 (April-May 1990).

_____. "Personal Infantry Weapons: Old Weapons or New Hardware in the Coming Decades?" Armada International: 56, 58, 60, 62, 64, and 66 (June-July 1990).

_____. "Small Arms: Where Is the Market? Preserving a Small Arms Technology and Industrial Base in the 1990s: A Political and Economic Challenge." Military Technology: 17-23 and 24 (July 1990).

_____. "Special Report--The Cuban Connection: Guns by the Ton." News from the Institute for Research on Small Arms in International Security, I, 1: 10-20 (November 1989).

Abridged version reprinted in Terror Update (London):4-5. (November 1989).

Finn, Bernard. "Exhibit Reviews--Twenty Years After." Technology and Culture 30: 993-1003 (1989).

_____. "The Museum of Science and Technology" in The Museum: A Reference Guide, edited by Michael S. Shapiro. (Westport, Conn.: Greenwood Press, 1989).

_____. "Working at Menlo Park" in Working at Inventing: Thomas A. Edison and the Menlo Park Experience, edited by William S. Pretzer. (Dearborn, Mich.: Henry Ford Museum & Greenfield Village, 1989).

Forman, Paul. "Social Niche and Self-Image of The American Physicist," Proceedings of the International Conference on

- The Restructuring of Physical Sciences in Europe and The United States, 1945-1960, 96-104.
- Green, Rayna. American Indian Sacred Objects, Human Remains, Repatriation and Reburial: A Resource Guide. (Washington, D.C.: American Indian Program, National Museum of American History, 1990).
- Green, Rayna, "American Indian Women: Diverse Leadership for Social Change" in Bridges of Power: Women's Multicultural Alliances, by L. Albrecht (New Society Publications, 1990).
- _____. "The Beaded Adidas" (1989). Reprinted in The Runner (Smithsonian Institution, 1990) and Messenger (The Wheelwright Museum, 1990).
- _____. "Kill the Indian and Save the Man: Indian Education in the U.S." in To Lead and To Serve: Indian Education at Hampton Institute, 1878-1923, by M. Hultgren and P. Molin (Virginia Foundation for the Humanities and Public Policy, 1989)
- _____. "Magnolias Grow in Dirt: The Bawdy Lore of Southern Women" (1977). Reprinted in Calling Home: Working Class Women's Writings, by P. Zandy (New Brunswick, N.J.: Rutgers University, 1990).
- _____. "On Looking in the Mirror of an Institution." Virginia Humanities Newsletter (Fall 1989). Reprinted in Northeast Indian Studies (Summer 1990).
- _____. "The Pocahantas Perplex: The Image of Indian Women in American Vernacular Culture" (1976). Reprinted in Unequal Sisters: A Multicultural Reader in U.S. Women's History, by E. Dubois, 1990.
- Johnston, Paul F. "Between the Devil and The Dark Blue Sea: Archaeology and the Council of American Maritime Museums" in Underwater Archaeology Proceedings from the Society for Historical Archaeology Conference, edited by J. Barto Arnold III. (Pleasant Hill, Calif.: Society for Historical Archaeology, 1989) 149-150.
- _____. "The Duty to Save Sunken Booty." Business and Society Review 73: 18-21 (1990).
- _____. "Knowledge: The Real Treasure." Sea History 51: 6-7 (Autumn 1989).
- _____. Review of Le Musee Imaginaire de la Marine Antique, by L. Basch (Athens: Institut Hellenique pour la Preservation de la Tradition Nautique, 1987). The American Neptune 50.(1): 63-65 (1990).
- _____. Review of A History of Seafaring in the Classical World, by F. Meijer (London & Sydney: Croom Helm, 1986). Mediterranean Historical Review 4.(2): 375-76 (1989).
- _____. ed., Melvin H. Jackson, "The Philadelphia Steamboat of 1796." The American Neptune 50.(3): 201-210 (1990).
- Langley, Harold D. "Winfield Scott Schley: The Confident Commander" in Admirals of the New Steel Navy: Makers of the American Naval Tradition, 1880-1930, edited by James C. Bradford (Annapolis, Md.: U.S. Naval Institute Press, 1990).

- Langley, Harold D., Francis L. Loewenheim, and Manfred Jones, eds. Roosevelt and Churchill: Their Secret Wartime Correspondence. paperback edition (New York: Da Capo Press, 1990).
- Lubar, Steven. "New, Useful, and Nonobvious." American Heritage of Invention and Technology: (Spring-Summer 1990).
- Mayo, Edie. "A New View." Museum News: (July-August 1990).
- Melosh, Barbara. "Recovery and Revision: Women's History and West Virginia." West Virginia History 49: 3-6 (1990).
- _____. Review of Domesticity and Dirt, by Palmer. American Studies International
- _____. Review of Private Matters, by Sylvia Hoffert. ISIS, 81 1 (306): 125-27 (1990).
- Molella, Arthur P. "Mr. Mumford and Mr. Fisher." Railroad History (April 1990).
- _____. Review of G.T. Fechner and Psychology, edited by Josef Brozek. ISIS (April 1990).
- Post, Robert. "Invention in 19th-Century America" in The Spirit of American Invention (Washington, D.C.: Smithsonian Institution Press, 1990).
- _____. Streetcars and the Growth of Los Angeles (San Marino: Golden West Books, 1989).
- _____. "Turning the Century" in Images of America (Washington, D.C.: Smithsonian Institution Press, 1990)
- _____, ed. Technology and Culture (October 1989, January, April, July 1990).
- Sharrer, G. Terry. The Biology Revolution: Implications for Virginia Agriculture (Blacksburg: Virginia Cooperative Extension Service, 1990).
- Stephens, Carlene. "Astronomy as Public Utility: The Bond Years at the Harvard College Observatory." Journal for the History of Astronomy 21: 21-36 (1990).
- Stephens, Carlene, with Michael O'Malley. "Clockwork History Monumental Clocks and the Depiction of the American Past." National Association of Watch and Clock Collectors Bulletin 32: 3-15 (February 1990).
- Stine, Jeffrey K. "Planning for Smithsonian 'Science in American Life' Exhibit Under Way." The Capital Chemist 40: 30-31 (August-September 1990).
- Warner, Deborah Jean. "Gambey's American Customers." Rittenhouse 3: 65-78 (1990).
- _____. "Microscopes and Medicine in the U.S., 1840-1860." Rittenhouse 3: 19-29 (1990).
- _____. "What Is a Scientific Instrument, When Did It Become One, and Why?." British Journal for the History of Science. 23: 83-93 (1990).
- White, John H., Jr. "Home to Roost: The Story of Live Poultry Transit by Rail." Agricultural History 63 (3): 81-94 (Summer 1989).
- _____. "Party Time Trolleys" Timeline 6 (6): 44-53 (December 1989-January 1990).

- _____. "Riding in Style: Palace Cars for the Cattle Trade." Technology and Culture 31 (2): 265-270 (April 1990).
- _____. "Spunky Little Devils: Locomotives of the New York Elevated." Railroad History 162: 20-79 (Spring 1990).
- White, Roger B. "Fisher Body Corporation" in Encyclopedia of American Business History and Biography, edited by George S. May, 1990.
- _____. "A Presidential Train Wreck." Maryland: (Summer 1990).
- _____. "The Stars Wore Stripes: GIs Entertaining GIs at Fort George G. Meade and Overseas, 1941-1945." Anne Arundel County History Notes: (April and July 1990).
- Withuhn, William L. "From the Cab." Sixth in a series. Newsletter, Railway and Locomotive Historical Society 9 (4): 2, (December 1989).
- _____. "The 1989 Railroad History Awards." Railroad History 161: 9-15 (Autumn 1989).

Department of Social and Cultural History

- Adrosko, Rita J. "Identifying Late 19th-Century Upholstery Fabrics" in Upholstery Conservation 103-35. (American Conservation Consortium, Ltd, 1990).
- Ahlborn, Richard E. "Material Culture Terms from the 1776 Report of Fray Francisco Atanacio Dominguez on the Missions of New Mexico." SMRC Newsletter: 4 (March 1990).
- _____. "The Will of A New Mexico Woman in 1762." New Mexico Historical Review 55 (3): 319-55 (July 1990).
- _____, co-author Mexican Americans: No Longer A Secret. (Washington: The Portfolio Project, Inc., 1990).
- Bird, William L., Jr. "Enterprise and Meaning: Sponsored Film, 1939-1949." History Today 39: 24-30 (December 1989).
- _____. "A Spate of New Toys Invades America's Living Rooms." Smithsonian 20: 82-85 (June 1989).
- Bunch, Lonnie G. "Black America and the California Dream." Humanities Network (California Council for the Humanities): (Winter 1990).
- _____. "A Past Not Necessarily Prologue: The Afro-American in Los Angeles" in 20th Century Los Angeles, edited by Norman Klein and Martin Schiesl.
- _____. "Strong Men" (introductory essay) in Men of Courage (1990).
- Bunch, Lonnie G., with Spencer R. Crew. "The Need for Effective Exhibition Review." Perspectives: (May-June 1990).
- Fesperman, John. "Mechanical and Electrical Stop Actions after Twenty Years." American Organist: (March 1990).
- _____. Review of The Organ, by Owen and Willings. The Tracker (Organ Historical Society) 33: 3 (December 1989).
- Harris, Elizabeth. The Art of the Nature Print. (Washington, D.C.: National Museum of American History, Smithsonian Institution, 1989).

- _____. Introduction to The Biography of Ottmar Mergenthaler, edited by Carl Schlesinger. (1989).
- _____. "Press builders in Philadelphia, 1776-1850." Printing History: (1989)
- Hasse, John. "The 'Centennial of Jazz'? An Alternative Proposal." Jersey Jazz: (March 1990). Reprinted in NJSO Jazz Journal and Federation Jazz.
- _____. "Charles Hansen," "Irving Mills," and "John Stark" in Music Printing and Publishing, edited by D. W. Krummel and Stanley Fadie. The New Grove Handbooks in Music. (London: Macmillan Press, 1990).
- _____. "Duke Ellington." Jazz Educator's Journal 22 (1): 24-27 (January 1990).
- _____. "Folklorists at Work." Update: A Quarterly from Special Projects at the Indiana University Folklore Institute: 2 (February 1990).
- _____. "Sidney Bechet" in Encyclopedia of Southern Culture, edited by Charles Reagan Wilson and William Ferris, 1044-45. (Chapel Hill and London: The University of North Carolina Press, 1989).
- _____, producer and annotator. The Classic Hoagy Carmichael. Rev. ed. Three compact discs with 64-page booklet. (Washington, D.C.: Smithsonian Collection of Recordings and Indianapolis: Indiana Historical Society, 1990).
- Hoover, Cynthia Adams. "The Great Piano War of the 1870s" in A Collection of American Music: Words and Music in Honor of H. Wiley Hitchcock, edited by Richard Crawford, R. Allen Lott, and Carol J Oja, 134-53. (Ann Arbor: The University of Michigan Press, 1990).
- Janssen, Barbara Suit, ed. Icons of Invention: American Patent Models. (Washington, D.C.: National Museum of American History, Smithsonian Institution, 1990).
- Mayo, Edith P. "A New View?" Museum News: 48-50 (July-August 1990)
- Roth, Rodris. "Household Furniture" in Icons of Invention: American Patent Models, edited by Barbara Suit Janssen, 52-54 and 57. (Washington, D.C.: National Museum of American History, Smithsonian Institution, 1990).
- Serio, Anne. "Lighting Devices" in Icons of Invention: American Patent Models, edited by Barbara Suit Janssen, 57-58 and 60-61. (Washington, D.C.: National Museum of American History, Smithsonian Institution, 1990).
- Slowik, Kenneth, performer and annotator. Eine kleine Nachtmusik, etc., by W. A. Mozart (Smithsonian Collection ND 039).
- _____. Pieces a deux violes, by Marin Marais (deutsche harmonia mundi 77146-2-RC).
- _____. St. John Passion, BWV 245, by J. S. Bach (Smithsonian Collection ND 0381).
- _____. Souvenirs and Caprices, by Adrien-Francois Servais (deutsche harmonia mundi 77108-2-RG)

- _____. String Quartets Op. 54, Nos. 1 & 2, by Joseph Haydn (deutsche harmonia mundi RD77028).
- _____. String Quartets Op. 77 & 103, by Joseph Haydn (deutsche harmonia mundi 77106-2-RG).
- Weaver, James, performer. Three Works for Solo Harpsichord, by J. S. Bach (Smithsonian Collection of Recordings ND0383).
- _____. Twelve Trio Sonatas of Opus 3 (1689), by Arcangelo Corelli. The Smithsonian Chamber Players (Smithsonian Collection of Recordings ND035).

National Numismatic Collection

- Clain-Stefanelli, Elivra. "Smithsonian Institution, Legacy of an Englishman." Coin World 31 (1552): 48 (January 10, 1990).
- _____. "Patent Office Was Home to the National Collections." Coin World 31 (1557): 92 (February 14, 1990).
- _____. "Mint Collection Moves to Smithsonian in 1923." Coin World 31 (1562): 92 (March 21, 1990).
- _____. "National Numismatic Collection Doubles." Coin World 31 (1569): 94 (May 9, 1990).
- Doty, Richard G. "Boulton, Watt and the Export of Coining Technology: The Case in Mexico, 1825-1849" in Proceedings of the 10th International Congress of Numismatics (London: International Association of Professional Numismatists, 1990) 597-602.
- _____. "Matthew Boulton and the Coinage Revolution" in Rythmes de la production monetaire de l'antiquite a nos jours (Louvain-la-Neuve, Belgium: 1990) 675-84.
- _____. "Nationhood through Numismatics: Latin American Proclamation Pieces" in Proceedings of the Fifth Coinage of the Americas Conference (New York: The American Numismatics Society, 1989) 233-41.
- _____. "'An onerous & delicate task': Franklin Peale's Mission South, 1837" in Proceedings of the Sixth Coinage of the Americas Conference (New York: The American Numismatics Society, 1990) 67-82.
- _____. "The World Coin: Matthew Boulton and His Industrialisation of Coinage." Interdisciplinary Science 15 (2): 177-86 (June 1990).
- _____. Review of Money: From Cowrie Shells to Credit Cards, edited by Joe Cribb. In Numismatic Chronicle 149: 227-28 (London, 1989).
- Gilliland, Cory. "John Cook, An Enigma." Medaglia 17 (24): 155-68 (1989).
- _____. "A Medal for the Alma Mater" in Lars Lagerquist Festschrift (Stockholm: 1989) 103-110. Reprinted in TAMS Journal 29 (5): 161-67 (October 1989).
- _____. "Medals" in Introduction to Numismatics. A Correspondence Course of the American Numismatic Association and the School of Numismatics (Colorado Springs, Colo.: American Numismatics Association, 1990) 176-87.

_____. "Thoughts on the Iconography of Several Early American Medals" in Proceedings of the 10th International Congress of Numismatics (London: International Association of Professional Numismatists, 1990) 641-46.

_____. "U.S. Gold Bullion Coins—A Nineteenth Century Proposal." Proceedings of the Sixth Coinage of the Americas Conference (New York: American Numismatics Society, 1990) 17-32.

National Philatelic Collection

Bruns, James. "Born to Trouble." Postal Stationery 32 (1): 26-31 (January-February 1990).

_____. "Destroying Old Postal Card Plates." Postal Stationery 31 (5): 136-39 (September-October 1989).

_____. "Don't Mess with the Mail." The Heliograph 4 (1): 1-3 (Winter 1990).

_____. "Experimental Electrics." Springfield Stamp Club News: 1 (September 1989).

_____. "The Lamppost Letter Box." The Heliograph 3 (4): 1-7 (Fall 1989).

_____. "The Legacy Endures." Heartland 12 (2): 102-20 (Winter 1989).

_____. "Motorized Two and Three-wheelers." The Heliograph 4 (2): 1-4 (Spring 1990).

_____. Owney (Washington, D.C.: National Philatelic Collection, National Museum of American History, 1990).

_____. "Packing Postal Cards." Postal Stationery 32 (4): 127-29 (July-August 1990).

_____. "Poking Fun at the Posts." The United States Specialist 61 (8): 439-49 (August 1990).

_____. "Pornography and the Posts." Stamps 25: (March 10, 1990).

_____. "Postal Cards Depicting the Works of the Federal Architects of the Victorian Era." Postal Stationery 32 (3): 95-107 (May-June 1990).

_____. "Test Electric Cars Lacked Power." Springfield Stamp Club News: 4-5 (December 1989).

_____. "Two-faced Money." Postal Stationery 32 (2): 50-54 (March-April 1990).

_____. "War and Peace Models." The United States Specialist 60 (11): 578-82 (November 1989).

Geraci, Joseph. "First Day Covers." Stamps: (September 30, 1990).

_____. "Ecuador Albums Contain Early Issues." Stamp Collector: (September 30, 1989).

_____. "United Kingdom Mail Agent Traced Via His Obliterator." Stamp Collector: (November 18, 1989).

_____. "Italian Postal Steamers Service West Africa." Stamps: (March 24, 1990).

- _____. "Foreign Postal History in Other Journals." Postal History Journal: (June 1990).
- O'Donnell, James. "America's Oldest First Day Cover." Postal History Journal: (October 1990).
- Pope, Nancy. "The Higlett Booklet." Stamps 230 (1): (January 9, 1990).
- _____. "Braving the Rails." Railway Mail Service Library: (April 1990).

NATIONAL MUSEUM OF NATURAL HISTORY

Department of Anthropology

- Arnoldi, Mary Jo. "Reconstructing the History and Development of Puppetry in the Segu Region, Mali." In Man Does Not Go Naked. Basel, Switzerland: Ethnologisches Seminar der Universitat und Museum fur Volkerunde. 1990.
- Arnoldi, Mary Jo (with Georg and Hardin). Proceedings of the 1988 Conference and Workshop on African Material Culture. ACLS/SSRC and Smithsonian Institution. Smithsonian Institution Press. 1989.
- Bass, William M.; Jantz, Richard L.; Smith, Fred H.; and Ubelaker, Douglas H. A Review of Human Origins. Sixth Edition. Knoxville: University of Tennessee Press. (1990).
- Bateman, Richard; Goddard, Ives; O'Grady, Richard; Funk, V. A.; Mooi, Richard; Kress, W. John; Cannell, Peter. "The Feasibility of Reconciling Human Phylogeny and Linguistic History." Current Anthropology. 31 (1990): 1-24.
- Bateman, Richard; Goddard, Ives; O'Grady, Richard; Funk, V. A.; Mooi, Richard; Kress, W. John; and Cannell, Peter. "On Human Phylogeny and Linguistic History: Reply to Comments." Current Anthropology. 31 (1990): 177-183.
- Bateman, Richard; Goddard, Ives; O'Grady, Richard; Funk, V. A.; Mooi, Richard; Kress, W. John; and Cannell, Peter. "Reply." Current Anthropology. 31 (1990): 315-316.
- Butler, Carol. "The Plastered Skulls of 'Ain Ghazal: Preliminary Findings." In People and Culture in Change: Proceedings of the Second Symposium on Upper Palaeolithic, Mesolithic and Neolithic Populations of Europe and the Mediterranean Basin. Edited by Israel Hershkovitz. B.A.R. International Series 508(i). (1989) Oxford: B.A.R., 141-145.
- Campbell, Lyle and Goddard, Ives. "Summary Report: American Indian Languages and Principles of Language Change." In Linguistic Change and Reconstruction Methodology. Edited by Philip Baldi. (1990): 17-32. Berlin: Mouton de Gruyter.
- Chiarelli, B. A.; Hilloowala, R. A.; Dal Pozzo, G.; and Ubelaker, Douglas H. "Assessment of Asymmetry of the Broca's Area Through C.A.T. Imagery." Human Evolution. 4 (1)(1989): 55-61.
- Doss, Michael; Fleming, Paula Richardson; and Hale, Duane. "The Indian Nations: The First Americans--A Historical Perspective." The Portfolio Project, Inc. Part of the Series, Immigrants All...Americans All. (1989).
- Ewers, John C. "The Blackfoot: Wendel Reiss' Indians." In To Color America: Portraits by Wendel Reiss, by Jeffrey C. Stewart. Washington, D. C.: Smithsonian Institution Press. (1989).
- Fitzhugh, William W. "Global Issues In Circumpolar Culture Studies." Proceedings of the Leningrad Conference on Coordination of Research in the Arctic. (1990).
- Fitzhugh, William W. "Smithsonian Institution." In Arctic Research of the United States. 4 (Spring 1990): 100-102.
- . The Arctic Studies Center. Pamphlet on the Smithsonian Arctic Program. (1990).
- . "United States Arctic Research Plan--Biennial Revision: 1990-1991." Arctic Research of the United States. 3 (Fall 1989): 1-62.

- Fitzhugh, William W. "Principles for the Conduct of Research in the Arctic." Report of the Social Science Task Force of the Interagency Arctic Research Policy Committee (IARPC), Chaired by Noel Broadbent, Polar Programs, National Science Foundation.
- Glenn, James R. "The Growth of an Anthropological Photograph Collection: From Passive Acceptance to the Imperative for Controlled Growth." Visual Anthropology. 3 (1990): 157-168.
- Goddard, Ives. "Algonquian Linguistic Change and Reconstruction." In Linguistic Change and Reconstruction Methodology. Edited by Philip Baldi. (1990): 99-114. Berlin: Mouton de Gruyter.
- . "Aspects of the Topic Structure of Fox Narratives: Proximate Shifts and the Use of Overt and Inflectional NP's." In International Journal of American Linguistics. 56 (1990): 317-340.
- . Linguistic editor of Northwest Coast. Edited by Wayne Suttles. (1990). Handbook of North American Indians Volume 7. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- . "Synonymy" in the chapter "Haida." In Northwest Coast. Edited by Wayne Suttles. (1990): 258-260. Handbook of North American Indians Volume 7. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- Goddard, Ives; Codere, Helen; and Suttles, Wayne. "Synonymy" in the chapter "Kwakiutl: Traditional Culture." In Northwest Coast. Edited by Wayne Suttles. (1990): 376-377. Handbook of North American Indians Volume 7. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- Goldstein, Lynne; Moratto, Michael; and Ubelaker, Douglas H. "The Panel for a National Dialogue on Museum/Native American Relations: A Minority View." Museum Anthropology. 14 (1)(1990): 15-16.
- Grant, Lauryn Guttenplan, and Ubelaker, Douglas H. "Human Skeletal Remains: Preservation or Reburial?" Yearbook of Physical Anthropology. 32 (1989): 249-287.
- Hofman, J. L.; Brooks, R. L.; Hays, J. S.; and Owsley, D. W. "Adaptation Types for the Southern Great Plains Region." In From Clovis to Comanchero: Archaeological Overview of the Southern Great Plains. Edited by J. L. Hofman, et. al. Arkansas Archaeological Survey Research Series (Fayetteville). 35(1989): 157-174.
- Homiak, John P. "Melville J. Herskovits: Motor Behavior and the Imaging of Afro-American Culture." Visual Anthropology. 3(1990): 11-29.
- Homiak, John P. "The Anthropological Visualization of Haiti: Reflections on the Films of Melville Herskovits and Maya Deren." In CVA Review (Commission D'Anthropologie Visuelle). (Spring 1990): 13-21.
- . Review of Drinkers, Drummers, and Decent Folk: Ethnographic Narratives in Village Trinidad, by John O. Stewart. Albany: State University of New York Press, 1989. In American Anthropologist. 92 (1990): 525-526.
- Hunt, David R. "Dermatoglyphic Variation Among Sub-Saharan Africans: A Multivariate Analysis of Population Structure." Ph.D. Dissertation, University of Tennessee. (1989)
- . "Sex Determination in the Subadult Ilia: An Indirect Test of Weaver's Nonmetric Sexing Method." In Journal of Forensic Sciences. 35 (1990): 881-885.

- Kaeppler, Adrienne L. "The Production and Reproduction of Social and Cultural Values in the Compositions of Queen Salote of Tonga." In Music, Gender, and Culture. Edited by Marcia Herndon and Susanne Ziegler. (1990): 191-219. Berlin: International Institute for Comparative Music Studies and Documentation.
- "Hawaiian Art and the Communication of Social Values." In Art as a Means of Communication in Pre-Literate Societies. Edited by Dan Eban. (1990): 259-270. Jerusalem: The Israel Museum.
- Foreword to Feather Lei as an Art, by Mary Louise Kaleonahenahe Kekuewa and others. (1990). Honolulu: Na Lima Mili Hulu No'eau.
- "Musicology Plus (or Minus) Anthropology Does Not Equal Ethnomusicology." Adrienne Kaeppler's response to Richard Moyle's response. Ethnomusicology. 34 (2)(1990): 275-279.
- Review of Hawaiian Hula Chants, by Nona Beamer. In Folk Music Journal. (1989): 653-655.
- "Art and Aesthetics." In Developments in Polynesian Ethnology, edited by Alan Howard and Robert Borofsky. (1990): 211-240. Honolulu: University of Hawaii Press.
- Karp, Ivan. "Introduction." In The Creativity of Power: Cosmology And Action in African Societies. Ivan Karp and W. Arens, Editors. (1989): xi-xxix. Washington, D. C.: Smithsonian Institution Press.
- "Power and Capacity in Rituals of Possession." In The Creativity of Power: Cosmology and Action in African Societies. Ivan Karp and W. Arens, Editors. (1989): 91-109. Washington, D. C.: Smithsonian Institution Press.
- Karp, Ivan, and Arens, W. (Editors). The Creativity of Power: Cosmology and Action in African Societies. Washington, D. C.: Smithsonian Institution Press. (1989).
- Kaupp, P. Ann. "High Infant Mortality Among the Urban Poor." Anthro. Notes. 11 (3)(Fall 1989): 4-6, 10.
- Anthro. Notes. A National Museum of Natural History Newsletter for Teachers. 11(3); 12(1); 12(2); 1989-90.
- Kratz, Corinne A. "Okiek Potters and Their Wares." In Kenyan Pots and Potters. Edited by J. Barbour and S. Wandibba. Nairobi: Oxford University Press. (1989).
- Kratz, Corinne A. "Genres of Power: A Comparative Analysis of Okiek Blessings, Curses and Oaths." Man (N.S.) 24 (1989): 299-317.
- "Persuasive Suggestions and Reassuring Promises: Emergent Parallelism and Dialogic Encouragement in Song." Journal of American Folklore. 103 (1990): 42-66.
- "Sexual Solidarity and the Secrets of Sight and Sound: Shifting Gender Relations and their Ceremonial Constitution." American Ethnologist. 17 (3)(1990): 31-51.
- Laughlin, Robert. "Me and Sna. Jtz'ibajom (The House of the Writer)." Anthro. Notes, National Museum of Natural History Newsletter for Teachers. 12 (1)(1990): 9-11.
- "Caught in a Web of Mysteries: Pursuing the Great Tzotzil Dictionary of Santo Domingo Zinacantan." Princeton University Library Chronicle. LI (3)(1990): 267-282.
- Mann, R. W.; Dahlberg, A. A.; and Stewart, T. D. "A Developmental and Genetic Anomalous Morphological Formation of Deciduous and Permanent Teeth in a Five Year Old Fifteenth-Century Child: A Variant of the Ekman-Westborg-Julien Syndrome." Oral Surgery Oral Medicine Oral Pathology. 70 (1990).

- Mann, R. W.; Owsley, D. W.; and Sledzik, P. S. "Seronegative Spondyloarthropathy of the Foot." Journal of the American Podiatric Medical Association. 80 (7)(1990): 395-396.
- Mann, R. W.; Sledzik, P. S.; Owsley, D. W.; and Droulette, M. R. "Radiographic Examination of Chinese Foot Binding." Journal of the American Podiatric Medical Association. 80 (8)(1990): 405-409.
- Mann, R. W. and Ubelaker, D. H. "The Forensic Anthropologist." FBI Law Enforcement Bulletin. 59 (7)(July 1990): 20-23.
- Mann, Robert W. "Lingual Cortical Defect of Unknown Etiology." American Journal of Roentgenology. 154 (February 1990).
- Mann, Robert W., and Murphy, S. P. Regional Atlas of Bone Disease: A Guide to Pathologic and Normal Variation in the Human Skeleton. Springfield: Charles C. Thomas. (1990).
- Marino, Cesare. "History of Western Washington Since 1846." In Handbook of North American Indians Volume 7. In Northwest Coast. Edited by Wayne Suttles. (1990): 169-179. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution Press.
- Owsley, D. W. and Mann, R. W. "Foot Deformity of Unknown Etiology in a Prehistoric Archaeological Skeleton from Texas." Journal of the American Podiatric Medical Association. 80 (7)(1990): 360-363.
- "Bilateral Dorsal Defect of the Patella." American Journal of Roentgenology. 154 (June 1990): 1347-1348.
- "An American Indian Skeleton with Clubfoot from the Cabin Burial Site (All84), Hemphill County, Texas." Plains Anthropologist. 35 (128)(1990): 93-101.
- "Anatomical and Osteopathology Reference Collections for Podiatric Research." Journal of the American Podiatric Medical Association. 79 (11)(1989): 572-575.
- Owsley, D. W. and Mann, R. W. "Positive Identification Based on Radiographic Examination of the Leg and Foot: A Case Report." Journal of the American Podiatric Medical Association. 79 (10)(1989): 511-513.
- Owsley, Douglas W. "History of Bioarchaeological Research in the Southern Great Plains." In From Clovis to Comanchero: Archaeological Overview of the Southern Great Plains. Edited by J. L. Hofman et. al. Arkansas Archaeological Survey Research Series. (Fayetteville). (35)(1989): 123-136.
- "Author's Note, Where are the Soliders Buried?" Civil War Times Illustrated. 28 (6)(1989): 8, 24.
- Owsley, Douglas W. and Jantz, R. L. "A Systematic Approach to the Skeletal Biology of the Southern Plains." In From Clovis to Comanchero: Archaeological Overview of the Southern Great Plains. Edited by J. L. Hofman et al. Arkansas Archaeological Survey Research Series. (Fayetteville). (35)(1989): 137-156.
- Owsley, Douglas W.; Marks, M. K.; and Manhein, M. H. "Human Skeletal Samples in the Southern Great Plains." In From Clovis to Comanchero: Archaeological Overview of the Southern Great Plains. Edited by J. L. Hofman et. al. Arkansas Archaeological Survey Research Series. (Fayetteville). (35)(1989): 111-122.
- Rogers, J. Daniel. Objects of Change: The Archaeology and History of Arikara Contact with Europeans. Smithsonian Institution Press, Washington, D. C. (1990).
- "Review of Bibliography of the Catawba, by Thomas J. Blumer." Scarecrow Press, Metuchen, New Jersey: Scarecrow Press. American Indian Quarterly. 14 (1987): 67-68. (1990).

- Scherer, Joanna Cohan. Editor. "Historical Photographs as Anthropological Documents: A Retrospect." In Picturing Cultures: Historical Photographs in Anthropological Inquiry. (1990): 131-155. Special Issue Visual Anthropology. 3 (2-3).
- . "Images of Native Americans." Commentary. In History of Photography. 14 (3)(July 1990).
- . Film Review of "Memories in Black and White." In American Anthropologist. 92 (2)(June 1990).
- . "Benedicte Wrensted: Forgotten Pocatello Photographer." Danish Sisterhood News. 62 (4-5)(April-May 1990).
- Simmons, Alan H.; Boulton, Ann; Butler, Carol Roetzel; Kafafi, Zeidan; and Rollefson, Gary O. "A Plastered Skull from Neolithic 'Ain Ghazal, Jordan." Journal of Field Archaeology. 17 (1)(1990): 107-110.
- Smith, Bruce D. Editor. The Mississippian Emergence. Smithsonian Institution Press. 1990.
- . "Research on the Origins of Mississippian Chiefdoms in Eastern North America." In The Mississippian Emergence. Edited by Bruce D. Smith. Smithsonian Institution Press. (1990).
- . "Origins of Agriculture in Eastern North America." In Science. 246 (1989): 1566-1571.
- Sturtevant, William C. "What Does the Plains Indian War Bonnet Communicate?" In Art as a Means of Communication in Pre-Literate Societies. Edited by Dan Eban. (1990): 355-374. Jerusalem: The Israel Museum.
- . Northwest Coast. Edited by Wayne Suttles. In Handbook of North American Indians Volume 7. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution. (1990).
- Taylor, Paul M. Review of Cosmology and Social Life: Ritual Exchange Among the Mambai of East Timor, by Elizabeth G. Traube. Chicago: The University of Chicago Press. (1986). In Journal of Southeast Asian Studies. 20 (1)(1989): 126-128.
- . Review of An Anthropology of Curing in Multiethnic Thailand by Louis Golomb. Urbana: University of Illinois Press. (Illinois Studies in Anthropology. No. 15). In American Ethnologist. 16 (3)(1989): 576-577.
- . The Folk Biology of the Tobelo People: A Study in Folk Classification. Smithsonian Contributions to Anthropology. 34 (1990).
- . Introduction to A Journey through Chinese Hell: Hell Scrolls of Taiwan, by Neal Donnelly. Taipei: Artist Publishing Company. (Published in both English and Chinese.) (1990).
- . "The Inspiration of Affandi." In Affandi in America. Washington, D. C.: International Monetary Fund. (1990).
- Taylor, Paul M.; Peterson, B. V.; Durden, L. A.; and Keirans, J. "Notes on Some Ectoparasites of Bats from Halmhera Island, Indonesia." Entomological News. 101 (1)(Jan.-Feb. 1990): 39-47.
- Ubelaker, Douglas H. "The Estimation of Age at Death from Immature Human Bone." Chapter 3 (1990): 55-70. In Age Markers in the Human Skeleton. Edited by Mehmet Yasar Iscan. Springfield: Charles C. Thomas.
- . "Porotic Hyperostosis, Parasitism and Sedentism in Ancient Ecuador." American Journal of Physical Anthropology. 81 (2)(1990): 309-310.
- . "Positive Identification of American Indian Skeletal Remains from Radiograph Comparison." Journal of Forensic Sciences. 35 (2)(1990): 466-472.

- Ubelaker, Douglas H. "Importance to Forensic Science of Permanent Curation of Museum Collections of Human Remains." Journal of Forensic Sciences. 35 (3)(1990): 513.
- Van Beek, Gus. "Total Retrieval and Maximum Reconstruction: An Experiment in Archaeological Methodology." Eretz Israel. 20 (the Y. Yadin Volume). (1989): 12-29.
- "The Buzz: A Simple Toy from Antiquity." Bulletin of the American Schools of Oriental Research. 275 (1990): 53-58.
- Verano, John W. "The Moche: Profile of an Ancient Peruvian People." Anthro. Notes. 12 (1)(1990). National Museum of Natural History, Smithsonian Institution.
- Review of M. N. Cohen's Health and the Rise of Civilization and M. K. Matossian's Poisons of the Past. Wilson Quarterly. 14 (2)(1990): 101.
- Zeder, Melinda A. "Animal Exploitation at Tell Halif." Bulletin of the American Schools of Oriental Research. (26)(1990): 24-30.
- Zenk, Henry and Goddard, Ives. "Synonymy" in the chapter "Siuslawans and Coosans." In Northwest Coast. Edited by Wayne Suttles. (1990): 578-579. Handbook of North American Indians Volume 7. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.

Department of Botany

- Acevedo, P. "The Occurrence of Piscicides and Stupefactants in the Plant Kingdom." Advances in Economic Botany. 8 (1990): 1-23.
- Bateman, R. M.; Goddard, I.; O'Grady, R. T.; Funk, V. A.; Mooi, R.; Kress, W. J.; and Cannell, P. F. "Speaking of Forked Tongues: the Feasibility of Reconciling Human Phylogeny and Language." Current Anthropology. 31 (1990): 1-13.
- Bucher, K. E.; Norris, J. N.; Littler, M. M.; and Littler, D. S. "Marine Algae New to Florida, Including Trichosolen molassensis (Chlorophyta) sp. nov. and Diplothamnion jolyi var. ecellulare (Rhodophyta) var. nov." Cryptogamic Botany. 22 (1990): 1-20.
- Faust, M. A. "Cysts of Prorocentrum marinum (Dinophyceae) in Floating Detritus at Twin Cays, Belize Mangrove Habitat." In: Toxic Marine Plankton. Edited by E. Granelli et. al. Elsevier, New York. (1990): 138-143.
- "Morphologic Details of Six Benthic Species of Prorocentrum (Pyrrophyta) from mangrove island, Twin Cays, Belize, Including Two New Species." Journal of Phycology. 26 (1990): 548-558.
- Feuillet, C. and Skog, L. E. "Proposal to Emmend the Type Citation of Alloplectus Mart., nom. cons. (Gesneriaceae: Gesnerioideae)." Taxon. 39 (1990): 133-134.
- Goldberg, Aaron. "Classification, Evolution, and Phylogeny of the Families of Monocotyledons." Smithsonian Contributions to Botany. 71 (1989): 74 pages, 41 figures, 2 tables, 1 diagram.
- Graham, A.; Graham, S. A.; Nowicke, J. W.; Patel, V.; and Lee, S. "Palynology and Systematics of Lythraceae. III. Genera Physocalymma through Woodfordia, Addenda, and Conclusions." American Journal of Botany. 77 (1990): 159-177.
- Hale, M. E. and Fletcher, A. "Rimelia Hale and Fletcher, a New Lichen Genus (Ascomycotina: Parmeliaceae)." The Bryologist. 93 (1)(1990): 23-29.

- Jaensch, M.; Jakupovic, I.; King, R. M.; and Robinson, H. "Pyrones and Other Constituents from Podolepis Species." Phytochemistry. 28 (12)(1989): 3497-3501.
- Judziewicz, E. J. and Peterson, P. M. "Sporobolus temomaiemensis (Poaceae: Eragrostideae), a New Species from Brazil and Surinam." Systematic Botany. 14 (4)(1989): 525-528.
- _____. "A New Cleistogamous South American Species of Eragrostis (Poaceae: Chloridoideae)." Brittonia. 42 (1)(1990): 47-49.
- Kilar, J. A.; Littler, M. M.; and Littler, D. S. "Functional-morphological Relationships in Sargassum polyceratium (Fucales): Phenotypic and Ontogenetic Variability in Apparent Photosynthesis and Dark Respiration." Journal of Phycology. 25 (4)(1989): 713-720.
- Kress, W. J. "Taxonomy of Old World Heliconia (Heliconiaceae)." Allertonia. 6 (1990): 1-58.
- _____. "The Systematic Distribution of Vascular Epiphytes." In Phylogeny and Ecophysiology of Epiphytes. Edited by U. Luttge. (1990). Springer-Verlag, Berlin.
- _____. "New Taxa and Notes on Heliconia (Heliconiaceae)." Selbyana. 11 (1989): 49-53.
- _____. "Heliconiaceae." In Manuel of the flowering plants of Hawai'i. Edited by W. L. Wagner, D. R. Herbst and S. H. Sohmer. (1990): 1440-1442, University of Hawaii Press, Honolulu.
- Kress, W. J.; Luther, H. E.; and Roesel, C. S. "Genetic Variation in Three Species of Florida Tillandsia." Journal of the Bromeliad Society. 40 (1990): 59-63, 81.
- Littler, D. S.; and Littler, M. M. "Reestablishment of the Genus Rhipidosiphon Montagne (Udoteaceae, Bryopsidales), with a Description of Rhipidosiphon floridensis sp. nov." British Phycological Journal. 25 (1990): 1-6.
- _____. "Systematics of Udotea Species (Bryopsidales, Chlorophyta) in the Tropical Western Atlantic." Phycologia. 29 (2)(1990): 206-252.
- Miller, J. S., and Nowicke, J. W. "Dioecy and a Reevaluation of Lepidocordia and Antrophora (Boraginaceae: Ehretioideae)." American Journal of Botany. 77 (1990): 543-551.
- Nicolson, D. H. "General Committee Report 2." Taxon. 38 (1989): 662-663.
- _____. "Nomenclature Editor Note [on Illustrations as Types]." Taxon. 39 (1990): 307.
- _____. "Nomenclature Editor Note [on History of -ae- Issue]." Taxon. 39 (1990): 371.
- O'Grady, R. T.; Goddard, I.; Bateman, R. M.; DiMichele, W. A.; Funk, V. A.; Kress, W. J.; Mooi, R.; and Cannell, P. F. "Genes and Tongues (Letter)." Science. 243 (1989): 1651.
- Peterson, P. M. "Muhlenbergia majalcensis (Poaceae: Eragrostideae), a New Species from Chihuahua, Mexico." Systematic Botany. 14 (3)(1989): 316-319.
- _____. "Lemma Micromorphology in the Annual Muhlenbergia (Poaceae)." Southwestern Naturalist. 34 (1)(1989): 61-71.
- _____. "A Re-evaluation of Bealia mexicana (Poaceae: Eragrostideae)." Madrono. 36 (4)(1989): 260-265.
- Peterson, P. M. and Annable, C. R. "A Revision of Blepharoneuron (Poaceae: Eragrostideae)." Systematic Botany. 15 (4)(1990): 515-525.
- Peterson, P. M.; Annable, C. R.; and Franceschi, V. R. "Comparative Leaf Anatomy in the Annual Muhlenbergia (Poaceae)." Nordic Journal of Botany. 8 (6)(1989): 575-583.

- Poston, M. and Nowicke, J. W. "Pollen Ultrastructure and Systematics of Loasaceae." American Journal of Botany. 77 (1990): 151. Abstract.
- Pragowski, J.; Nowicke, J. W.; Raven, P. H.; Skvarla, J. J.; and Hoch, P. C. "Ongraceae Juss. Onagreae R. Raimann pro parte, Lopezieae Spach." World Pollen and Spore Flora. 16 (1990): 1-35.
- Robinson, H. "Studies in the Lepidaploa Complex (Vernonieae: Asteraceae) VII. The genus Lepidaploa." Proceedings of the Biological Society of Washington. 103 (2)(1990): 464-498.
- _____. "A Functional Evolution of the Leucobryaceae." Tropical Bryology. 2 (1990): 223-237.
- _____. "Six New Combinations in Baccharoides Moench and Cyanthillium Blume (Vernonieae: Asteraceae)." Proceedings of the Biological Society of Washington. 103 (1)(1990): 248-253.
- _____. "Acilepidopsis, a New Genus of Vernonieae from South America (Asteraceae)." Phytologia. 67 (4)(1989): 289-292.
- Robinson, H.; Powell, A. M.; Carr, G. D.; King, R. M.; and Weedin, J. F. "Chromosome Numbers in Compositae, XVI: Eupatorieae II." Annals of the Missouri Botanical Garden. 76 (1990): 1004-1011.
- Shetler, Stanwyn G. "Butterfly Gardening and Conservation." In Butterfly Gardening: Creating Summer Magic in Your Garden, created by the Xerces Society in Association with the Smithsonian Institution. San Francisco: Sierra Club Books. 192 pages. (1990): 107-109.
- Skog, L. E. and Brothers, L. "Bibliography of the Gesneriaceae." Printed as a Special Number of Gesneriologia. (1990): 1-205.
- Skog, L. E. and Feuillet, C. "Proposal to Emend the Type Citation of 7860 Alloplectus Mart., nom. cons. (Gesneriaceae: Gesnerioideae)." Taxon. 39 (1)(1990): 133-134.
- Smith, L. B. and Kress, W. J. "New or Restored Genera of Bromeliaceae." Phytologia. 66 (1989): 70-79.
- Tan, B. and Robinson, H. "A Review of Philippine Hookeriaceous Taxa (Musci)." Smithsonian Contributions to Botany. 75 (1990): i-iv, 1-41.
- Villa-Lobos, J. "A Gift to the Future." Biological Conservation Newsletter. 79 (1990): 1-2.
- _____. "First National Park in Belize." Biological Conservation Newsletter. 86 (1990): 1.
- Wagner, W. L.; Herbst, D. R.; and Sohmer, S. H. "Manual of the Flowering Plants of Hawai'i." University of Hawaii Press and Bishop Museum Press. (1990): 1853 pp. and 245 plates in 2 volumes (Bishop Museum Special Publication 83).
- Wasshausen, D. C. "New Species of Mendoncia (Acanthaceae) from Colombia." Brittonia. 41 (4)(1989): 329-334.
- _____. "New Species of Justicia (Acanthaceae) from the Planalto of Brazil." Brittonia. 41 (4)(1989): 379-384.
- _____. "New and Interesting Species of Acanthaceae from Colombia." Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales. 17 (65)(1989): 249-257.
- _____. "New Species of Mendoncia (Acanthaceae) from the Venezuelan Guayana." Annals of the Missouri Botanical Garden. 76 (1989): 1118-1124.
- _____. "New Species of Stenandrium (Acanthaceae) from the Planalto of Brazil." Brittonia. 42 (1)(1990): 1-6.
- Weller, S. G.; Sakai, A. K.; Wagner, W. L.; and Herbst, D. R. "Evolution of Dioecy in Schiedea (Caryophyllaceae: Alsinoideae) in the Hawaiian Islands: Biogeographical and Ecological Factors." Systematic Botany. 15 (1990): 266-276.

- Wurdack, J. J. "Una Nueva especie colombiana de Tessmannianthus." Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales. 17 (1989): 247-248.
- _____. "A New Species of Miconia R. & P. (Melastomataceae) from Amazonian Peru." Candollea. 44 (1989): 517-519.
- _____. "Melastomataceae." In "Flora of the Venezuelan Guayana-VII. Contributions to the Flora of the Cerro Aracamunk, Venezuela." J. A. Steyermark and B. K. Holst, and Collaborators. Annals of the Missouri Botanical Garden. 76 (1989): 961-962, 988.

Department of Entomology

- Bickley, W. E. and Harrison, B. A. "Separation of Variable Culex territans Specimens from other Culex (Neoculex) in North America." Mosquito Systematics. 21 (3)(1989): 188-196.
- Burns, John M. "Up the Food Chain" from BioGraffiti. In The Wisdom of the Genes: New Pathways in Evolution, by C. Wills. New York: Basic Books (1989): 180.
- _____. "Evolution of Auditory Ossicles" from BioGraffiti. In "An Earful of Jaw," by S. J. Gould. Natural History. (March 1990): 23.
- _____. "Amblyscirtes: Problems with Species, Species Groups, the Limits of the Genus, and Genus Groups Beyond--A Look at What Is Wrong with the Skipper Classification of Evans (Hesperiidae)." Journal of the Lepidopterists' Society. 44 (1990): 11-27.
- _____. "Fitness by Any Other Name Would Be As Loose" from BioGraffiti. In Invertebrates by R. C. and G. J. Brusca. Sunderland, Massachusetts: Sinauer (1990): 11.
- Carvalho, Jose C. M. and Froeschner, Richard C. "Taxonomic Names Proposed in the Insect Order Heteroptera by Jose Candido Melo Carvalho from January 1985 to January 1989, with Type Depositories." Journal of the New York Entomological Society of Washington. 98 (1990): 310-346.
- Coddington, J. A. "Spinneret Silk Spigot Morphology. Evidence for the Monophyly of Orb-weaving Spiders, Cyrtophorinae (Araneidae), and the Group Theridiidae-Nesticidae." Journal of Arachnology. 17 (1)(1989): 71-95.
- _____. "Ontogeny and Homology in the Male Palpus of Orb Weaving Spiders and Their Relatives, with Comments on Phylogeny (Araneoclada: Araneoidea, Deinopoidea)." Smithsonian Contributions to Zoology. 496 (1990): 1-52.
- _____. "Spider Literature: a Computer Bibliography, ver. 2." [About 21,000 keyworded bibliographic citations (3.2 megabytes), available on diskette.] (1990).
- Coddington, J. A.; Horner, M.; and Soderstrom, E. A. "Mass Aggregations in Tropical Harvestmen (Opiliones, Gagrellidae: Prionostemma spp.)." Revue Arachnologique. 8 (13)(1990): 213-219.

- Coddington, J. A.; Larcher, S. F.; and Cokendolpher, J. C. "The Systematic Status of Arachnida, Exclusive of Acarina, in North America North of Mexico (Arachnida: Amblypygi, Araneae, Opiliones, Palpigradi, Pseudoscorpiones, Ricinulei, Schizomida, Scorpiones, Solifugae, Uropygi)." Pp. 5-20 In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 90-91.
- Davis, Donald R. "An Exceptional Fossil Amber Collection Acquired by the Smithsonian Institution." Proceedings of the Entomological Society of Washington. 9 (4)(1989): 545-550.
- _____. "Generic Revision of the Opostegidae, with a Synoptic Catalog of the World's Species (Lepidoptera: Nepticulidae)." Smithsonian Contributions to Zoology. 478 (1989): 1-97.
- _____. "Neotropical Microlepidoptera XXIII. First Report of the Family Eriocottidae from the New World, with Descriptions of New Taxa." Proceedings of the Entomological Society of Washington. 92 (1)(1990): 1-35.
- _____. "First Record of a Bagworm Moth from Hawaii: Description and Introduction of Brachcyttarus griseus De Joannis (Lepidoptera: Psychidae)." Proceedings of the Entomological Society of Washington. 92 (2)(1990): 259-270.
- _____. "Family Tineidae." In "Primary Types of Microlepidoptera in the Museum of Comparative Zoology (With a Discussion on V. T. Chambers' Work)," by Scott E. Miller and Ronald W. Hodges. Bulletin of the Museum of Comparative Zoology. 152 (2)(1990): 50-54.
- Durden, L. A.; Peterson, B. V.; Wilson, N.; and Christiansen, B. "Some Ectoparasites of Bats from Seram Island, Indonesia." Entomological News. 101 (1990): 48-56.
- Eldridge, B. F. and Harbach, R. E. "Culex stigmatosoma Dyar, 1907 and C. thriambus Dyar, 1921 (Insecta, Diptera): Proposed Conservation of the Specific Names by the Suppression of C. peus Speiser, 1904." Bulletin of Zoological Nomenclature. 46 (4)(1989): 247-249.
- Evenhuis, N. L. and Thompson, F. C. "Type Designations of Genus Group Names of Diptera Given in d'Orbigyn's Dictionnaire Universel d'Histoire Naturelle." Bishop Museum of Occasional Papers. 30 (1990): 226-258.
- Forster, R. R.; Platnick, N. I.; and Coddington, J. A. "A Proposal and Review of the Spider Family Synotaxidae (Araneae, Araneoidea), with Notes on Theridiid Interrelationships." Bulletin of the American Museum of Natural History. 193 (1990): 1-116.
- Freidberg, Amnon, and Mathis, Wayne N. "A New Species of Craspedoxantha and a Revised Phylogeny for the Genus (Diptera: Tephritidae)." Proceedings of the Entomological Society of Washington. 92 (2)(1990): 325-332.
- Froeschner, Richard C. "A Small Collection of Heteroptera from the Galapagos Islands, with the Description of a New Species Niesthra ashlocki and a List of Niesthrea Species." Proceedings of the Biological Society of Washington. 102 (1989): 609-612.
- _____. "Three New Species of Colombian Lace Bugs of the Genera Leptodictya and Leptoparsa (Heteroptera: Tingidae)." Proceedings of the Biological Society of Washington. 102 (1989): 968-972.
- Froeschner, Richard C. and Kormilev, Nicholas A. "Phymatidae or Ambush Bugs of the World: A Synoptic List with Keys to Species, Except Lophoscutus and Phymata (Hemiptera)." Entomography. 6 (1989): 1-76.

- Froeschner, Richard C. and Kormilev, Nicholas A. "Case 2700. Carcinochelis Fieber, 1861 (Insecta, Heteroptera): Proposed Designation of Carcinochelis alutaceus Handlirsch, 1897 as the Type Species." Bulletin of Zoological Nomenclature. 47 (1990): 30-31.
- Gagné, R. J. "The Gall Midge Complexes (Diptera: Cecidomyiidae) on Spurges (Euphorbia spp.) in Europe." In Proceedings of the 1989 Leafy Spurge Symposium. Edited by R. M. Nowierski. Bozeman: Montana State University. (1990): 2 pages.
- _____. "Gall Midge Complex (Diptera: Cecidomyiidae) in Bud Galls of Palearctic Euphorbia (Euphorbiaceae)." Annals of the Entomological Society of America. 83 (1990): 335-345.
- Gagné, R. J. and Duncan, R. W. "A New Species of Cecidomyiidae (Diptera) Damaging Shoot Tips of Yellow Cypress, Chamaecyparis mootkatensis, and a New Genus for Two Gall Midges on Cupressaceae." Proceedings of the Entomological Society of Washington. 92 (1990): 146-152.
- Gerson, U. and Smiley, R. L. "Acarine Biocontrol Agents. An Illustrated Key and Manual." London: Chapman and Hall. 174 (1990): 174.
- Gordon, R. D. and Hilburn, D. J. "Coccinellidae (Coleoptera of Bermuda)." Journal of the New York Entomological Society. 98 (1990): 265-309.
- Gordon, R. D.; Pakaluk, J.; and Slipinski, S. A. "Carinodulini, a New Tribe of Sticholotidinae Based Upon a New Genus and Species from Mexico (Coleoptera: Coccinellidae)." Coleopterists Bulletin. 43 (1989): 359-364.
- Grissell, E. E. "Discovery of Holly Seed-feeding Wasp." Holly Society Journal. 7 (1990): 3-9.
- Grissell, E. E. and Schauff, M. E. "A Synopsis of the Seed-feeding Genus Bephratelloides (Chalcidoidea: Eurytomidae)." Proceedings of the Entomological Society of Washington. 92 (1990): 177-187.
- Harbach, R. E. and Peyton, E. L. "A New Subgenus in Wyeomyia (Diptera: Culicidae), with the Reclassification and Redescription of the Type Species, Sabethes fernandezyepezi." Mosquito Systematics. 22 (1)(1990): 15-23.
- Harvey, D. J. and Longino, J. "Myrmecophily and Larval Food Plants of Brephidium isophthalma pseudofea (Lycaenidae) in the Florida Keys." Journal of the Lepidopterists' Society. 43 (1989): 332-333.
- Hawkins, B. A. and Gagné, R. J. "Determinants of Assemblage Size for the Parasitoids of Cecidomyiidae (Diptera)." Oecologia. 81 (1989): 75-88.
- Henry, T. J. "Prepops cruciferus (Heteroptera: Miridae): A Neotropical Plant Bug Newly Discovered in the United States: Taxonomic Notes, Host Plants, and Distribution." Annals of the Entomological Society of America. 83 (1990): 15-17.
- Hilburn, D. J. and Gordon, R. D. "Coleoptera of Bermuda." Florida Entomologist. 72 (1989): 673-692.
- Hilburn, D. J.; Marsh, P. M.; and Schauff, M. E. "Hymenoptera of Bermuda." Florida Entomologist. 73 (1990): 161-176.
- Hodges, Elaine R. S. "Technical Answers." The Artist's Magazine. 6 (11)(1989): 36-38.
- _____. Book Review. A Handbook of Biological Illustration, Second Edition, by Frances W. Zweifel. GNSI Newsletter. (1)(1990): 6-7.
- _____. "Retouching Notes." Journal of Natural Science Illustration 1990. 1 (2)(1990): 17-18.
- Jupp, P. G. and Harbach, R. E. "Crossmating and Morphological Studies of Culex neavei and Culex perexiguus (Diptera: Culicidae) to Elucidate Their Taxonomic Status." Mosquito Systematics. 22 (1)(1990): 1-10.

- Keirans, J. E. and Litwak, T. R. "Pictorial Key to the Adults of Hard Ticks, Family Ixodidae (Ixodida: Ixodoidea), East of the Mississippi River." Journal of Medical Entomology. 26 (1989): 435-448.
- Kingsolver, J. M. "New World Bruchidae Past, Present, Future." In "Bruchids and Legumes: Economics, Ecology and Coevolution". Edited by K. Fujii et. al. (1990): 121-129.
- _____. "Biosystematics of the Genus Zabrotes of America North of Mexico (Coleoptera: Bruchidae)." Transactions of the American Entomological Society. 116 (1990): 135-174.
- Krombein, K. V. "Systematic Notes on Some Bethyilidae from Botswana: Pristocerinae (Hymenoptera: Aculeata)." Proceedings of the Entomological Society of Washington. 91 (1989): 620-631.
- _____. "Systematic Notes on Some Bethyilidae from Botswana: Epyrinae (Hymenoptera: Aculeata)." Proceedings of the Entomological Society of Washington. 92 (1990): 98-105.
- Kulasekera, V.; Knight, K. L.; and Harbach, R. E. "Aedes (Finlaya) axitiosus, a New Species of the Niveus Subgroup (Diptera: Culicidae) from East Malaysia." Mosquito Systematics. 22 (1)(1990): 26-33.
- LaSalle, J. and Schauff, M. E. "New Subfamily Placement for Some North American Eulophidae (Hymenoptera, Chalcidoidea)." Proceedings of the Entomological Society of Washington. 92 (1990): 282-285.
- Mathis, Wayne N. "A Review of the Beach Flies of the Caribbean and Gulf of Mexico (Diptera: Canacidae)." Proceedings of the Biological Society of Washington. 102 (3)(1989): 590-608.
- _____. "Diptera (Insecta) or True Flies of the Pitcairn Group (Ducie, Henderson, Oeno, and Pitcairn Islands)." Atoll Research Bulletin. 327 (1989): 1-15.
- Mathis, Wayne N. and Zatwarnicki, Tadeusz. "A Revision of the Western Palearctic Species of Athyroglossa (Diptera: Ephydriidae)." Transactions of the American Entomological Society. 16 (1)(1990): 103-133.
- Miller, D. R. "The State of Biological Diversity Knowledge in the United States, Preface." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab, and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 1 page.
- _____. "Phylogeny." In World Crop Pests. Armored Scale Insects, Their Biology, Natural Enemies and Control. Volume A (1990): 169-178.
- Nakahara, S. "Preliminary Study of Facetal Pigmentation in the Compound Eyes of Terebrantia (Thysanoptera)." Acta Phytopathologica et Entomologica Hungarica. 23 (1988): 321-329.
- _____. "Order Protura." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 1 page.
- _____. "Order Entotrophi: (Diplura)." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 1 page.

- Nakahara, S. "Order Thysanoptera." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 147-149.
- Newton, Jr., A. F. and Sabrosky, C. W. "Tachinidae Fleming, 1821 (Insecta: Coleoptera) and Tachinidae Robineau-Desvoidy, 1830 (Insecta: Diptera): Proposed Removal of Homonymy, and Tachyporinae MacLeay, 1825 (Insecta: Coleoptera): Proposed Conservation." International Commission of the Field Museum of Natural History. (1990): 16 pages.
- Nickle, D. "Order Zoraptera." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 1 page.
- _____. "Order Notoptera (Grylloblattodea)." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 59-60.
- _____. "Order Phasmatodea." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 61-62.
- _____. "Order Mantodea." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 71-72.
- _____. "Order Blattodea." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab, and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 73-75.
- _____. "Order Embiidina (Embioptera)." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab, and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 85-86.
- Nickle, D. A. and Sakai, S. "Order Dermaptera." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab, and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 81-83.
- Nickle, D. A. and Ross, E. S. "Order Isoptera." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab, and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 77-79.
- Norrbom, A. L. "NOTE. The Identity of the Genus Hexaresta Hering (= Hyponeothermara Hardy, n. syn.) (Diptera: Tephritidae)." Proceedings of the Entomological Society of Washington. 92 (1990): 109-110.

- Norrbom, A. L. "Notes on Zonosemata Benjamin (Diptera: Tephritidae) and the Status of Cryptodacus scutellatus Hendel (= Z. ica Steyskal syn. n.)." Annalen Naturhistorisches Museum Wien. 91 (1990): 53-55.
- O'Brien, P. J.; Stoetzel, M. B.; and Hardee, D. D. "NOTE. Verification of the Presence of Male and Oviparous Morphs of the Cotton Aphid in Mid-South Cotton (Gossypium hirsutum L.)." Journal of the Entomological Society. 25 (1990): 73-74.
- Peterson, B. V.; Durden, L. A.; Keirans, J. E.; and Taylor, P. M. "Some Ectoparasites of Bats From Halmahera Island, Indonesia." Entomological News. 101 (1990): 39-47.
- Peyton, E. L. "A New Classification for the Leucosphyrus Group of Anopheles (Cellia)." Mosquito Systematics. 21 (3)(1989): 197-205.
- Robbins, R. K. "Systematic Implications of Butterfly Leg Structures that Clean the Antennae." Psyche. 96 (1990): 209-222.
- Russell, L. M. and Stoetzel, M. B. "Anomalies in Cornicles of Aphids (Homoptera: Aphididae)." Proceedings of the Entomological Society of Washington. 92 (1990): 314-324.
- Shear, W. A.; Palmer, J. M.; Coddington, J. A.; and Bonamo, P. M. "A Devonian Spinneret: Early Evidence of Spiders and Silk Use." Science. 246 (1989): 79-481.
- Smith, D. R. "A New Xyela (Hymenoptera: Xyelidae) from Western United States." Entomological News. 101 (1990): 9-12.
- Smith, D. R. and McDearman, W. "A New Rhadinoceraea (Hymenoptera: Tenthredinidae) Feeding on Zigadenus (Liliaceae) from Southeastern United States." Entomological News. 101 (1990): 13-19.
- Spangler, Paul J. "A New Species of Halophilous Water-strider, Mesovelgia polhemusi, from Belize and a Key and Checklist of New World Species of the Genus (Heteroptera: Mesoveliidae)." Proceedings of the Biological Society of Washington. 103 (1)(1990): 86-94.
- _____. "A New Species and New Record of the Water-penny Genus Psephenops (Coleoptera: Psephenidae) from Costa Rica." Entomological News. 101 (3)(1990): 137-140.
- _____. "A New Species of Water Scavenger Beetle, Guyanobius simmonsorum, from Brazil (Coleoptera: Hydrophilidae)." Proceedings of the Entomological Society of Washington. 92 (3)(1990): 411-415.
- Spangler, Paul J. and Perkins, Philip D. "A Revision of the Neotropical Riffle Beetle Genus Stenhelmoides (Coleoptera: Elmidae)." Smithsonian Contributions to Zoology. 479 (1989): 1-63.
- Steck, G. J.; Carroll, L. E.; Celedonio-Hurtado, H.; and Guillen-Aguilar, J. "Methods for Identification of Anastrepha Larvae (Diptera: Tephritidae), and Key to 13 Species." Proceedings of the Entomological Society of Washington. 92 (1990): 333-346.
- Steyskal, G. C. "(Review of) The Torre-Bueno Glossary of Entomology Compiled by Stephen W. Nichols, et. al." Proceedings of the Entomological Society of Washington. 92 (1990): 173-175.
- _____. "A Note on Hagiobouctony." Taxon. 39 (1990): 243.
- Stoetzel, M. B. and Russell, L. M. "Ninth Report on Aphid-host Relationships at the Los Angeles State and County Arboretum (Homoptera: Aphididae)." Proceedings of the Entomological Society of Washington. 92 (1990): 106-108.
- Strickman, D. "Biosystematics of Larval Movement of Central American Mosquitoes and it's Use for Field Identification." Journal of American Mosquito Control Association. 5 (1989): 208-218.

- Strickman, D. and Pratt, J. "Redescription of Cx. corniger Theobald and Elevation of Culex (Culex) lactator Dyar and Knab from Synonymy Based on Specimens from Central America (Diptera: Culicidae)." Proceeding of the Entomological Society of Washington. 91 (1989): 551-574.
- Thompson, F. C. "Dipterists Ride the Third Wave." In Systematics of the North American Insects and Arachnids: Status and Needs. Virginia Agricultural Experiment Station Information Series. Edited by M. Kosztarab and C. W. Schaefer. Blacksburg, Virginia: Virginia Polytechnic Institute and State University. (1990): 179-201.
- _____. "NOTE. Palpada vinetorum (Fabricius)." Proceedings of the Hawaiian Entomological Society. 29 (1990): 15-16.
- Thompson, F. C.; Fee, F. D.; and Bezark, L. D. "Two Immigrant Synanthropic Flower Flies (Diptera: Syrphidae) New to North America." Entomological News. 101 (1990): 69-74.
- Wilkerson, R. C. "Elevation of An. (Ano.) chiriquienis from Synonymy with An. parapunctipennis, and Designation of Name Bearing Types for An. parapunctipennis and An. parapunctipennis guatemalensis." Mosquito Systematics. 21 (3)(1989): 178-187.
- _____. "Redescriptions of Anopheles punctimacula and An. malefactor (Diptera: Culicidae)." Journal of Medical Entomology. 27 (2)(1990): 225-247.
- Wilkerson, R. C. and Peyton, E. L. "Standardized Nomenclature for the Costal Wing Spots of the Genus Anopheles and Other Spotted-wing Mosquitoes (Diptera: Culicidae)." Journal of Medical Entomology. 27 (2)(1990): 207-224.
- Wilkerson, R. C. and Strickman, D. A. "Illustrated Key to the Female Anopheline Mosquitoes of Central America and Mexico." Journal of American Mosquito Control Association. 6 (1)(1990): 7-34.

Department of Invertebrate Zoology

- Aronson, R. B. "The Ecology of Octopus briareus Robson in a Bahamian Saltwater Lake." American Malacological Bulletin. 7 (1989): 47-56.
- _____. "A Community-level Test of the Mesozoic Marine Revolution Theory." Paleobiology. 15 (1989): 20-25.
- _____. "Brittlestar Beds: Low-predation Anachronisms in the British Isles." Ecology. 70 (1989): 856-865.
- _____. "Onshore-offshore Patterns of Human Fishing Activity." Palaios. 5 (1990): 88-93.
- Barbieri, R.; Ibanez, M. S. R.; Aranha, F. J.; Correia, M. M. F.; Reid, J. W.; and Turner, P. N. "Plancton, Producao Primaria e Alguns Fatores Fisico-quimicos de Dois Lagos da Baixada Maranhense." Revista Brasileira de Briologia. 49 (2)(1989): 399-408.
- Barnard, J. L. "Rectification of Halirages regis and H. huxleyanus (Crustacea: Amphipoda), from Marine Antarctica, with Description of a New Genus, Austroregia." Proceedings of the Biological Society of Washington. 102 (1989): 701-715, 7 figures.
- Barnard, J. L. and Barnard, C. M. "Index to Marine Gammaridea (Amphipoda) (Except Section Gammarida)." Smithsonian Institution, Division of Crustacea. (1990): 1-221.
- _____. "Index to Freshwater Gammaridea (Amphipoda) (Including Marine Species of Section Gammarida)." Smithsonian Institution, Division of Crustacea. (1990): 1-139.
- _____. "Geographic Index to Marine Gammaridea (Amphipoda)." Smithsonian

- Institution, Division of Crustacea. (1990): 1-139.
- Barnard, J. L. and Thomas, J. D. "Ensayara jumane, a New Species from Belize, Caribbean Sea (Amphipoda, Lysianassidae)." Proceedings of the Biological Society of Washington. 103 (1990): 120-126, 3 figures.
- Baumann, P. C.; Harshbarger, J. C.; and Hartman, K. J. "Diagnoses and Prevalence of Liver Tumore and Associated Age and Length Characteristics of Brown Bullhead from a Lake Erie Tributary." Science and the Total Environment. 94 (1990): 71-87.
- Bayer, F. M. "A New Isidid Octocoral (Coelenterata: Gorgonacea) from the Galapagos Rift." Boletim de Zoologia Universidade de Sao Paulo, Brazil. 10 (1989): 197-208.
- _____. "A New Isidid Octocoral (Anthozoa: Gorgonacea) from New Caledonia, with Descriptions of Other New Species from Elsewhere in the Pacific Ocean." Proceedings of the Biological Society of Washington. 103 (1)(1990): 205-228.
- _____. "Comments Upon Killing the Holy Cow." Taxon. 39 (2)(1990): 244.
- Bowman, T. E. "The High Frequency of Errors in Format in Manuscripts Submitted to the Proceedings of the Biological Society of Washington." Proceedings of the Biological Society of Washington. 102 (4)(1989): 1067-1068.
- Bowman, T. E. "Lovenula (Neolovenula) alluaudi (Guerne and Richard, 1890) in the Canary Islands (Copepoda: Calanoida: Paradiaptominae)." Bijdragen tot de Dierkunde. 59 (4)(1989): 239-241.
- Bowman, T. E. and Bieri, R. "Paraspadella anops, New Species, from Sagittarius Cave, Grand Bahama Island, the Second Troglotic Chaetognath." Proceedings of the Biological Society of Washington. 102 (3)(1989): 586-589.
- Bowman, T. E. and Lewis, J. J. "Occurrence of the Calanoid Copepod Eurytemora affinis (Poppe) in the Ohio River at Louisville, Kentucky." Journal of Crustacean Biology. 9 (1)(1989): 83-84.
- Bruce, N. L. and Bowman, T. E. "Species of the Parasitic Isopod Genera Ceratothoa and Glossobius (Crustacea: Cymothoidae) from the Mouths of Flying Fishes and Halfbeaks (Beloniformes)." Smithsonian Contributions to Zoology. 489 (1989): i-iii, 1-28.
- Cairns, S. D. "Asexual Reproduction in Solitary Scleractinia." Proceedings of the Sixth International Coral Reef Symposium. 2 (1989): 641-646, 1 figure.
- _____. "Discriminant Analysis of Indo-West Pacific Flabellum." Memoirs of the Association of Australasian Paleontology. 8 (1989): 61-68, 2 figures.
- _____. "A Revision of the Ahermatypic Scleractinia of the Philippine Islands and Adjacent Waters, Part 1." Smithsonian Contributions to Zoology. 486 (1989): 1-136, 42 plates.
- _____. "Antarctic Scleractinia." Theses Zoologicae 12 (Synopsis of the Antarctic Benthos 1). (1990): 1-78, 25 figures. Koeltz Scientific Books.
- Chace, F. A., Jr. "Mary J. Rathbun (1860-1943)." Journal of Crustacean Biology. 10 (1990): 165-167, 1 figure.
- _____. "Waldo L. Schmitt (1887-1977)." Journal of Crustacean Biology. 10 (1)(1990): 168-171, 1 figure.

- Child, C. A. "Pycnogonida of the Western Pacific Islands, VI. Sericosure cochleifovea, a New Hydrothermal Vent Species from the Marianas Back Arc Basin." Proceedings of the Biological Society of Washington. 102 (3)(1989): 732-737, 1 figure.
- _____. "Prototrygaeus jondanae, a New Species of Pycnogonid from Monterey Bay, California." Proceedings of the Biological Society of Washington. 103 (1)(1990): 157-160, 1 figure.
- _____. "Pycnogonida of the Western Pacific Islands, VIII. Recent Collections from Islands of the Great Barrier Reef, Australia." Proceedings of the Biological Society of Washington. 103 (2)(1990): 311-335, 6 figures.
- Clark, J. and Hart, Jr., C. W. "An Interdisciplinary Bibliography of Crayfishes (Astacoidea and Parastacoidea) from Aristotle through 1988." Smithsonian Institution, National Museum of Natural History, CD-ROM. 1 (1990).
- Cressey, R. "Belizia brevicauda, a New Genus and Species of Caligid Copepod from the Western Caribbean Sea." Systematic Parasitology. 15 (1990): 151-154.
- Fauchald, K. "The Second Annual Riser Lecture: Eclecticism and the Study of Polychaetes." Proceedings of the Biological Society of Washington. 102 (3)(1989): 742-752.
- Fauchald, K. and Yochelson, E. L. "A Tubicolous Animal from the Hunsruch Slate (Lower Devonian, Southern Germany)." Palaontologische Zeitschrift. 64 (1/2) (1990): 15-23.
- Felley, J. D.; Vecchione, M.; Gaston, G. R.; and Felley, S. M. "Habitat Selection by Demersal Nekton. Analysis of Videotape Data." N.E. Gulf Science. 10 (2)(1989): 69-84.
- Froggia, C. and Manning, R. B. "Checklist and Key to Adult Mediterranean Stomatopod Crustacea." In Biology of Stomatopods. Edited by E. A. Ferrero. Selected Symposia and Monographs U.Z.I. 3 (1989): 265-273. Mucchi Editore, Modena, Italy.
- Grygier, M. J. and Bowman, T. E. "The Correct Family-Level Name for the Cryptoniscid Isopods (Epicaridea)." Crustaceana. 58 (1)(1990): 27-32.
- Harasewych, M. G. "Shells: Jewels from the Sea." (1989): 224 pages. Rizzoli, New York, New York.
- _____. "Ovophagy in Anachis avara (Say, 1822) (Gastropoda: Columbellidae)." The Nautilus 104 (2)(1990): 76.
- Harrison-Nelson, E. and Bowman, T. E. "A Range Extension to the North for Macrochiridotea giambiagiae Torti and Bastida (Crustacea: Isopoda: Valvifers)." Proceedings of the Biological Society of Washington. 103 (1)(1990): 127-130.
- Harshbarger, J. C. and Clark, J. B. "Epizootiology of Neoplasms in Bony Fish of North America." Science of the Total Environment. 94 (1990): 1-32.
- Heard, R. W. and Manning, R. B. "Caecopilumnus crassipes (Tesch, 1918) (Decapoda) and Acanthosquilla multifasciata (Wood-Mason, 1895) (Stomatopoda), New to the Hawaiian Islands." Crustaceana. 59 (1)(1990): 105-107.
- Hershler, R. and Holsinger, J. R. "Zoogeography of North American Hydrobiid Cavesnails." Stygologia. 5 (1990): 5-16.
- Hershler, R.; Ponder, W. F.; and Jenkins, B. J. "An Endemic Radiation of Hydrobiid Snails from Artesian Springs in Northern South Australia: Their Taxonomy, Physiology, Distribution, and Anatomy." Malacologia. 31 (1989): 1-140.

- Hershler, R. and Thompson, F. G. "Antrorbis breweri, a New Genus and Species of Hydrobiid Cavesnail from Coosa River Basin, Northeastern Alabama." Proceedings of the Biological Society of Washington. 103 (1990): 197-204.
- Hershler, R. and Pratt, W. L. "A New Pyrgulopsis (Gastropoda: Hydrobiidae) from Southeastern California, with a Model for Historical Development of the Death Valley Hydrographic System." Proceedings of the Biological Society of Washington. 103 (1990): 279-299.
- Higgins, R. P. "Zelinkaderidae, a New Family of Cyclorhagid Kinorhyncha." Smithsonian Contributions to Zoology. 500 (1989): 1-26.
- Hobbs, Jr., H. H. "An Illustrated Checklist of the American Crayfishes (Decapoda: Astacidae, Cambaridae, and Parastacidae)." Smithsonian Contributions to Zoology. 480 (1989): iii, 1-236.
- Hobbs, Jr., H. H. and Hobbs, III, H. H. "New Locality Records for Two Poorly Known Mexican Freshwater Shrimps (Decapoda, Palaemonidea)." Crustaceana. 57 (2)(1989): 220-222.
- Hobbs, Jr., H. H. and Robison, H. W. "On the Crayfish Genus Fallicambarus (Decapoda: Cambaridae) in Arkansas, with Notes on the Fodiems Complex and Descriptions of Two New Species." Proceedings of the Biological Society of Washington. 102 (3)(1989): 651-697.
- Holthuis, L. B. and Manning, R. B. "Crabs of the Subfamily Dorippinae MacLeay, 1838, from the Indo-West Pacific Region (Crustacea: Decapoda: Dorippidae)." Researches on Crustacea. 3 (1990): 1-151. Carcinological Society of Japan.
- Kensley, B. "Marine Isopod Crustaceans from the St. Paul and Amsterdam Islands, Southern Indian Ocean." Bulletin du Museum National d'Histoire Naturelle, Paris. (4) 11 A1 (1989): 147-164. 8 figures.
- _____. "New Genera in the Thalassinidean Families Calocarididae and Axiidae (Crustacea: Decapoda)." Proceedings of the Biological Society of Washington. 102 (4) (1989): 960-967, 1 figure.
- Kensley, B. and Heard, R. W. "The Genus Axianassa (Crustacea: Decapoda: Thalassinidea) in the Western Atlantic and Eastern Pacific." Proceedings of the Biological Society of Washington. 103 (3)(1990): 558-572. 7 figures.
- Kensley, B. and Williams, A. B. "Axiopsis eximia, a New Thalassinidean Shrimp (Crustacea, Decapoda, Axiidae) from the Middle Eocene of South Carolina." Journal of Paleontology. 64 (5)(1990): 798-802.
- Kornicker, L. S. "Bathyal and Abyssal Myodocopid Ostracoda of the Bay of Biscay and Vicinity." Smithsonian Contributions to Zoology. 447 (1989): 1-134.
- Kornicker, L. S. and Iliffe, T. "Dantya ferox, a New Species of Myodocopid Ostracode from Niue, Central South Pacific (Crustacea: Ostracoda: Sarsiellidae)." Proceedings of the Biological Society of Washington. 102 (4)(1989): 901-911.
- Kornicker, L. S.; Yager, J.; and Morrison, D. "Ostracoda (Halocyprididae) from Anchialine Caves in the Bahamas." Smithsonian Contributions to Zoology. 495 (1990): 1-51.
- Manning, R. B. "Sanquerus, a Replacement Name for Posidon Herklots, 1851 (Crustacea, Decapoda, Portunidae)." Proceedings of the Biological Society of Washington. 102 (3)(1989): 698-700.

- Manning, R. B. "Zoogeographical Relationships of Stomatopod Crustacea from the Northern Arabian Sea." In Marine Science of the Arabian Sea. Proceedings of an International Conference. Edited by M.-F. Thompson and N. M. Tirmizi. (1989): 113-119. American Institute of Biological Sciences, Washington, D.C.
- _____. "Mortensenus minus, a New Genus and Species of Coronid Stomatopod from Mauritius." Journal of Crustacean Biology. 10 (1)(1990): 162-164.
- _____. "Studies on Systematics of Geryonid Crabs." In Geryonid Crabs and Associated Continental Sloop Fauna: A Research Workshop Report. Edited by W. J. Lindberg and E. L. Wenner. Florida Sea Grant College, Technical Paper 58 (1990): 1-2. Gainesville, Florida.
- _____. "Stomatopod Crustacea from the Persian Gulf, with the Description of a New Manningia." Steenstrupia. 16 (6)(1990): 93-108.
- Manning, R. B. and Hart, Jr., C. W. "The Occurrence of Panopeus lacustris Schramm in Marine Caves of Bermuda." Crustaceana. 57 (3)(1989): 313-315.
- Manning, R. B. and Reaka, M. L. "Preliminary Observations on the Biology of Coronis scolopendra at Fort Pierce, Florida." In Biology of Stomatopods. Edited by E. A. Ferrero. Selected Symposia and Monographs U.Z.I. 3 (1989): 213-219. Mucchi Editore, Modena, Italy.
- _____. "The Distribution of the Parasitic Gastropod, Caledoniella montrouzieri Soubrier, 1869 (Caledoniellidae), on Gonodactylid Stomatopod Crustaceans." The Raffles Bulletin of Zoology. 38 (1)(1990): 77-82.
- Manning, R. B.; Dawson, E. R.; and Webber, W. R. "A New Species of Chaceon from New Zealand (Crustacea: Decapoda: Geryonidae)." Proceedings of the Biological Society of Washington. 103 (3)(1990): 602-607.
- Manning, R. B.; Kropp, R. K.; and Dominguez, G. "Biogeography of Deep-Sea Stomatopod Crustacea, Family Bathysquillidae." Progress in Oceanology. (1990): 311-316.
- Manning, R. B.; Tavares, M. R.; and Albuquerque, E. F. "Chaceon ramosae, a New Deep-Water Crab from Brazil (Crustacea: Decapoda: Geryonidae)." Proceedings of the Biological Society of Washington. 102 (3)(1989): 646-650.
- Marten, G. G.; Astaiza, M. F.; Suarez, C. M.; and Reid, J. W. "Natural Control of Larval Anopheles albimanus by the Predator Mesocyclops (Copepoda: Cyclopoida)." Journal of Medical Entomology. 26 (6)(1989): 624-627.
- McKinstry, J. J.; Chapman, G. B.; Spoon, D. M.; and Peters, E. C. "The Occurrence of Bacterial Colonies in the Epidermis of the Tentacles of the Sea Anemone Aiptasia pallida (Anthozoa: Actinaria)." Transactions of the American Microscopical Society. 108 (1989): 239-244.
- Miller, J. E. and Pawson, D. L. "Hansenothuria benti, New Genus, New Species (Echinodermata: Holothuroidea) from the Tropical Western Atlantic: A Bathyal, Epibenthic Holothurian with Swimming Abilities." Proceedings of the Biological Society of Washington. 102 (4)(1989): 977-986.
- _____. "Swimming Sea Cucumbers (Echinodermata: Holothuroidea): A Survey, with Analysis of Swimming Behavior in Four Bathyal Species." Smithsonian Contributions to the Marine Sciences. 35 (1990): 1-18.

- Nakamura, K. and Child, C. A. "Pycnogonida of the Western Pacific Islands, VII. Some Rare Species from the Flores Sea, Indonesia." Proceedings of the Biological Society of Washington. 103 (2)(1990): 304-310, 1 figure.
- Nelson, D. R. and Higgins, R. P. "Tardigrada." In Soil Biology Guide. Edited by D. L. Dindal. (1990): 393-419. John Wiley & Sons, Inc., New York.
- Pawson, D. L. "Theodore Lyman, 1833-1897." In Echinoderm Studies. Edited by M. Jangoux and J. M. Lawrence. 3 (1989): 359-363. A. A. Balkema, The Netherlands.
- Peters, E. C. "Symbiosis to Pathology: Are the Roles of Microorganisms as Pathogens of Coral Reef Organisms Predictable from Existing Knowledge?" (Invited Status Review.) Proceedings of the 6th International Coral Reef Symposium Australia. 1 (1988): 205-210.
- Peters, E. C. and Yevich, P. P. "Histopathology of Ceriantheopsis americanus (Cnidaria: Ceriantharia) Exposed to Black Rock Harbor Dredge Spoils in Long Island Sound." Diseases of Aquatic Organisms. 7 (1989): 137-148.
- Petit, R. E. and Harasewych, M. G. "Catalogue of the Superfamily Cancellarioidea Forbes and Hanley, 1851 (Gastropoda: Prosobranchia)." The Nautilus. Supplement 1 (1990): 1-69.
- Reaka, M. L. and Manning, R. B. "Techniques for Sampling Stomatopoda in Benthic Environments." In Biology of Stomatopods. Edited by E. A. Ferrero. Selected Symposia and Monographs U.Z.I. 3 (1989): 251-263. Mucchi Editore, Modena, Italy.
- Reaka, M. L.; Manning, R. B.; and Felder, D. L. "The Significance of Macro- and Microhabitat for Reproduction in Reef-Dwelling Stomatopods from Belize." In Biology of Stomatopods. Edited by E. A. Ferrero. Selected Symposia and Monographs U.Z.I. 3 (1989): 183-198. Mucchi Editore, Modena, Italy.
- Rehder, H. A. "Clarification of the Identity of the Snail Margarites groenlandicus (Gmelin, 1791) (Gastropoda: Trochidae)." The Nautilus. 103 (4)(1990): 117-123. 13 figures, 1 table.
- _____. "Seashells." World of Nature Series. Gallery Books. (1990): 1-63, 109 color plates. W. H. Smith Publishers, Inc., New York, New York.
- Reid, J. W. "Translation of Obituary of Alceu Lemos de Castro." Journal of Crustacean Biology. 9 (3)(1989): 501-502.
- _____. "Translation of Obituary of Plinio Soares Moreira." Journal of Crustacean Biology. 9 (3)(1989): 503-504.
- Reid, J. W. "Letter to the Editor." Journal of the American Mosquito Control Association. 5 (4)(1989): 616-617.
- _____. "Stillman Wright (1898-1989)." Journal of Crustacean Biology. 9 (4)(1989): 680-683.
- _____. "Stillman Wright (1898-1989)." Monoculus Copepod Newsletter. (19)(1989): 4-10.
- _____. "Stillman Wright (1898-1989)." Carcinforme. Boletim Informativo da Sociedade Brasileira de Carcinologia 3 (2)(1989): 5-6.
- Reid, J. W. "Redescription and New Records of Trichodiptomus coronatus (G. O. Sars) (Copepoda; Calanoida; Diaptomidae) from Brazil." Proceedings of the Biological Society of Washington. 103 (1)(1990): 140-150.
- _____. "Canthocamptus s. l. (Elaphoidella) striblingi, New Species (Copepoda: Harpacticoida) from Costa Rica." Proceedings of the Biological Society of Washington. 103 (2)(1990): 336-340.

- Reid, J. W. "The Correct Name of a Common Copepod." Acta Limnologica Brasiliensia. 3 (2)(1990): 769-783.
- _____. "Copepoda (Crustacea) from Acidic Wetlands in the District of Columbia and Maryland, Including a Description of Acanthocyclops columbiensis, New Species." Transactions of the American Microscopical Society. 109 (2)(1990): 174-180.
- _____. "Taxonomic Bibliography for Free-Living North American Copepoda." Bulletin of the North American Benthological Society. (1990).
- Reid, J. W. and Bozelli, R. L. "Stillman Wright (1898-1989)." Boletim Informativo da Sociedade Brasileira de Limnologia. 10 (1989): 60-62.
- Reid, J. W.; Hare, S. G. F.; and Nasci, R. S. "Diacyclops navus (Crustacea: Copepoda) Redescribed from Louisiana, U.S.A." Transactions of the American Microscopical Society. 108 (4)(1989): 332-344.
- Reid, J. W. and Moreno, I. H. "Copepoda (Crustacea) from the Southern Pantanal, Brazil." Acta Limnologica Brasiliensia. 3 (2)(1990): 721-739.
- Roper, C. F. E. Book Review. "Traite de Zoologie. Anatomia, Systematique, Biologie." Pierre M. Grasse, Editor. Tome 5, fascicule 4, Cephalopods. Katharina Mangold, Editor. 1989 804pp. Science. 248 (1990): 898-899.
- Roper, C. F. E., and Lu, C. C. "Systematic Status of Lepidoteuthis, Pholidoteuthis, and Tetronychoteuthis (Cephalopoda; Oegopsida)." Proceedings of the Biological Society of Washington. 102 (3)(1989): 805-807.
- _____. "Comparative Morphology and Function of Dermal Structures in Oceanic Squids (Cephalopoda)." Smithsonian Contributions to Zoology. 493 (1990): 1-40.
- Roper, C. F. E. and Sweeney, M. J. "Nomenclatural Index of Recent Cephalopod Taxa. Abstract." The Western Society of Malacologists Annual Report. 22 (1990): 25.
- Silva, E. N. S.; Robertson, B.; Reid, J. W.; and Hardy, E. "Atlas de Copepodos Planctonicos, Calanoida e Cyclopoida (Crustacea) da Amazonia Brasileira. I. Represa de Curua-Una, Para." Revista Brasileira de Zoologia. 6 (4)(1990): 725-758.
- Solis-Weiss, V. and Fauchald, K. "Orbiniidae (Annelida: Polychaeta) from Mangrove Root-Mats in Belize, with a Review of Protoariciin Genera." Proceedings of the Biological Society of Washington. 102 (3)(1989): 772-792.
- Storch, V.; Higgins, R. P.; and Morse, M. P. "The Ultrastructure of the Body Wall of Meiopriapulus fijiensis (Priapulida)." Transactions of the American Microscopical Society. 108 (1989): 319-331.
- Vecchione, M. "Zooplankton Distribution in Three Estuarine Bayous with Different Sources of Anthropogenic Influence." Estuaries. 12 (3)(1989): 43-53.
- Ward, L. A. and Fauchald, K. "Literature on the Polychaeta (Annelida)." Smithsonian Institution, National Museum of Natural History CD-ROM. 1 (1990).
- Weerdt, W. H. de. "Phylogeny and Vicariance Biogeography of North Atlantic Chalinidae (Haplosclerida, Demospongiae)." Beaufortia. 39 (3)(1989): 55-88.
- _____. "The Marine Shallow-Water Chalinidae (Haplosclerida, Porifera) of the British Isles." In European Contributions to the Taxonomy of Sponges. Edited by W. C. Jones. Publications of the Sherkin Island Marine Station 1 (1990(1987)): 74-108.

- Williams, A. B.; Abele, L. G.; Felder, D. L.; Hobbs, Jr., H. H.; Manning, R. B.; McLauthlin, P. A.; and Perez Farfante, I. "Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Decapod Crustaceans." American Fisheries Society Special Publication. 17 (1989): 1-77.
- Williams, A. B. and Baba, K. "New Squat Lobsters (Galatheidae) from the Pacific Ocean: Mariana Back Arc Basin, East Pacific Rise, and Cascadia Basin." Fishery Bulletin, U.S. 87 (4)(1990): 899-910.
- Williams, A. B. and Boschi, E. E. "Panopeus marginatus, a New Crab from the Argentine Warm Temperate Subregion (Decapoda: Xanthidae)." Proceedings of the Biological Society of Washington. 103 (3)(1990): 598-601.
- Williams, A. B. and McDermott, J. J. "An Eastern United States Record for a Western Indo-Pacific Crab, Hemigrapsus sanguineus (Decapoda: Grapsidae)." Proceedings of the Biological Society of Washington. 103 (1)(1990): 108-109.
- Williams, A. B. and Ngoc-Ho, N. "Pomatogebia, a New Genus of Thalassinidean Shrimps from Western Hemisphere Tropics (Crustacea, Upogebiidae)." Proceedings of the Biological Society of Washington. 103 (3)(1990): 614-616.

Department of Mineral Sciences

- Abbott, Jr., R. N.; Burnham, C. W.; and Post, J. E. "Hydrogen in Humite Group Minerals: Structure Energy Calculations." American Mineralogist. 74 (1990): 1300-1306.
- _____. "Hydrogen in Humite Group Minerals: Structure Energy Calculations." EOS. 70 (1989): 349 (abstract).
- Abbott, Jr., R. N.; Post, J. E.; and Burnham, C. W. "Treatment of the Hydroxyl in Structure-Energy Calculations." American Mineralogist. 74 (1989): 141-150.
- Batiza, R.; Fox, P. J.; Vogt, P. R.; Cande, S. C.; Grindlay, N. R.; Melson, W. G.; and O'Hearn, T. J. "Morphology, Abundance, and Chemistry of Near-Ridge Seamounts in the Vicinity of the Mid-Atlantic Ridge @26° S." Journal of Geology. 97 (1989): 209-210.
- Bish, D. L. and Post, J. E. "Thermal Behavior of Complex, Tunnel-Structure Manganese Oxides." American Mineralogist. 74 (1989): 177-186.
- Bravo, J.; Barquero, J.; Fernandez, E.; Saenz, R.; and Melson, W. G. "Geomorfologia del Complejo Volcanico Tenorio." Bulletin de Vulcanologia. 20 (1989): 11-14.
- Buchwald, V. F. and Clarke, Jr., R. S. "Corrosion of Fe-Ni Alloys by Cl-Containing Akaganeite (β -FeOOH): The Antarctic Meteorite Case." American Mineralogist. 74 (1989): 656-667.
- Clarke, Jr., R. S. "Descriptions of Some Antarctic Iron Meteorites." In Field and Laboratory Investigations of Meteorites from Victoria Land and the Thiel Mountain Range, Antarctica, 1982-1983 and 1983-1984. Edited by U. B. Marvin and G. J. MacPherson. Smithsonian Contributions to the Earth Sciences. 28 (1989): 61-63.
- Delaney, P. T.; Fiske, R. S.; Miklius, A.; Okamura, A. T.; and Sako, M. K. "Deep Magma Body Beneath the Summit and Rift Zones of Kilauea Volcano, Hawaii." Science. 247 (1990): 1311-1316.
- Duffield, W. A. and Fiske, R. S. "A Teacher's Guide to the Film 'Inside Hawaiian Volcanoes'." U. S. Geological Survey Open File Report. 89-685 (1989): 22 pages.

- Dunn, P. J.; Braithwaite, R. S. W.; Roberts, A. C.; and Ramik, R. A. "Kegelite from Tsumeb, Namibia: A Redefinition." American Mineralogist. 75 (1990): 702-704.
- Dunn, P. J.; Francis, C. A.; Ramik, R. A.; Nelen, J. A.; and Innes, J. "Wiserite, an Occurrence at the Kombat Mine in Namibia, and New Data." American Mineralogist. 74 (1989): 1374-1376.
- Dunn, P. J.; Peacor, D. R.; Grice, J. D.; Hicks, F. F.; and Chi, P. H. "Wawayandaite, a New Calcium Manganese Beryllium Boron Silicate from Franklin, New Jersey." American Mineralogist. 75 (1990): 405-408.
- Dunn, P. J.; Peacor, D. R.; Nelen, J. A.; Ramik, R. A.; and Innes, J. "A sakhaite-like mineral from the Kombat Mine, Namibia." Mineralogical Record. 54 (1990): 105-108.
- Feather, R. C., II. "Parasite in Emerald." Lapidary Journal. (August 1990): 20.
- Fiske, R. S. Book Review. "Observations and Interpretation of Hawaiian Volcanism and Seismicity 1779-1955." EOS. (Mar. 6, 1990)
- Fiske, R. S. and Cashman, K. V. "Submarine Fallout Deposit in the Shirahama Group (Mio-Pliocene), Japan." IAVCEI General Assembly, New Mexico Bureau of Mines and Mineral Research Bulletin. 131 (1989): 92 (abstract).
- Fiske, R. S. and Shepard, J. B. "Twelve Years of Ground-Tilt Measurements on the Soufriere of St. Vincent, 1977-1989." Bulletin of Volcanology. 52 (1990): 227-241.
- Fredriksson, K.; Jarosewich, E.; and Wlotzka, F. "Study Butte: A Chaotic Chondrite Breccia with Normal H-group Chemistry." Zeitschrift fur Naturforschung. 44a (1989): 945-962.
- Fudali, R. "Analysis of Ferric and Ferrous Iron: A Cautionary Tale." 28th International Geological Congress Abstracts (1989): 1-516 (abstract).
- _____. "Bedrock Topography Beneath Antarctic Meteorite Stranding Surfaces." Lunar and Planetary Science Institute Technical Report. 90-03 (1990): 30.
- _____. "The Field Season in Victoria Land, 1983-1984." Smithsonian Contributions to the Earth Sciences 28 (1989): 23.
- Funk, V. A. and Melson, W. G. "Volcanological and Biological Observatory at Arenal Volcano: Alajuela Province, Costa Rica." Biotropica. 21 (1)(1989): 95-96.
- Goldstein, J. I.; Williams, D. B.; Zhang, J.; and Clarke, Jr., R. S. "Invar Alloys: Information from the Study of Iron Meteorites." In Physical Metallurgy of Controlled Expansion Invar-Type Alloys (1990): 67-84. Edited by K. C. Russell and D. F. Smith. The Minerals, Metals, and Materials Society.
- Grice, J. D. and Dunn, P. J. "Sclarite, a New Mineral from Franklin, New Jersey, with Essential Octahedrally and Tetrahedrally Coordinated Zinc: Description and Structure Refinement." American Mineralogist. 74 (1989): 1355-1359.
- _____. "Whiteite-(CaMnMg), a New Mineral Species from the Tip Top Pegmatite, Custer, South Dakota." Canadian Mineralogist. 27 (1989): 699-702.
- Grice, J. D.; Dunn, P. J.; and Ramik, R. A. "Jahnsite-(CaMnMn), a New Member of the Whiteite Group from Mangualde, Beira, Portugal." American Mineralogist. 75 (1990): 401-404.
- Heaney, P. J.; Post, J. E.; and Veblen, D. R. "A Study of Moganite in Microcrystalline Silica Varieties Using X-ray Powder Diffraction and Transmission Electron Microscopy." EOS. 71 (1990): 653 (abstract).

- Jarosewich, E. "Chemical Composition of Antarctic and Non-Antarctic Meteorites: A Comparison." Abstracts for the Workshop on Differences between Antarctic and Non-Antarctic Meteorites. (1989): 27-29 (abstract).
- Keen, M. J.; Klein, E. M.; and Melson, W. G. "Ocean-ridge Basalt Compositions Correlated with Bathymetry." Nature. 345 (1990): 423-426.
- Koeberl, C.; Fredriksson, K.; Goetzinger, M.; and Riemold, W. U. "Anomalous Quartz from the Roter Kamm Impact Crater, Namibia: Evidence for Post-Impact Hydrothermal Activity?" Geochimica et Cosmochimica Acta. 53 (1989): 2113-2118.
- Leavens, P. B.; White, J. S., and Nelen, J. A. "Zanazziite, a New Member of the Roscherite Group from Brazil." Mineralogical Record. 21 (1990): 413-417.
- Loss, R. D.; Lugmair, G. W.; MacPherson, G. J.; and Davis, A. M. "Isotope Anomalies in Vigarano CAI's --Hic et ubique." Lunar and Planetary Science XXI. (1990): 718-719 (abstract).
- MacPherson, G. J.; Crozaz, G.; and Lundberg, L. L. "The Evolution of a Complex Type B Allende Inclusion: An Ion Microprobe Trace Element Study." Geochimica et Cosmochimica Acta. 53 (1989): 2413-2427.
- MacPherson, G. J.; Davis, A. M.; and Grossman, J. N. "Refractory Inclusions in the Unique Chondrite ALH85085." Meteoritics 24 (1989): 297 (abstract).
- Mandarino, J. A.; Rachlin, A. L.; Dunn, P. J.; Le Page, Y.; Back, M. E.; Murowchick, B. L.; Ramik, R. A.; and Falls, R. B. "Redefinition of Volvokskite and Its Description from Sussex, New Brunswick." Canadian Mineralogist 28 (1990): 351-356.
- Mao, X. -Y.; Ward, B. J.; Grossman, L.; and MacPherson, G. J. "Chemical Compositions of Refractory Inclusions from the Vigarano and Leoville Carbonaceous Chondrites." Geochimica et Cosmochimica Acta. 54 (1990): 2121-2132.
- Melson, W. G. "Las Erupciones del Volcan Arenal 1 al 13 de Abril de 1989." Bulletin de Vulcanologia 20 (1989): 15-22.
- Melson, W. G.; Allan J. F.; Jerez, D.; Nelen, J.; Calavache, M. L.; Williams, S. N.; Fournelle, J.; and Perfit, M. "Water Contents, Temperatures and Diversity of the Catastrophic Eruption of Nevado del Ruiz, Colombia, November 13, 1985." Journal of Volcanology and Geothermal Research. 41 (1990): 97-126.
- Morris, D. E.; Asmar, N. G.; Nickel, J. H.; Sid, R. L.; Wei, J. Y. T.; and Post, J. E. "Stability of 124, 123, and 247 Superconductors." Physica C. 159 (1989): 287-294.
- Morris, D. E.; Asmar, N. G.; Wei, J. Y. T.; Nickel, J. H.; Sid, R. L.; Scott, J. S.; and Post, J. E. "Synthesis and Properties of the 2:4:7 Superconductors $R_2Ba_4Cu_7O_{15-x}$ (R=Y, Eu, Gd, Dy, Ho, Er)." Physical Review. 40 (1989): 11406-11409.
- Morris, D. E.; Nickel, J. H.; Wei, J. Y. T.; Asmar, N. G.; Scott, J. S.; Scheven, U. M.; Hultgren, C. T.; Markelz, A. G.; Post, J. E.; Heaney, P. J.; Veblen, D. R.; and Hazen, R. M. "Eight New High-Temperature Superconductors with the 1:2:4 Structure." Physical Review B. 39 (1989): 7347-7350.
- Peacor, D. R.; Dunn, P. J.; White, J. S., Jr.; Grice, J. D.; and Chi, P.H. "Lithiomarsturite, a New Member of the Pyroxenoid Group, from North Carolina." American Mineralogist. 75 (1990): 409-414.
- Pertlik, F. and Dunn, P.J. "Crystal Structure of Wiserite." American Mineralogist. 74 (1989): 1351-1354.

- Phipps, S. P.; Rahman, K.; Omar, G.; Feinstein, S.; Post, J. E.; and MacPherson, G. J. "Tectonothermal Evolution of a Fossil Subduction Zone, California Coast Ranges." Geological Society of America Abstracts with Programs. 21 (1989): A314 (abstract).
- Plotkin, H.; Buchwald, V. F.; and Clarke, R. S. Jr. "The Port Orford Meteorite Hoax." Meteoritics. 24 (1989): 316-317 (abstract).
- Post, J. E. "Crystal Structure Determinations of Three Synthesis-like Phases Using the Rietveld Method." Geological Society of America Abstracts with Programs. 21 (1989): A73 (abstract).
- Post, J. E. "Crystal Structures of Todorokite and Layer Manganese Oxides." American Chemical Society Abstracts. (1989) (invited abstract).
- Post, J. E. and Bish, D. L. "Rietveld Refinement of the Coronadite Structure." American Mineralogist. 74 (1989): 913-917.
- Post, J. E. and Bish, D. L. "Rietveld Refinements of Crystal Structures Using Powder X-ray Diffraction Data." In Modern Powder Diffraction. (1989): 277-308. Bish, D. L., and Post, J. E., Editors. Washington, D. C.: Mineralogical Society of America.
- Post, J. E. and Ross, D. R. "Rietveld Refinements of Two Coexisting Ramsdellite Phases." EOS. 70 (1989): 352 (abstract).
- Post, J. E. and Veblen, D. R. "Crystal Structure Determinations for Na-, K- and Mg-birnessites using TEM and the Rietveld Method." Clay Minerals Society 26th Annual Meeting Abstracts. 55 (1989) (abstract).
- Post, J. E. and Veblen, D. R. "Crystal Structure Determinations of Three Synthetic Birnessites using TEM and the Rietveld Method." American Mineralogist. 75 (1990): 477-489.
- Roberts, A. C.; Sturman, B. D.; Dunn, P. J.; and Roberts, W. L. "Pararobertsite, $\text{Ca}_2\text{Mn}^{3+}_3(\text{PO}_4)_3\text{O}_2 \cdot 3\text{H}_2\text{O}$, a New Mineral Species from the Tip Top Pegmatite, Custer County, South Dakota, and Its Relationship to Robertsite." Canadian Mineralogist. 27 (1989): 451-455.
- Simkin, T. S. "Notable Volcanoes of the World." In AGI Data Sheets for Geology in the Field, Laboratory, and Office, Third Edition (1990): 84.1-84.7. Compiled by J. T. Dutro, Jr.; R. V. Dietrich; and R. M. Foose. Washington, D.C.: American Geological Institute.
- Sorensen, S. S. "Geochemical Evolution of High-T Hydrothermal Fluids in a Paleo-Subduction Zone." Goldschmidt Conference Abstracts. (1990): 82 (abstract).
- _____. "Metasomatism and Migmatization of Garnet Amphibolites, Catalina Schist, California: Petrologic and Geochemical Evidence for Fluid-Mediated Mass Transfer During Early Stages of Subduction." Proceedings of the Third International Eclogite Conference. (1990).
- _____. "Trace Element Effects of the Initiation of Subduction: Catalina Schist, Southern California." Geological Society of America Abstracts with Programs. 21 (6)(1989): A216 (abstract).
- Sorensen, S. S. and Grossman, J. N. "Enrichment of Trace Elements in Garnet Amphibolites from a Paleo-Subduction Zone: Catalina Schist, Southern California." Geochemica et Cosmochimica Acta. 53 (1989): 3155-3177.
- Sylvester, P. J.; Grosman, L.; and MacPherson, G. J. "Chemical Compositions of Leoville and Vigarano Inclusions." Lunar and Planetary Science XXI. (1990): 1231-1232 (abstract).
- Tamura, Y.; Koyama, M.; and Fiske, R. S. "Hot Pyroclastic Debris Flow in the Shallow Submarine Shirahama Group (Mio-Pliocene), Japan." IAVCEI General Assembly, New Mexico Bureau of Mines and Mineral Research Bulletin. 131 (1989): 265 (abstract).

- Vistisen, L.; Roy-Poulsen, N. O; and Clarke, Jr., R. S. "Corrosion of the Santa Catharina Meteorite." Meteoritics. 24 (1989): 335 (abstract).
- Walenta, K. and Dunn, P. J. "Camgasite, ein Neues Calcium-Magnesiumarsenatmineral der Zusammensetzung $\text{CaMg}(\text{AsO}_4)(\text{OH}) \cdot 5\text{H}_2\text{O}$ von Wittichen im Mitteren Schwarzwald." Der Aufschluss. 40 (1989): 369-372.
- White, J. S. "Book Review of Encyclopedia of Minerals, 2nd ed. (by W. L. Roberts, T. J. Campbell, and G. R. Rapp, Jr., 1989)." In Gems and Gemology. 26 (Summer 1990): 169-170.
- _____. "In Memoriam: Dean A. McCrillis." Rocks and Minerals 64 (1989): 418-419.
- _____. "Zoned Eosphorite from the Lavra da Ilha Pegmatite, Taquaral, Brazil." Mineralogical Record. 21 (1990): 418-422.
- White, J. S. and Claffy, E. W. "Described Mineral Specimens from Mexico in the U. S. National Museum of Natural History." Boletim de Mineralogia. 4 (1989): 55-75.
- White, J. S. and Cook, R. B. "Amethyst Occurrences of the Eastern United States." Mineralogical Record. 21 (1990): 203-213.
- Wise, M. A. "Compositional Features of Sarcopside-graftonite and Sarcopside-triphylite Intergrowths from Granitic Pegmatites." V. M. Goldschmidt Conference, Programs and Abstracts (1990): 92 (abstract).
- _____. "Morphology of Graftonite, Triphylite and Sarcopside Exsolution Intergrowths from Granitic Pegmatites." Geological Association of Canada-Mineralogical Association of Canada Program with Abstracts. 15 (1990): A142 (abstract).
- Wise, M. A. and Cerny, P. "Beusite-triphylite intergrowths from the Yellowknife Pegmatite Field, Northwest Territories." Canadian Mineralogist. 28 (1990): 133-139.
- Wise, M. A.; Hawthorne, F. C.; and Cerny, P. "Crystal Structure of a Ca-rich Beusite from the Yellowknife Pegmatite Field, Northwest Territories." Canadian Mineralogist. 28 (1990): 141-146.
- Zuber, M.; Plescia, J.; James, O. B.; and MacPherson, G. J. Editors. "Planetary Geosciences, 1988." National Aeronautics and Space Administration. SP-498 (1989).

Department of Paleobiology

- Abu-Zeid, M. M. and Stanley, D. J. "Temporal and Spatial Distribution of Clay Minerals in the Late Quaternary Deposits of the Nile Delta, Egypt." Journal of Coastal Research. 6 (3)(1990): 677-698.
- Barrera, E. and Huber, B. T. "Evolution of Antarctic Waters During the Maestrichtian: Foraminifer Oxygen and Carbon Isotope Ratios, Leg 113." In Proceedings of the Ocean Drilling Program - Scientific Reports. 113 (1990): 813-827. Edited by P. F. Barker; J. P. Kennett; S. B. O'Connell; and N. G. Pisias. College Station, Texas: Ocean Drilling Program, 1033 pages.
- Behrensmeyer, A. K. "Transport/Hydrodynamics of Bones." In Palaeobiology: A Synthesis. Edited by D. E. G. Briggs and P. R. Crowther. (1990): 232-235. Oxford: Blackwell Scientific Publications. 608 pages.
- Behrensmeyer, A. K. and Badgley, C. E. "Foreword." In Recent Vertebrate Carcasses and Their Paleobiological Implications. (1989): vii-x. By Johannes Weigelt (1927); translation by Judith Schaefer (1989). Chicago: University of Chicago Press, 296 pages.

- Behrensmeyer, A. K.; Gordon, K. D.; and Yanagi, G. T. "Non-human Bone Modification in Miocene Fossils from Pakistan." In Bone Modification (Proceedings of First International Conference on Bone Modification). (1989): 99-120. Edited by R. Bonnicksen and M. H. Sorg. Orono, Maine: Center for the Study of the First Americans, 535 pages.
- Berdan, J. M. "The Silurian and Early Devonian Biogeography of Ostracodes in North America." In Palaeozoic Palaeogeography and Biogeography: The Geological Society Memoir. (12)(1990): 223-231. Edited by W. S. McKerrow and C. R. Scotese. London: The Geological Society, 435 pages.
- Berta, A. and Ray, C. E. "Skeletal Morphology and Locomotor Capabilities of the Archaic Pinniped *Enaliarctos mealsi*." Journal of Vertebrate Paleontology. 10 (2)(1990): 141-157.
- Buzas, M. A. and Gibson, T. G. "Spatial Distribution of Miocene Foraminifera at Calvert Cliffs, Maryland." Smithsonian Contributions to Paleobiology. (68)(1990): 35 pages.
- Emry, R. J. "A Tiny New Eocene Ceratomorph and Comments on "Tapiroid" Systematics." Journal of Mammalogy. 70 (4)(1989): 794-804.
- _____. "Mammals of the Bridgerian (Middle Eocene) Elderberry Canyon Local Fauna of Eastern Nevada." In Dawn of the Age of Mammals in the Northern Part of the Rocky Mountains Interior, North America: Geological Society of America Special Paper. 243 (1990): 187-210. Edited by T. M. Bown and K. D. Rose. Boulder, Colorado: Geological Society of America. 245 pages.
- Emry, R. J. and Korth, W. W. "Rodents of the Bridgerian (Middle Eocene) Elderberry Canyon Local Fauna of Eastern Nevada." Smithsonian Contributions to Paleobiology. (67)(1990): 14 pages.
- Huber, B. T. "Maestrichtian Planktonic Foraminifer Biostratigraphy of the Maud Rise (Weddell Sea, Antarctica): ODP Leg 113 Holes 689B and 690C." In Proceedings of the Ocean Drilling Program - Scientific Reports. 113 (1990): 489-513. Edited by P. F. Barker; J. P. Kennett; S. B. O'Connell; and N. G. Pisias. College Station, Texas: Ocean Drilling Program, 1033 pages.
- Hueber, F. M.; Bothner, W. A.; Hatch, Jr., N. L.; Finney, S. C.; and Aleinikoff, J. N. "Devonian Plants from Southern Quebec and Northern New Hampshire and the Age of the Connecticut Valley Trough." American Journal of Science. 290 (4)(1990): 360-395.
- Jackson, J. B. C. and Cheetham, A. H. "Evolutionary Significance of Morphospecies: A Test with Cheilostome Bryozoa." Science. 248 (4955)(1990): 579-583.
- Macintyre, I. G. and Adey, W. H. "Buck Island Bar, St. Croix, USVI: A Reef That Cannot Catch Up With Sea Level." Atoll Research Bulletin. (336)(1990): 1-7.
- MacinHP LaserJet Series IIPLASEII.PRSymposium, Townsville, Australia, 8th-12th August 1988. 1 (1989): 263-272. Townsville, Australia: 6th International Coral Reef Symposium Executive Committee, 286 pages.
- Mamay, S. H. "*Charliea manzanitana*, n. gen., n. sp., and Other Enigmatic Parallel-veined Foliar Forms from the Upper Pennsylvanian of New Mexico and Texas." American Journal of Botany. 77 (7)(1990): 858-866.
- McDonald, H. G. and Ray, C. E. "The Extinct Sloth, *Megalonyx* (Mammalia: Xenarthra), from the United States Mid-Atlantic Continental Shelf." Proceedings of the Biological Society of Washington. 103 (1)(1990): 1-5.

- Neuman, R. B. and Bruton, D. L. "Brachiopods and Trilobites from the Ordovician Lower Hovin Group (Arenig/Llanvirn), Hølanda Area, Trondheim Region, Norway: New and Revised Taxa and Paleogeographic Interpretation." Norges Geologiske Undersøkelse Bulletin. 414 (1989): 49-89.
- Neuman, R. B.; Palmer, A. R.; and Dutro, Jr., J. T. "Paleontological Contributions to Paleozoic Reconstructions of the Appalachians." In The Appalachian-Ouachita Orogen in the United States: The Geology of North America. Volume F-2 (1989[1990]): 375-384. Edited by R. D. Hatcher, Jr., W. A. Thomas, and G. W. Viele. Boulder, Colorado: The Geological Society of America, 767 pages.
- Sohn, I. G. "Video Recording in the Study of Living Ostracoda: Techniques and Preliminary Results." In Ostracoda, Global Bioevents in Earth History - Transactions Tenth International Symposium on Ostracoda, Aberystwyth, Wales, July 25-30, 1988 (1990): 591-602. Edited by R. C. Whatley and C. A. Maybury. London: Chapman and Hall for the British Micropalaeontological Society, 621 pages.
- Sohn, I. G. and Kornicker, L. S. "Ultrastructure of Myodocopid Shells (Ostracoda)." In Evolutionary Biology of Ostracoda, its Fundamentals and Applications. (1989): 243-258. Edited by T. Hanai, N. Ikeya, and K. Ishizaki. Tokyo: Kodansha Press, 1356 pages.
- Sohn, I. G. and Rocha-Campos, A. C. "Late Paleozoic (Gondwanan) Ostracodes in the Corumbataí Formation, Paraná Basin, Brazil." Journal of Paleontology. 64 (1)(1990): 116-128.
- Stanley, D. J. "Sediment Transport on the Coast and Shelf Between the Nile Delta and Israel Margin as Determined by Heavy Minerals." Journal of Coastal Research. 5 (4)(1989): 813-828.
- _____. "The Nile Delta and Global Change." International Union for Quaternary Research Newsletter. 11 (1989): 27-31.
- _____. "Med Desert Theory is Drying Up." Oceanus. 33 (1)(1990): 14-23 and 54-55.
- _____. Review of "Pioneers of Maltese Geology," by G. Z. Maempel. Earth Sciences History. 9 (1)(1990): 79-80.
- Stanley, D. J. "Recent Subsidence and Northeast Tilting of the Nile Delta, Egypt." Marine Geology. 94 (1/2)(1990): 147-154.
- Thomas, E.; Barrera, E.; Hamilton, N.; Huber, B. T.; Kennett, J. P.; O'Connell, S. B.; Pospichal, J. J.; Spiess, V.; Stott, L. D.; Wei, W.; and Wise, S. W., Jr. "Upper Cretaceous-Paleogene Stratigraphy of Sites 689 and 690, Maud Rise (Antarctica)." In Proceedings of the Ocean Drilling Program - Scientific Reports. 113 (1990): 901-914. Edited by P. F. Barker; J. P. Kennett; S. B. O'Connell; and N. G. Pisias. College Station, Texas: Ocean Drilling Program, 1033 pages.
- Townsend, R. A. and Adey, W. H. "Morphology of the Caribbean Alga: *Goniolithon improcerum* Foslie et Howe in Foslie (Corallinaceae, Rhodophyceae)." Botanica Marina. 33 (1)(1990): 99-116.
- Tracey, Jr., J. I. "Surveying the Nomenclature of Geologic Time." Earth Sciences History. 8 (2)(1989): 183-189.
- Tuross, N. C.; Behrensmeier, A. K.; and Eanes, E. D. "Strontium Increases and Crystallinity Changes in Taphonomic and Archaeological Bone." Journal of Archeological Science. 16 (6)(1989): 661-672.
- Webers, G. F. and Yochelson, E. L. "Late Cambrian Molluscan Faunas and the Origin of the Cephalopoda." In Origins and Evolution of the Antarctic Biota: Geological Society Special Publication. 47 (1989): 29-42. Edited by J. A. Crane. London: The Geological Society, 322 pages.

- Whitmore, Jr., F. C. "Memorial to Esther Aberdeen Holm, 1904-1984." Memorial Volume, Geological Society of America. 20 (1990): 9-12.
- Yochelson, E. L. "Reconsideration of Possible Soft Parts in Dacryoconarids (incertae sedis) from the Hunsrück-Schiefer in Western Germany." Senckenbergiana Lethaea. 69 (5/6)(1989): 381-390.
- _____. "Introduction [to symposium issue]." Earth Sciences History. 8 (2)(1990): 100.
- Yochelson, E. L. "'Geologic Time' as Calculated by C. D. Walcott." Earth Sciences History. 8 (2)(1989): 150-158.

Department of Vertebrate Zoology

- Arita, H. T. and Wilson, D. E. "Operación Tequila: Los Murciélagos Narigudos y el Agave." México Desconocido. 13 (1990): 25-31.
- Banks, Richard C. "Taxonomic Status of the Coquette Hummingbird of Guerrero, Mexico." Auk. 107 (1990): 191-192.
- _____. "Geographic Variation in the Yellow-billed Cuckoo: Corrections and Comments." Condor. 92 (2)(1990): 538.
- _____. "Taxonomic Status of the Rufous-bellied Chachalaca." Condor. 92 (1990): 749-753.
- Banks, Richard C. and Calder III, W. A. "Did Lewis and Clark Discover the Broad-tailed Hummingbird (Selasphorus platyceracus)?" Archives of Natural History. 16 (1989): 243-244.
- Bateman, R.; Goddard, I.; O'Grady, R.; Funk, V. A.; Mooi, R.; Kress, W. J.; and Cannell, Peter. "Speaking of Forked Tongue: The Feasibility of Reconciling Human Phylogeny and the History of Language." Current Anthropology. 31 (1)(1990): 1-24.
- Beehler, Bruce M. "The Birds of Paradise." Scientific American. (December 1989): 116-123.
- Böhlke, E. B.; Böhlke, J. E.; Leiby, M.; McCosker, J. E.; Bertelsen, E.; Robins, C. H.; Robins, C. R.; Smith, D. G.; Tighe, K. A.; Nielsen, J. G.; and Hulet, W. H. Fishes of the Western North Atlantic, Part 9, Vol. 1: Orders Anguilliformes and Saccopharyngiformes; Vol. 2: Leptocephali. (1989).
- Boulay, M. C. and Robbins, C. B. "Epomophorus gambianus." Mammalian Species. 344 (1989): 1-5.
- Browning, M. R. "The Correct Citation and Spelling of Ptiliogonys and Type Locality of Ptiliogonys cinereus." Auk. 106 (1989): 743-746.
- _____. "Taxa of North American Birds Described from 1957 to 1987." Proceedings of the Biological Society of Washington. 103 (2)(1990): 432-451.
- _____. "Erroneous Emendations to Names Proposed by Hekstra (Strigidae: Otus)." Proceedings of the Biological Society of Washington. 103 (1990): 452.
- Buden, Donald W. and Olson, Storrs L. "The Avifauna of the Cayeries of Southern Cuba, with the Ornithological Results of the Paul Bartsch Expedition of 1930." Smithsonian Contributions to Zoology. 477 (1989): 34 pages, 3 figures, 7 tables.
- Cadle, J. E. and McDiarmid, R. W. "Two New Species of Centrolenella (Anura: Centrolenidae) from Northwestern Peru." Proceedings of the Biological Society of Washington. 103 (3)(1990): 746-768.

- Carleton, M. D. and Musser, G. G. "Systematic Studies of Oryzomyine Rodents (Muridae, Sigmodontinae): A Synopsis of Microryzomys." Bulletin of the American Museum of Natural History. 191 (1989): 1-83.
- Clapp, Roger B. Review of: Helping and Communal Breeding in Birds, by J. L. Brown. North American Bird Bander. 14 (4)(1989): 123.
- _____. Review of: The Facts on File Field Guide to North Atlantic Shorebirds, by R. J. Chandler. Naturalist Review. Winter (1990): 9.
- Clapp, Roger B. and Schipper, W. L. "New Records of Birds for Kwajalein Atoll, Marshall Islands." 'Elepaio. 50 (2)(1990): 11-14.
- Collette, Bruce B. "Problems with Grey Literature in Fishery Science." In Writing for Fishery Journals. Edited by J. Hunter. American Fisheries Society, Bethesda, Maryland. (1990): 27-31.
- _____. Gamefish Profile. "Thunnus obesus: The Bigeye Tuna." 1990 Big Game Fishing Annual. (1990): 97-99.
- Crow, Gerald L.; Howe, Jeffrey C.; Uchida, Senzo; Kawolnick, Steven; Wisner, Martin G.; and Caira, Janine N. "Protrusion of the Valvular Intestine Through the Cloaca in Sharks of the Family Carcharhinidae." Copeia. 1 (1990): 226-229.
- de Pinna, Mario C. C. and Starnes, Wayne C. "A New Genus and Species of Sarcoglanidinae from the Rio Mamore, Amazon Basin, with Comments on Subfamilial Phylogeny (Teleostei, Trichomycteridae)." Journal of Zoology, London. 222 (1990): 75-88.
- Dixon, J. R. "A Key and Checklist to the Neotropical Snake Genus Liophis with Country Lists and Maps." Smithsonian Herpetological Information Service. 79 (1989).
- Emmons, L. H. "Ecological Considerations on the Farming of Game Animals: Capybaras Yes, Pacas No." Vida Silvestre Neotropica. 2 (1989): 54-55.
- Emmons, L. H. and Feer, Francios. Neotropical Rainforest Mammals: A Field Guide. University of Chicago Press, Chicago, Illinois (1990).
- Emmons, L. H.; Sherman, P.; Bolster, D.; Goldizen, A.; and Terborgh, J. "Ocelot Behavior in Moonlight." In Advances in Neotropical Mammalogy. Edited by K. H. Redford and J. F. Eisenberg. Sandhill Crane Press, Gainesville, Florida, ix + 614 pp. (1990): 233-242.
- Ericson, P. G. P. "Osteological Analysis of Faunal Remains from Kolsvidja, Sund Parish, Aland Province, Finland." Finskt Museum, 1988. (in English). (1989): 33-40.
- Farraris, C. J.; Machado-Allison A.; Mago-Leccia, F.; Nelson G.; Royero R.; Vari, R. P.; and Weitzman, S. H. "Final Report on the Fishes Collected at Cerro de la Neblina February 5-23, 1984." In Cerro de la Neblina Resultados de la Expedicion 1983-1987. Caracas. (1989): 603-621.
- Flores, G. and McDiarmid, R. W. "Two New Species of South American Centrolenella (Anura: Centrolenidae) Related to C. mariae." Herpetologica. 45 (4)(1989): 401-411.
- Ford, L. and Hoffmann, R. S. "Potos flavus." Mammalian Species. 321 (1989): 9 pages.
- Foster, Mercedes S. Review of: No Woman Tenderfoot, by H. Kofalk. Wilson Bulletin. 102 (1990): 562-563.
- Foster, Mercedes S. and Cannell, P. F. "Bird Specimens and Documentation: Critical Data for a Critical Resource." Condor. 92 (1990): 279-285.
- Foster, Mercedes S.; Lopez, Nancy E.; and Escobar, M. Elena. "Observations of a Nest of Red-crowned Ant-tanagers in Paraguay." Journal of Field Ornithology. 60 (4)(1989): 459-468.

- Fritts, Thomas H.; McCoid, M. J.; and Haddock, R. L. "Risks to Infants on Guam from Bites of the Brown Tree Snake." American Journal of Tropical Medicine and Hygiene. 42 (6)(1990): 602-611.
- Gardner, Alfred L. "Two New Mammals from Southern Venezuela and Comments on the Affinities of the Highland Fauna of Cerro de la Neblina." In Advances in Neotropical Mammalogy. Edited by K. H. Redford and J. F. Eisenberg. Sandhill Crane Press, Gainesville, Florida. (1989): 411-424. ix + 614 pages.
- Garvey, Kevin J.; Oberste, M. Steven; Elser, John E.; Braun, Michael J.; and Gonda, Matthew A. "Nucleotide Sequence and Genome Organization of Biologically Active Proviruses of the Bovine Immunodeficiency-like Virus." Virology. 175 (1990): 391-490.
- Glass, P. O.; Reichel, J. D.; Lemke, T. O.; Clapp, R. B.; Wiles, G. J.; Aldan, D. T.; and Pratt, T. K. "New Migrant and Vagrant Bird Records for the Mariana Islands, 1978-1988." Micronesica. 23 (1)(1990): 67-89.
- Gotelli, N. G. and Graves, G. R. "Body Size and the Occurrence of Avian Species on Land-bridge Islands." Journal of Biogeography. 17 (1990): 315-325.
- Graves, G. R. "Systematics of the 'Green-throated Sunangels' (Aves: Trochilidae): Valid Taxa or Hybrids?" Proceedings of the Biological Society of Washington. 103 (1990): 6-25.
- _____. "Function of Crest Displays in Royal Flycatchers (Onychorhynchus)."
Condor. 92 (1990): 522-524.
- Graves, G. R. and Zusi, R. L. "Avian Body Weights from the Lower Rio Xingu, Brazil." Bulletin of the British Ornithologists' Club. 110 (1990): 20-25.
- _____. "An Intergeneric Hybrid Hummingbird (Heliodoxa leadbeateri x Heliangelus amethysticollis) from Northern Colombia." Condor. 92 (1990): 754-760.
- Handley, Jr., C. O. (Review of) "Mammals of the Carolinas Virginia and Maryland," by W. D. Webster, J. F. Parnell, and W. C. Biggs, Jr. Bulletin of the Association of Southeastern Biologists. 34 (1987): 171-172.
- _____. "Specimen Preparation." In Ecological and Behavioral Methods for the Study of Bats. Edited by T. H. Kunz. Smithsonian Institution Press, Washington, D. C. (1989): 437-457.
- _____. "Christmas Bird Count: Lewisburg, WV (1988)." American Birds. 43 (4)(1989): 872.
- Handley, Jr., C. O. "The Artibeus of Gray 1838." In Advances in Neotropical Mammalogy. Edited by K. H. Redford and J. F. Eisenberg. Sandhill Crane Press, Gainesville, Florida, ix + 614 pages. (1989): 443-468.
- Hoffmann, R. S. English translation of: Mammals of the Soviet Union. Vol. 1, Odd-toed and Even-toed Ungulates. Edited by Mlekopitayushchie Sovetskovo Soyuz, V. G. Heptner, and N. P. Naumov. Amerind Press, New Delhi (1988).
- _____. "List of birds." In Voyage to Hudson Bay, Greenland and Iceland, August 20-September 4, 1988. Expedition log. Edited by E. Park. 28 pages. (1988): 21-25.
- _____. "Foreword." In Weasels, Civets, Mongooses, and Their Relatives. Edited by A. Schreiber et al. IUCN. IV + 99 pages. (1989).
- _____. "The Tibetan Plateau Fauna, a High Altitude Desert Associated with the Sahara-Gobi." Abstract, Fifth International Theriological Congress. Rome, Italy (1989): 738.

- Höfmann, R. S. "Building a Circumpolar Database on Biological Diversity of Arctic Organisms." In Arctic Research. Advances and Prospects. Part 2. Nauka Press, Moscow. (1989): Pt 1: 1-366; Pt 2: 1-447.
- Ineich, Ivan and Zug, George R. "Observations on the Biology and Morphology of Ogmodon vitianus -- The Fijian Terrestrial Elapid." Prog. Ann. Mtg. HL/SSAR. (1990): 96.
- Johnson, G. David and Brothers, Edward B. "Acanthemblemaria paula, a New Diminutive Chaenopsid (Pisces: Blennioidei) from Belize, with Comments on Life History." Proceedings of the Biological Society of Washington. 102 (4)(1989): 1018-1030.
- Johnson, G. David and Fritzsche, R. A. "Graus nigra Philippi, an Omnivorous Girellid, with Comments on Relationships of the Girellidae (Pisces:Perciformes)." Proceedings of the Academy of Natural Sciences of Philadelphia. 141 (1989): 1-27.
- Johnson, G. David and Washington, B. B. "Zanclidae -- Moorish Idol." In The Larvae of Indo-Pacific Shorefishes. Edited by J. M. Leis and T. Trnski. New South Wales University Press and University of Hawaii Press. (1989): 285-290.
- Kalb, Heather and Zug, George R. "Age Estimates for a Population of American Toads Bufo americanus (Salientia: Bufonidae), in Northern Virginia." Brimleyana 16 (1990): 79-86.
- Kay, R. F.; Thorington, Jr., R. W.; and Houde, P. "Eocene Plesiadapiform Shows Affinities with Flying Lemurs Not Primates." Nature. 345 (6273)(1990): 342-344.
- Kirsh, J. A. W., Krajewski, C.; Springer, M.; Aplin, K.; Archer, M.; and Dickerman, A. W. "DNA-DNA Hybridization Studies of Carnivorous Marsupials. I. Intergeneric Relationships Among Bandicoots (Marsupialia: Peramelidae)." Journal of Molecular Evolution. 30 (1990): 434-448.
- Krajewski, C. "Phylogenetic Relationships Among Cranes (Gruiformes: Gruidae) Based on DNA Hybridization." Auk. 106 (1989): 603-618.
- Krajewski, C. "Relative Rates of Single-Copy DNA Evolution in Cranes." Molecular Biology and Evolution. 7 (1990): 65-73.
- Lassieur, S. and Wilson, D. E. "Lonchorhina aurita." Mammalian Species. 347 (1989): 1-4.
- McAllister, J. A. and Hoffmann, R. S. "Phenacomys intermedius." Mammalian Species. 305 (1988): 8 pages.
- McCoid, M. J. and Fritts, T. H. "Growth and Fatbody Cycles in Feral Populations of the African Clawed Frog, Xenopus laevis (Pipidae), in California with Comments on Reproduction." Southwestern Naturalist. 34 (4)(1989): 499-505.
- Mead, James G. "Sections on Mesoplodon hectori, M. mirus, M. europaeus, M. ginkgodens, M. grayi, M. stejnegeri, M. carlhubbsi, M. bowdoini, M. layardii, M. bidens and M. densirostris." In Whales and Dolphins. Edited by A. R. Martin. Salamander Books ltd., London and New York, 192 pp. (1990): 109-115.
- Mead, James G. and Potter, Charles W. "Seldom Seen Species." In The World's Whales -- A Closer Look. American Cetacean Society, Third Biennial Conference and Symposium, Monterey, California, November 11-13; i-vi, 1-193. (1988): 103-109.
- _____. "Natural History of Bottlenose Dolphins Along the Central Atlantic Coast of the United States." In The Bottlenose Dolphin. Academic Press, New York (1990): xviii + 653

- Menezes, N. A. and Weitzman, S. H. "Two New Species of Mimagoniates (Teleostei: Characidae: Glandulocaudinae), Their Phylogeny, and Biogeography and a Key to the Glandulocaudin Fishes of Brazil and Paraguay." Proceedings of the Biological Society of Washington. 103 (2)(1990): 380-426, 28 figures.
- Munroe, T. A. "Symphurus melanurus Clark, 1936, A Senior Synonym for the Eastern Pacific Tonguefishes, S. seychellensis Chabanaud, 1955, and S. sechurae Hildebrand, 1946. Copeia. 1 (1990): 229-232.
- Nizinski, M. S. "Ecological Distribution, Demography and Behavioral Observations on Periclimenes anthophilus, an Atypical Symbiotic Cleaner Shrimp." Bulletin of Marine Science. 45 (1)(1989): 174-188.
- Nizinski, M. S.; Collette, B. B.; and Washington, B. B. "Separation of Two Species of Sand Lance (Ammodytes Americanus and A. Dubius) in the Western North Atlantic." Fishery Bulletin, U. S. 88 (2)(1990): 241-255.
- Olson, Storrs L. "Two Overlooked Holotypes of the Hawaiian Flycatcher Chasiempis Described by Leonhard Stejneger (Aves: Myiagrinae)." Proceedings of the Biological Society of Washington. 102 (3)(1989): 555-558.
- _____. "Notes on Some Hawaiian Birds from Cook's Third Voyage." Bulletin of the British Ornithologists' Club. 109 (4)(1989): 201-205.
- _____. "The Original Description and Author of the Genus Dumetella Mimidae." Wilson Bulletin. 101 (4)(1989): 633-637.
- _____. "The Supposed California Record of Hawaiian Hawk Buteo solitarius." Elepaio. 50 (1)(1990): 1-2.
- Olson, Storrs L. "Remarks on the Osteology of the Madagascan Warblers Dromaeocercus and Amphilais (Sylviidae)." Bulletin of the British Ornithologists' Club. 110 (1)(1990): 9-10.
- _____. "A Very Early Observation of Spiral Intestines in the Procellariidae." Notornis. 37 (1)(1990): 24-25.
- _____. Forward. In Recent Advances in the Study of Neogene Fossil Birds. Ornithological Monographs. 44 (1990): v-vi.
- _____. Review of: "The Birds of New South Wales. A Working List." Auk. 107 (2)(1990): 458-459.
- _____. "Preliminary Systematic Notes on Some Old World Passerines." Revista Italiana d'Ornitologia. 59 (3-4)(1990): 183-195.
- Olson, Storrs L. and den Hartog, J. C. "Former Breeding of Sula dactylatra in the Cape Verde Islands." Bulletin of the British Ornithologists' Club. 110 (1)(1990): 10-12.
- Olson, Storrs, L. and Eller, Kimberly G. "A New Species of Painted Snipe (Charadriiformes: Rostratulidae) from the Early Pliocene at Langebaanweg, Southwestern Cape Province, South Africa." Ostrich. 60 (3)(1989): 118-121, 1 figure.
- Olson, Storrs L. and Schifter, Herbert. "The Identity of the Fabricated Bird Sassius simplex and Its Final Dissociation from the Hawaiian Avifauna." Rivista Italiana di Ornitologia. 59 (1-2)(1989): 43-48, 1 figure.
- Ota, Hidetoshi, and Crombie, Ronald I. "A New Lizard of the Genus Lepidodactylus (Reptilia: Gekkonidae) from Batan Island, Philippines." Proceedings of the Biological Society of Washington. 102 (3)(1989): 559-567.
- Ota, Hidetoshi and Ross, Charles A. "Records of Hemiphyllodactylus typus typus (Reptilia: Sauria) from Lanyu and Lutao Islands, Taiwan." Journal of Taiwan Museum. 43 (1)(1990): 35-39.

- Parsons, T. J.; Bradshaw, Jr., H. D.; and Gordon, M. P. "Systemic Accumulation of Specific mRNAs in Response to Wounding in Poplar Trees." Proceedings of the National Academy of Sciences. 86 (1989): 7895-7899.
- Parenti, L. R. "Fundamental Biogeography." Journal of Biogeography. 16 (1989): 401-402.
- _____. "A Phylogenetic Revision of the Phallostethid Fishes (Atherinomorpha, Phallostethidae)." Proceedings of the California Academy of Sciences. 46 (11)(1989): 243-277.
- _____. "Sociology and Biogeography: A Reply to Grehan." Journal of Biogeography. 17 (1990):
- Parenti, L. R. and M. Rauchenberger. "Systematic Overview of the Poeciliines" In Ecology and Evolution of Livebearing Fishes (Poeciliidae). Edited by G. K. Meffe and F. F. Snelson, Jr. Prentice-Hall. (1989): 3-12.
- Porter, C. A.; Crombie, R. I.; and Baker, J. J. "Karyotypes of Five Species of Cuban Lizards." Occasional Papers. The Museum, Texas Tech University. 130 (1989): 6 pages.
- Poss, S. G. and Collette, B. B. "Scorpaenodes immaculatus, a New Species of Scorpionfish (Osteichthyes: Scorpaenidae) from Walters Shoals, Madagascar Ridge." Proceedings of the Biological Society of Washington. 103 (3)(1990): 543-549.
- Randall, John E.; Fraser, Thomas H.; and Lachner, Ernest A. "On the Validity of the Indo-Pacific Cardinalfishes Apogon aureus (Lacepede) and A. fleurieu (Lacepede), with Description of a Related New Species from the Red Sea." Proceedings of the Biological Society of Washington. 103 (1)(1990): 39-62.
- Reynolds, R. P. "Geographic Distribution: Phrynops geoffroanus tuberosus." SSAR Herp. Review. 21 (1990): 40.
- Ripley, S. Dillon. "Reflections on Conservation and Preservation in India." In Conservation and Preservation in India. (1989): 297-300.
- _____. "In Memoriam: Yoshimaro Yamashina." Auk. 106 (4)(1989): 721.
- Ripley, S. Dillon and Beehler, Bruce M. "Systematics Biogeography, and Conservation of Jerdon's Courser, Rhinoptilus bitorquatus." Journal of the Yamashina Institute for Ornithology. 21 (1989): 165-174.
- Ross, C. A. "Probable Introduction of Lygosoma bowringi in Zamboanga City, Philippines." Herpetological Review. 20 (1)(1989): 6.
- _____. (Editor) Crocodiles and Alligators. Facts on File, New York. Oxford. (1989): 240 pages.
- Schaefer, S. A.; Weitzman, S. H.; and Britski, H. A. "Review of the Catfish Genus Scoloplax (Pisces: Loricarioidea: Scoloplacidae) with Comments on Reductive Characters in Phylogenetic Analysis." Proceedings of the Academy of Natural Sciences of Philadelphia. 141 (1989): 181-211.
- Smith, A.; Formozov, N.; Zheng, C.-L.; and Hoffmann, R. S. "Life History, Status and Distribution of the Pikas (Ochotonidae: Ochotona)." Abstract, Fifth International Theriological Congress. Rome, Italy. (1989): 199.
- Springer, M. S. and Krajewski, C. "DNA Hybridization in Animal Taxonomy: A Critique from First Principles." Quarterly Review of Biology. 64 (1989): 291-318.
- _____. "Additive Distances, Rate Variation, and the Perfect-Fit Theorem." Systematic Zoology. 38 (4)(1989): 371-375.
- Starnes, Wayne C. "Revision, Phylogeny and Biogeographic Comments on the Circumtropical Marine Percoid Fish Family Priacanthidae." Bulletin of Marine Science. 43 (2)(1988): 117-203.

- Starnes, Wayne C. "Review of Existing Information on Taxonomy and Distribution, Activities of Researchers, and Collections Resources for Fishes of the Cyprinid Genus Gila from the Colorado River Basin." Colorado River Basin Gila Taxonomy Project, Phase I Report, Part 1 (for U. S. Fish and Wildlife Service). (1990): 117 pages.
- _____. "Management Concerns, Priority Research Needs, and Proposed Research Plan" (Phase I Report, Part 2), and "Sampling Guidelines" (Part 3). Colorado River Basin Gila Taxonomy Project. (For U. S. Fish and Wildlife Service) (1990): 33 pages.
- Starnes, Wayne C. and Jenkins, Robert E. "A New Cyprinid Fish of the Genus Phoxinus (Pisces: Cypriniformes) from the Tennessee River Drainage with Comments on Relationships and Biogeography." Proceedings of the Biological Society of Washington. 101 (3)(1988): 517-529.
- Thorington, Jr., R. W. and Thorington, E. M. "Postcranial Proportions of Microsciurus and Sciurillus, the American Pygmy Tree Squirrels." In Advances in Neotropical Mammalogy. Edited by K. H. Redford and J. F. Eisenberg. Sandhill Crane Press, Gainesville, Florida, 1990, ix + 614 pages. (1989): 125-136.
- Timm, R. M.; Wilson, D. E.; Clawson, B. L.; LaVal, R. K.; and Vaughan, C. M. "Mammals of the Braulio Carrillo -- La Selva Complex, Costa Rica." North American Fauna. 75 (1989): 162 pages.
- Tyler, James C.; Johnson, G. David; Nakamura, Izumi; and Collette, Bruce B. "Morphology of Luvarus imperialis (Luvaridae), with a Phylogenetic Analysis of the Acanthuroidei (Pisces). Smithsonian Contributions to Zoology. (485)(1989): 1-78.
- Vari, R. P. "Systematics of the Curimatid Genus Pseudocurimata (Pisces, Characiforms)." Smithsonian Contributions to Zoology. 490 (1989): iii + 1-28, figs 1-18.
- _____. "Systematics of the Neotropical Characiform Genus Curimata Bosc (Pisces, Ostariophysi)." Smithsonian Contributions to Zoology. 474 (1989): 111 + 1-63, figs. 1-42.
- _____. "Systematics of the Curimatid Genus Psectrograster Eigenmann and Eigenmann (Pisces, Ostariophysi)." Smithsonian Contributions to Zoology. 481 (1989): 111 + 1-43., figs. 1-23.
- Weitzman, S. H. "Süßwasserfische der Welt. By Günther Sterba" In Biologische Zentralblatt 108 (2)(1989): 195.
- Williams, Jeffrey T. "Phylogenetic Relationships and Revision of the Blenniid Fish Genus Scartichthys." Smithsonian Contributions to Zoology. 492 (1990): 1-30.
- Wilson, D. E. "First Comprehensive Survey of Marine, Terrestrial Mammals of the Neotropics." Naturalist Review, Winter, 1990 (1989): 8.
- _____. Review of: "The Short-tailed Fruit Bat: A Study in Plant-Animal Interactions" (by Theodore H. Fleming). Journal of Wildlife Management. 54 (1990): 369-370.
- _____. "Pacific Flying Foxes Surveyed." Endangered Species Technical Bulletin. 15 (1990): 4.
- Wilson, D. E. and Eisenberg, J. F. "Origin and Applications of Mammalogy in North America." Current Mammalogy. 2 (1990): 1-35.
- Wilson, D. E.; Gardner, A. L.; and Verts, B. J. "Guidelines for Manuscripts for Publications of the American Society of Mammalogists." Journal of Mammalogy. 70 (4), supplement. (1989): 38 pages.
- Wilson, D. E. and Salazar, J. A. "Los Murciélagos de la Reserva de la Biosfera 'Estación Biológica Beni'." Ecología en Bolivia. 13 (1990): 47-56.

- Zug, George R. "The Fijian Lizard Fauna: A Zoogeographic Crossroads Assemblage." Prog. 1st World Congress of Herpetology. (1989).
- _____. "Walking, Running, and Crawling." In Crocodiles and Alligators. Edited by C. A. Ross. Facts on File, New York, Oxford. (1989): 46.
- _____. "Age Determination of Long-lived Reptiles: Some Techniques for Seaturtles." Prog. 1st World Congress of Herpetology. (1989).
- _____. Review of: Living Snakes of the World. American Scientist. 77 (1989): 594-595.
- _____. Review of: Reptiles and Amphibians. Copeia. (1990): 599.
- _____. "Forward." In Life History and Ecology of the Slider Turtle. Smithsonian Institution Press, Washington, D. C. (1990): vii-viii.
- Zug, George R. and Kalb, Heather. "Skeletochronological Age Estimates for Juvenile Lepidochelys kempii from the Atlantic Coast of North America." NOAA Tech. Memo. NNMFS-SEFC-232. (1989): 271-273.

Smithsonian Oceanographic Sorting Center

- Ferrari, F. and Hayek, L. "Monthly Differences in Distributions of Sex and Asymmetry in a Looking-glass Copepod, Pleuromamma xiphias, Off Hawaii." Journal of Crustacean Biology. 10 (1990): 114-127.
- Lemaitre, R. "A Review of Eastern Atlantic Species of the Family Parapaguridae (Decapoda, Anomura, Paguroidea)." Journal of Natural History. 24 (1990): 219-240.
- Norenburg, J. and Ferraris, J. "Cytomorphology of the Pedal Aperture Glands of Mya arenaria L. (Mollusca, Bivalvia)." Canadian Journal of Zoology. 68 (1990): 1137-1144.

Smithsonian Marine Station at Link Port

- Barnard, J. L.; Thomas, J. D.; and Sandved, K. "Behavior of Gammaridean Amphipoda (Crustacea): Corophium, Grandidierella, Podocerus, and Gibberosus (American Megaluropus) in Florida." Crustaceana. Supplement 13 (1988): 234-244.
- Bieler, Rüdiger and Hadfield, Michael G. "Reproductive Biology of the Sessile Gastropod Vermicularia spirata (Cerithioidea: Turritellidae)." Journal of Molluscan Studies. London. 56 (2)(1990): 205-219.
- Bucher, Katina E.; Norris, James N.; Littler, Mark M.; and Littler, Diane S. "Marine Algae New to Florida, Including Trichosolen molassensis sp. nov. (Chlorophyta) and Diplothamnion jolyi var. ecellulare var. nov. (Rhodophyta)." Cryptogamic Botany. 1 (1990): 295-307.
- Eckelbarger, Kevin J.; Rüdiger Bieler; and Paula Mikkelsen. "Ultrastructure of Sperm Development and Mature Sperm Morphology in Three Species of Commensal Bivalves (Mollusca: Galeommatoidae)." Journal of Morphology. 205 (1990): 63-75.
- Harasewych, M. G. "Ovophagy in Anachis avara (Say, 1822) (Gastropoda: Columbellidae)." The Nautilus. 104 (2)(1990): 76.
- Higgins, Robert P. "Zelinkaderidae, a New Family of Cyclorhagid Kinorhyncha." Smithsonian Contributions to Zoology. 500 (1990).
- Hines, Anson H. "Geographic Variation in Size at Maturity in Brachyuran Crabs." Bulletin of Marine Sciences. 45 (2)(1989): 356-368.
- Kilar, John A. and Hanisak, M. Dennis. "Phenotypic Variability in Sargassum (Fucales, Phaeophyta)." Phycologia. 28 (4)(1989): 491-500.

- Kilar, John A.; Littler, Mark M.; Littler, Diane S. "Functional-Morphological Relationships in Sargassum polyceratum (Phaeophyta): Phenotypic and Ontogenetic Variability in Apparent Photosynthesis and Dark Respiration." Journal of Phycology. 25 (1989): 713-720.
- Littler, D. S. and Littler, M. M. "Reestablishment of the Green Algal Genus Rhipidosiphon Montagne (Udoteaceae, Bryopsidales) with a Description of Rhipidosiphon floridensis sp. nov." British Phycology Journal. 25 (1990): 33-38.
- Manning, Raymond B. and Reaka, Marjorie L. "Preliminary Observations on the Biology of Coronis scolopendra at Fort Pierce, Florida." Biology of Stomatopods. Edited by E. A. Ferrero. Selected Symposia and Monographs U.Z.I., 3, Mucchi, Modena, (1989): 213-219.
- Mikkelsen, Paula M. and Bieler, Rüdiger. "Biology and Comparative Anatomy of Divariscintilla yoyo and D. troglodytes, Two New Species of Galeommatidae (Bivalvia) from Stomatopod Burrows in Eastern Florida." Malacologia. 31 (1)(1989): 175-195.
- Miller, John E. and Pawson, David L. "Swimming Sea Cucumbers (Echinodermata: Holothuroidea): A Survey, with Analysis of Swimming Behavior in Four Bathyal Species." Smithsonian Contributions to the Marine Sciences. 35 (1990): 1-18.
- _____. Hansenothuria benti, New Genus, New Species (Echinodermata: Holothuroidea) from the Tropical Western Atlantic: a Bathyal, Epibenthic Holothurian with Swimming Abilities." Proceedings of the Biological Society of Washington. 102 (4)(1989): 977-986.
- Okamura, B. "Particle Size, Flow Velocity, and Suspension-feeding by the Erect Bryozoans Bugula neritina and B. stolonifera." Marine Biology. 105 (1990): 33-38.
- Reaka, Marjorie L. and Manning, Raymond B. "Techniques for Sampling Stomatopoda in Benthic Environments." Biology of Stomatopods. Edited by E. A. Ferrero. Selected Symposia and Monographs U.Z.I., 3, Mucchi, Modena. (1989): 251-263.
- Rice, Mary E. "Comparative Observations of Gametes, Fertilization, and Maturation in Sipunculans. In Reproduction, Genetics and Distributions of Marine Organisms." 23rd European Marine Biology Symposium. Edited by John S. Ryland and Paul A. Tyler. Denmark: Olsen & Olsen. (1989): 167-182.
- Scheltema, Rudolf S. and Rice, Mary E. "Occurrence of Teleplanic Pelagosphaera Larvae of Sipunculans in Tropical Regions of the Pacific and Indian Oceans." Bulletin of Marine Science. 47 (1)(1989): 159-181.
- Smith, Celia M. and Norris, James N. "Structure and Occurrence of Spermatangia in Caribbean Bostrychia montagnei Harvey and B. binderi Harvey (Rhodomelaceae, Ceramiales)." Japanese Journal of Phycology. (Sorui), 36 (1988): 127-137.
- Winston, Judith E. and Håkansson, Eckart. "Molting by Cupuladria doma, a Free-living Bryozoan." Bulletin of Marine Science. 44 (3)(1989): 1152-1158.
- Woollacott, Robert M. "Structure and Swimming Behavior of the Larva of Halichondria melanadocia (Porifera: Demospongiae)." Journal of Morphology. 205 (1990): 135-145.

Laboratory of Molecular Systematics

- Arnold, M. L.; Bennett, B. D.; and Zimmer, E. A. "Natural Hybridization Between Iris fulva and Iris hexagona: Pattern of Ribosomal DNA Variation." Evolution. 44 (1990): 1512-1521.
- Chapman, R. L.; Buchheim, M.; Kantz, T.; Zechman, F.; and Zimmer, E. A. "Are Ancient Divergences Clearly Recorded in rRNA Gene Sequences in the Green Algae?" ICSEB IV Symposium Abstracts. (1990): page 39.
- Crisci, J. V.; Zimmer, E. A.; Hoch, P. C.; Johnson, G. B.; Mudd, C.; and Pan, N. S. "Phylogenetic Implications of Ribosomal DNA Restriction Site Variation in the Plant Family Onagraceae." Annals of the Mississippi Botanical Garden. 77 (1990): 523-538.
- Garvey, K. J.; Oberste, M. S.; Elser, J. E.; Braun, J. J.; and Gonda, M. A. "Nucleotide Sequence and Genome Organization of Biologically Active Proviruses of the Bovine Immunodeficiency-like Virus." Virology. 175 (1990): 391-409.
- Hillis, D.; Davis, S. K.; Larson, L. A.; and Zimmer, E. A. "Nucleic Acids III: Sequencing." In Molecular Systematics. Edited by D. Hillis and C. Moritz. Sinauer Press, Inc. (1990): 318-370.
- Issel, L. E.; Hamby, R. K.; and Zimmer, E. A. "Further Development of an rRNA Phylogeny for the Grasses." ICSEB IV Symposium Abstracts. (1990): page 39.
- Jupe, E. R. and Zimmer, E. A. "Undermethylated Regions in the Intergenic Spacers of Maize and Teosinte Ribosomal RNA Genes." Plant Molecular Biology. 14 (1990): 333-347.
- Jupe, E. R. and Zimmer, E. A. "Unmethylated Regions in rRNA Genes." Rice Biotech. Quarterly. 1 (1990): page 26.
- Kantz, T.; Chapman, R. L.; and Zimmer, E. A. "Phylogenetic Analysis of the Micromonadophyceae and Pleurostrophyceae Based on Cytoplasmic rRNA Sequence Analysis." ICSEB IV Symposium Abstracts. (1990): page 39.
- Kirsh, J. A. W.; Krajewski, C.; Springer, M. S.; Alpin, K.; Archer, M.; Dickerman, A. W. "DNA/DNA Hybridization Studies of Carnivorous Marsupials. I. Intergeneric Relationships Among Bandicoots (Marsupialia: Peramelidae)." Journal of Molecular Evolution. (1990).
- Kirsh, J. A. W.; Krajewski, C.; Springer, M. S.; Archer, M. "DNA/DNA Hybridization Studies of Carnivorous Marsupials. II. Relationships Among Dasyurids (Marsupialia: Dasyuridae). Australian Journal of Zoology. (1990).
- Knaak, C.; Hamby, R. K.; Arnold, M. L.; LeBlanc, M. D.; Chapman, R. L.; and Zimmer, E. A. "Ribosomal DNA Variation and its Use in Plant Biosystematics." In Proceedings of the Fourth IOPB Congress. Edited by Shoichi Kawano. Academic Press. (1990): 135-158.
- Krajewski, C. "Relative Rates of Single-copy DNA Evolution in Cranes." Molecular Biology and Evolution. 7 (1990): 65-73.
- _____. "Phylogenetic Relationships Among Cranes (Gruiformes: Gruidae) Based on DNA Hybridization." Auk. 106 (1989): 603-618.
- Morton, E. S.; Forman, L.; and Braun, M. J. "Extra Pair Copulation and the Evolution of Colonial Breeding in Purple Martins." Auk. 07 (1990): 275-283.
- Parsons, T. J.; Bradshaw, Jr., H. D.; and Gordon, M. P. "Systemic Accumulations of Specific mRNAs in Response to Wounding in Poplar Trees." P.N.A.S. 86 (1989): 7895-7899.

- Penny, D.; Hendy, M. D.; Zimmer, E. A.; and Hamby, R. K. "Trees from Sequences: Panacea or Pandora's Box?" Australia Systematic Botany. 3 (1990): 21-38.
- Springer, J. and Krajewski, C. "DNA Hybridization in Animal Taxonomy: A Critique from First Principles." Quarterly Review of Biology. 64 (1989): 291-318.
- Suh, Y.; Thien, L.; Chaw, S.; and Zimmer, E. A. "Molecular Phylogeny of the Magnoliidae Based on rRNA." ICSEB IV Symposium Abstracts. (1990): page 55.
- Zechman, F.; Chapman, R. L.; and Zimmer, E. A. "A Phylogenetic Analysis of the Ulvophyceae Based on rRNA Sequences." ICSEB IV Symposium Abstracts. (1990): page 109.

Biological Dynamics of Forest Fragments

- Bierregaard, Jr., Richard O. "Conservation of Tropical Rainforests: Facing a Fragmented Future." Proceedings Regional Meeting American Association of Zoological Parks and Aquariums. (1989).
- Bierregaard, Jr., Richard O. "Species Composition and Trophic Organization of the Understory Bird Community in a Central Amazonian Terra Firme Forest." In Four Neotropical Rainforests. Edited by A. Gentry. New Haven: Yale University Press. (1990): 217-236.
- _____. "Avian Communities in the Understory of Amazonian Forest Fragments." In Biogeography and Ecology of Forest Bird Communities. Edited by A. Keast and J. Kikkawa. (1990).
- Bierregaard, Jr., Richard O. and Lovejoy, T. E. "Effects of Forest Fragmentation on Amazonian Understory Bird Communities." Acta Amazonica. 19 (1989): 215-241.
- _____. "Birds in Amazonian Forest Fragments: Effects of Insularization." In Acta XIX Congress of International Ornithology. Edited by H. Ouellet. Ottawa: Univeristy of Ottawa Press. (1989): 1564-1579.
- Karr, J. R.; Robinson, Scott; Blake, J. G.; and Bierregaard, Jr., Richard O. "Birds of Four Neotropical Forests." In Four Neotropical Rainforests. Edited by A. Gentry. New Haven: Yale University Press. (1990): 237-269.
- Lovejoy, T. E. and Bierregaard, Jr., Richard O. "Central Amazonian Forests and the Minimum Critical Size of Ecosystems." In Four Neotropical Rainforests. Edited by A. Gentry. New Haven: Yale University Press. (1990): 60-71.
- Stotz, D. and Bierregaard, Jr., Richard O. "The Birds of the Fazendas Dimona, Porto Alegre, and Esteio, North of Manaus, Amazonas, Brazil." Rev. Brasil. Biol. 49 (3)(1989): 861-872.

NATIONAL PORTRAIT GALLERY

Publications

- Barber, James G. Old Hickory: A Life Sketch of Andrew Jackson. Washington, D.C.: National Portrait Gallery and Tennessee State Museum, 1990.
- Fern, Alan (Introduction) Oliphant's Presidents: Twenty-five Years of Caricature by Wendy Wick Reaves. Kansas City: Andrews and McMeel, 1990.
- _____. (Foreword) To Color America: Portraits by Winold Reiss by Jeffrey C. Stewart. Washington, D.C.: Smithsonian Press, 1989.
- _____. (Foreword) Portraits of the American Law by Frederick S. Voss. Seattle and London: University of Washington Press, 1989.
- _____. (Foreword with Elizabeth Broun) Irving Penn Master Images: The Collections of the National Museum of American Art and the National Portrait Gallery. Washington, D.C.: Smithsonian Institution Press, 1990.
- _____. (Essay) Puerto Rico Mio: Four Decades of Change by Jack Delano Washington, D.C.: Smithsonian Institution Press, 1990.
- Heppner, Irene. Bibliography on Portraiture: Selected Writings on Portraiture as an Art Form and as Documentation. Boston, Mass.: G.K. Hall, 1990.
- Kalfatovic, Martin R. "The Preservation of Knowledge: Institutional Memory and the Contracting Out of Government Libraries." In The Information Professional: An Unparalleled Resource: Papers Contributed for the 81st Annual Conference of the Special Libraries Association, June 9-14, 1990, 47-53. Washington, D.C.: Special Libraries Association, 1990.
- Miles, Ellen G. "A Notebook of Portrait Compositions by Thomas Bardwell." The Fifty-Third Volume of the Walpole Society, 1987 (London, 1989): 181-192.
- Miller, Lillian B. "'An Influence in the Air': Italian Art and American Taste in the Mid-Nineteenth Century." The Italian Presence in American Art, 1760-1860, edited by Irma B. Jaffe. Ithaca, N.Y.: Fordham University Press, co-published with the Istituto della Enciclopedia Italiana.
- _____. "Charles Willson Peale." International Dictionary of Art and Artists, edited by James Vinson, 2 vol. Chicago and London: St. James Press.
- _____. "Charles Willson Peale: The Artist in His Museum." International Dictionary of Art and Artists, edited by James Vinson, 2 vol. Chicago and London: St. James Press.
- Reaves, Wendy Wick. Oliphant's Presidents: Twenty-five Years of Caricature. Kansas City: Andrews and McMeel, 1990.
- Stapp, William, and Merry Foresta. Irving Penn Master Images: The Collections of the National Museum of American Art and the National Portrait Gallery. Washington, D.C.: Smithsonian Institution Press, 1990.
- Stapp, William. "Photographic Treasures from the National Portrait Gallery Collection." Washington, D.C.: The National Portrait Gallery, 1990.
- Ward, David C. "Poor Sports: Hemingway, Jake Barnes, and the Sporting Life in The Sun Also Rises," Aethlon: The Journal Sport Literature 6 (June 1990).
- _____. Review of A Bright Shining Lie. John Paul Vann and America in Vietnam by Neil Sheehan in the Pennsylvania Magazine of History and Biography 114 (January 1990).
- _____. Review of A Great and Good Man. George Washington in the Eyes

of His Contemporaries edited by John P. Kaminski and Jill Adair
McCaughan in the Maryland Historical Magazine 85 (Summer 1990).
_____. Review of Major General Adam Stephen and the Cause of American
Liberty by Harry M. Ward in the Maryland Historical Magazine 86
(Fall 1990).

OFFICE OF ELEMENTARY AND SECONDARY EDUCATION

Eisendrath, Betsy, ed. "These Words Are a Splash of Shadows: How
Your Eyes and Brain Make Sense of Light," Art to Zoo.
November 1989.

_____. "200 Years and Counting: How the U.S. Census Tracks Social
Trends," Art to Zoo. March 1990.

_____. "A Ticket to Philly--In 1769: Thinking about Cities, Then
and Now," Art to Zoo. May 1990.

Office of Elementary and Secondary Education. Resource Guide for
Teachers: Educational Materials from Smithsonian
Institution, National Gallery of Art, John F. Kennedy Center
for the Performing Arts. Washington, D.C.: Smithsonian
Institution, 1990.

Smith, Michelle Knovic, and Claudia Brush Kidwell. Image and
Identity: Clothing and Adolescence in the 1990s.
Washington, D.C.: Smithsonian Institution, 1990.

OFFICE OF FOLKLIFE PROGRAMS

- Cadaval, Olivia. "Folklife of the U.S. Virgin Islands." Festival of American Folklife Program Book, ed. Peter Seitel, pp. 18-26. Washington, D.C.: Smithsonian Institution.
- Kurin, Richard. "Folklife in Contemporary Multicultural Society." Festival of American Folklife Program Book, ed. Peter Seitel, pp. 8-17. Washington, D.C.: Smithsonian Institution.
- _____. "Forward," Stand By Me: African American Expressive Culture in Philadelphia. Hinson, Glenn and Jerrilyn McGregory. Washington, D.C.: Smithsonian Institution.
- _____. "Turbans, Skirts and Spirits: Folk Models of Social Organization in a Muslim Society." Social Analysis, 8(2).
- N'Diaye, Diana. "Tradition and Cultural Identity in Senegal." Festival of American Folklife Program Book, ed. Peter Seitel, pp. 38-47. Washington, D.C.: Smithsonian Institution.
- Peters, Jacquelin. "Songs and Stories of Struggle: Music and Verse as Ethical Discourse." Festival of American Folklife Program Book, ed. Peter Seitel, pp. 58-77. Washington, D.C.: Smithsonian Institution.
- Seeger, Anthony. "Musics of Struggle." Festival of American Folklife Program Book, ed. Peter Seitel, pp. 56-75. Washington, D.C.: Smithsonian Institution.
- Taylor, Lori Elaine, producer. "Don't Mourn--Organize! Songs of Labor Songwriter Joe Hill." Smithsonian/Folkways SF40026.
- _____. and Andrew Connors, compilers. "A Fish That's a Song: Songs and Stories for Children Inspired by the Hemphill Collection of the National Museum of American Art." Smithsonian/Folkways SF45037.
- Vennum, Thomas, Jr. "The Changing Role of Women in Ojibway Music History." In Women in American Indian Music: Six Essays, ed. Richard Keeling, pp. 13-21. Society for Ethnomusicology Special Series No. 6.

OFFICE OF PUBLIC AFFAIRS

The Torch. A monthly newsletter for Smithsonian employees, featuring profiles, question-and-answer columns about interesting jobs, previews of upcoming events, classified ads, and more. Circulation is 10,300, which includes staff and a list of interested individuals and organizations outside the Smithsonian. Editor: Mary Combs.

Smithsonian Institution Research Reports. A quarterly newsletter that disseminates information on Smithsonian research to an audience of about 73,000 readers (10,000 scientists, libraries, museums, universities, journalists, and others and 63,000 Contributing Members of the National Associate Program). Editor: Jo Ann Webb.

Smithsonian Runner. A bimonthly newsletter for Native Americans, featuring informational updates on the National Museum of the American Indian and articles on research and other projects, activities and events at the Smithsonian that are of particular interest to Native Americans. Circulation is 1,600, which includes Native American journalists and community leaders. Editor: Robert Tenequer

Smithsonian Marine Station at Link Port. A 12-page, five-color brochure that tells about the work of the Smithsonian Marine Station--a research facility at which scientists study diverse and abundant marine life and coastal environments--located in Fort Pierce, Fla., on the state's mid-Atlantic coast. Writer: William Schulz

Conservation Analytical Laboratory. A 12-page, two-color brochure that describes the work of the Smithsonian's Conservation Analytical Laboratory--a center for research and training in the conservation of museum materials--located in the Museum Support Center in Suitland, Md. Writers: David Maxfield and Eleanor McMillan

Resources at the Smithsonian for Native Americans. A newly updated eight-panel flyer that describes what is available at the Smithsonian for members of the Native American community.

The Beauty and Diversity of Our Planet. A 30-second public-service announcement for television, with actor Robert Redford, highlighting some of the research the Smithsonian is doing and encouraging viewers to learn more about the Earth and how people, plants, and animals depend on each other. Coordinator: Lilas Wiltshire

Smithsonian News Service. A feature-story service that provides four articles and appropriate art work each month to more than 1,100 daily and weekly newspapers and other media in the United States and abroad.

OFFICE OF ASSISTANT SECRETARY FOR EXTERNAL AFFAIRS

- Lovejoy, T.E. 1989. Deforestation and the extinction of species. Pp. 91-98 in Changing the Global Environment (D.B. Botkin, M.F. Caswell, J.E. Estes, and A. Orio, Eds.). Academic Press. 480 pp.
- Lovejoy, T.E. 1989. International agreements and developing countries resolving the debt problem. Pp. 85-86 in Steps Toward an International Convention Stabilizing the Composition of the Atmosphere (K. Ramakrishna and R.W. Harrill, Eds.). The Woods Hole Research Center, MA.
- Lovejoy, T.E. 1989. Nothing, nothing at all? *Atlantic Naturalist* 39:2-5.
- Lovejoy, T.E. 1989. The obligations of a Biologist. *Conservation Biology* 3:329-330.
- Lovejoy, T.E. 1989. The role of the biota. Pp. 53-57 in Atmospheric Carbon Dioxide and Global Warming (J. Cairns, Jr. and P.F. Zweifel, Eds.). Virginia Polytechnic Institute and State University, Blacksburg, VA.
- Lovejoy, T.E. 1990. The problem of Third World development. *J. of Environmental Health*. Spring 1990, pp. 31-32. (Reprint of 1989, *The Third World's environment: a global dilemma*, *EPA Journal* 15(4):42-43.)
- Lovejoy, T.E. 1990. Consider their ways and be wise. Review of The Ants by B. Hölldobler and E.O. Wilson (1990, The Belknap Press/Harvard Univ. Press, 732 pp.). *The New York Times Book Review*, 29 July 1990, p. 3.
- Lovejoy, T.E. 1990. Will unexpectedly the top blow off? Pp. 207-216 in Greenhouse Glasnost: The Crisis of Global Warming (essays introduced by R. Redford; T.J. Minger, Ed.), The Ecco Press, Institute for Resource Management, New York. 292 pp.

SMITHSONIAN RESIDENT ASSOCIATE PROGRAM

- Solinger, Janet W., ed. Museums and Universities: New Paths for Continuing Education (New York: The American Council on Education and Macmillan Publishing Company, 1990).
- Solinger, Janet W. "Museums and Universities: Choices" in Museums and Universities: New Paths for Continuing Education ed. by Janet W. Solinger (New York: The American Council on Education and Macmillan Publishing Company, 1990), pp. 1-6.
- Worthy, Edmund H., Jr. "The Smithsonian Resident Associate Program" in Museums and Universities: New Paths for Continuing Education ed. by Janet W. Solinger (New York: The American Council on Education and Macmillan Publishing Company, 1990), pp. 132-146.
- Worthy, Edmund H., Jr. "Imperial Balance of the Military Power Equation in Early Sung China" in Collected Studies on Sung History Dedicated to Professor James T. C. Liu in Celebration of his 70th Birthday ed. by Tsuyoshi Kinugawa (Kyoto: Dohshsha, 1989), pp. 583-602.

Natural History Video Updates pilot programs, short features on the discovery of a mosasaur fossil in Maryland and Hurricane Hugo's devastation of Puerto Rican forests. (NMNH)

Covering the Environment: Front Page or Yesterday's News?, a half-hour program distributed to media professionals only, to encourage new strategies in reporting critical environmental stories in the news. (Ext Aff)

Smithsonian Video Collection, one-hour programs ("The Zoo behind the Zoo," "The Flying Machines," "Creatures Great and Small," "Gems and Minerals," "The First Ladies"), releases on videodisc of previously released video programs. (NZP, NASM, NMNH, NMNH, NMAH)

The New Age: A Videowall Experience, the Smithsonian's first videowall production, a 14-minute multi-screen video in the "Information Age" exhibition. (NMAH)

Here at the Smithsonian -- three-minute television features "African Sounding Forms" The first international exhibition devoted exclusively to African musical instruments as sculpture. (NMAFA)

"The Way to Independence" Memories of a Hidatsa Indian family reveal how they coped with the radical transformation of American society between 1840 and 1920, from a Museum of American History exhibition. (NMAH)

"A Continuity of Culture" The Folklife Festival takes a look at the serious problems of poverty, pollution, and commercial development which are causing many Indian traditions to disappear. (OFP)

"Tending a Sculpture Garden" Staff at the Hirshhorn Museum go to great lengths to preserve and care for its garden and the sculptures in it. (HMSG)

"A Holiday Celebration" At the Museum of American History and the Anacostia Museum, a look at the craft and cultural traditions of three holidays -- Christmas, Hanukkah, and Kwanzaa. (NMAH & AM)

"A Smithsonian Holiday" The Smithsonian's card keepers, tree trimmers, and gingerbread bakers busily prepare for the holiday season. (NMAH)

"A Touch of Glass" Some of Louis Comfort Tiffany's most breathtaking works on view. (Renwick, NMAA)

"Duke Ellington, American Musician" Recently acquired sheet music, papers, photographs, and memorabilia shed new light on the career of one of our greatest composers. (NMAH)

"Happy Birthday, National Zoo" The National Zoo, one of the world's leading centers for animal conservation and scientific research, is one hundred years old. (NZP)

"The Decorative Designs of Frank Lloyd Wright" His genius went far beyond buildings to all manner of interior details. A touring exhibition looks at the importance of these designs and the challenges of conservation they pose. (SITES)

RADIO PRODUCTIONS

Radio Smithsonian, a weekly series of half-hour programs broadcast nationally; many subjects developed by Radio Smithsonian staff.

- "A Conversation with Jerry Garcia" Lead guitarist of The Grateful Dead reflects on the importance of traditional music. (RS)
- "Exchanging Notes" Highlights from the first International Folklore Festival in Moscow featuring 40 traditional American musicians. (OFP)
- "The Aviation Careers of Sikorsky" A discussion of Igor Sikorsky's contributions on the centennial of his birth. (NASM)
- "Stumbling into the Coca Culture" Botanist Dieter Wasshausen examines a plant with a 5000-year cultural past and a deadly present. (NMNH)
- "Tracing the Tractor" Overview of a century of tractoring. (NMAH)
- "Richard Wright: Daemonic Genius" Eminent scholar and poet Margaret Walker, author of an acclaimed biography of Wright, discusses his career. (RAP)
- "Caribbean Festival Art" Highlights of Caribbean festivals expressing the cultures and arts of the islands. (OWAD)
- "Composing a Life" Henry Mancini reflects on his career at ASCAP's 75th anniversary celebration. (RS)
- "A Whiz of a Wiz" A tribute to the 50th anniversary of "The Wizard of Oz. (RS)
- "World at War: 1939-1945" Fifty years later, experts offer perceptive analyses of key issues in the war's political, diplomatic, military, and social history. (NASM)
- "Workers and Managers" As a new labor relations exhibit opens, a discussion focuses on the struggle between workers and managers for control of the workplace from the early 1800s to the present. (NMAH)
- "Jazz Piano" Highlights of new album showcasing decades of performances by jazz artists of every style and school. (SIP)
- "Great American Comics" A celebration of 100 years of American cartoon and comic art as featured in a new traveling exhibition. (SITES)
- "Parting the Green Curtain" Deforestation, global warming, and species extinction are just a few of the 'hot' issues being researched in Panama. (STRI)
- "Beni Biological Reserve" Touring a refuge for the Amazon basin's forest animals where Smithsonian scientists work with other researchers. (RS)
- "Man in the Biosphere" A report on the Smithsonian's effort in Latin America to train local ecologists. (RS)
- "The Noble Path" Highlights of the evolution of Buddhism in India and how it matured and spread into Tibet and Nepal. (AMSG)
- "American Abstraction 1930-1945" Artists who resisted the representational tide reflect on the implications of their work. (NMAA)

- "Mapping the Human Genome" James D. Watson, co-winner of the 1953 Nobel Prize for discovering DNA, discusses his human genome project at the National Institutes of Health. (RAP)
- "Composing a Life" Songwriter Charles Strouse reflects on his career. (RS)
- "Introducing Michel Camillo" Highlights of a Smithsonian concert by this jazz pianist from the Dominican Republic. (RAP)
- "A Conversation with Nikki Giovanni" Discusses her career and reads selected poetry on the 20th anniversary of her first book. (RAP)
- "The Real McCoy" Traces African American invention and innovation with exhibition at the Anacostia Museum. (AM)
- "50 Years of Nylon" Julian Hill, an inventor of nylon, reviews the story behind the discovery of the first man-made fiber on its golden anniversary. (NMAH)
- "Greek Revival America" Roger Kennedy discusses the Greek Revival movement of the 1820s through its most public expression, architecture. (NMAH)
- "Hesperus" Highlights of a concert featuring early American and baroque music. (RS)
- "Up in the Air" Author Doris Rich looks beyond the Amelia Earhart myth to her remarkable achievements as activist, pioneer and crusader for women's rights. (RAP)
- "High Honor" Recollections by men and women of World War II aviation. (NASM)
- "Visions of Vaudeville" Smithsonian fellow Rob Snyder discusses vaudeville and the social and cultural trends alive in New York at the turn of the century. (RS)
- "An Afternoon with the Bergmans" Songwriting team Alan and Marilyn Bergman share stories behind some of their hits. (RS)
- "Nomads: Masters of the Eurasian Steppe" Tour of a landmark exhibition featuring over 1000 artifacts from major Soviet museums. (SITES)
- "The First Egyptians" Highlights from an exhibition featuring rare Egyptian pottery, shells, and slate plates that tell the story of Egyptian civilization before the pharaohs. (NMMH)
- "20th Century Consort" Highlights from a concert by a virtuoso ensemble of Washington's best woodwind soloists. (RAP)
- "Slave Quilts from the AnteBellum South" Discussion of the powerful messages of hope, pain, joy, and frustration stitched into ornate quilts by slaves in the 18th and 19th centuries. (Renwick)
- "African American History Revisited" Examination of documents, artifacts and other cultural remains that shed new light on African American History. (NMAH)
- "Hear Ye, Hear Ye" The Honorable Robert H. Bork discusses his view that the "original understanding" of the Constitution is the only means by which a judge can solve a problem. (RAP)
- "Inside the White House" UPI's Helen Thomas shares her insider's view of the Presidency as seen from the White House press room. (RAP)

- "To the Moon" Astronaut Buzz Aldrin offers a unique perspective on the American space program and the future of space exploration. (NASM)
- "News from 2" Voyager 2 Project Manager Norman Haynes reviews the achievements and discoveries of the 12 year, 4.4 billion-mile exploratory journey. (RAP)
- "Pro Musicis" Highlights from a concert series featuring Gary Louie, acclaimed classical saxophone soloist. (RAP)
- "Acquisitions '89" An overview of items acquired by Smithsonian curators during the last year of the decade. (OPA)
- "Junk in Orbit" Astronomers and space scientists review the unwelcome legacy of 32 years of orbiting trash and its dangers. (NASM)
- "Sunracer" A look at the GM sunracer, the solar-powered car that won the World Solar Challenge in Australia last year, recently donated to the Smithsonian. (NMAH)
- "Parish the Thought" Lyricist Mitchell Parish reflects on a lifetime of songwriting. (RS)
- "Collecting Culture" Curators discuss how they determine what is most important to preserve from our everyday lives for future generations. (NMAH)
- "Tell Me a Story" Highlights from traditional storytelling practices among the Akan Peoples of Ghana. (NMAFA)
- "People of the Boat" A look at the displaced Vietnamese in conjunction with "Asian Visions," a film series. (AMSG)
- "Pro Musicis" Highlights from a concert featuring Maria Bachman, acclaimed violinist. (RAP)
- "Advertising in American History" Hows and whys of collecting and preserving commercial advertising materials that reflect the changing social and cultural character of everyday American life. (NMAH)
- "Man Made Nature" The science of restoring natural habitats after natural disasters and human intrusion cause seemingly irrevocable damage. (STRI)
- "Garbage: A Mounting Problem" The ever increasing waste problem and how it affects our economy and ecology. (RAP)
- "The Women of Deh Koh" Author Erica Friedl offers a rare glimpse into everyday lives of 12 Iraqi women amid continuing political changes. (RAP)
- "Walking the Tightrope" Russian born author Francine du Plessix Gray examines the lives of contemporary Soviet women who struggle to create a more humane relationship between themselves and the state. (RAP)
- "Pro Musicis" Highlights of concert featuring acclaimed violinist Cynthia Phelps. (RAP)
- "On the Move: Beauty, Rhythm and Power" Excerpts from symposium that brought together dancers, students, and scholars to explore African dance traditions in the development of American culture. (NMAH)
- "Flight Enters the Computer Age" Discussion of the role of the computer in the design and navigation of existing and future aircraft. (NASM)

- "Rhapsody in Glue" Essayist and author Daniel Pinkwater takes listeners on a journey back to childhood and model airplanes. (RS)
- "International Poetry Forum" Poets Sandra Gilbert and Karl Shapiro, read and talk about their award-winning work. (RAP)
- "Directions: Ilya Kabakov" Discussion with this conceptual artist, considered by his peers to be the most important contemporary Soviet artist working today, whose avant-garde projects draw increasing attention in the West. (HMSG)
- "A La Mode Chez Nous: French Folk Culture in Two Worlds" Discussions with people from provincial France and French communities in North America at the 1989 Folklife Festival. (OFP)
- "How to Be a Green Consumer" Author and Smithsonian lecturer Joel Makower suggests simple steps to help the environment and keep the planet green. (RAP)
- "Angela Davis: Then and Now" Activist and scholar Davis traces her life from her youth as a forcible participant in the civil rights movement to her current status as full professor at San Francisco State University. (RAP)
- "Pro Musicis" Highlights from a concert featuring horn virtuoso Richard Todd. (RAP)
- "Earth Day and Beyond: Where Do We Go from Here?" Highlights from a symposium of scholars and scientists discussing the environmental crisis of the '90s and the future of our planet. (NMNH)
- "Probing the Information Age" Highlights from exhibition exploring how information technology has influenced our society over the last 50 years. (NMAH)
- "Fusing Mind and Computer" Science writer and industrial consultant Richard Friedhoff explains important new techniques in computer visualization and how they are advancing the frontiers of art and science. (RAP)
- "Very Special Arts" A look behind the scenes at Very Special Arts' Young Playwright's Competition at the Kennedy Center, tracing all stages of a new play concerning the disabled. (RS)
- "Pro Musicis" Highlights from a concert featuring young virtuoso pianist Gary Steigerwalt. (RAP)
- "My Shining Half Hour" Margaret Whiting and other cabaret singers salute Mabel Mercer. (NMAH)
- "Dams, Development, and American Indians" When large government dams are built, people living in the river areas, frequently Native Americans, are dramatically affected. Key tribal leaders talk of their experiences. (NMAH)
- "Yes, Yes, Nonet!" Bill Kirchner, a 1990 Jazztimes Critics' Poll Winner as Best Emerging Jazz Arranger, brings his nine-member orchestra to Baird Auditorium. (RAP)
- "25 Years of RAP" Director Janet Solinger reviews past successes and looks ahead for the Smithsonian's Resident Associate Program. (RAP)

OFFICE OF INFORMATION RESOURCE MANAGEMENT

Felley, James D. 1989 Nekton assemblages of the Calcasieu Estuary.
Contributions in Marine Science 31:95-117.

OFFICE OF PRINTING AND PHOTOGRAPHIC SERVICES

Aceto, Lorie H. "Filming Photographic Collections for the
Production of Laser Video Discs" Presented: 11th D-Max International;
Ottawa, Ontario, Canada; November 10, 1989.

Wallace, Jim; Goulait, Joe; Talman, Hugh. "The Bourges-Bruehl
Collection. Reproducing Color From Glass Separation Negatives"
Presented: Photographic Materials Group, The American Institute for
Conservation of Historic and Artistic Works 18th Annual Meeting,
Richmond, Virginia, June 3, 1990.

Wallace, Jim. "Electronic Imaging in a Comprehensive Program of
Photographic Preservation" Presented: Mid-Atlantic Regional Archives
Conference, Spring Meeting, Rutgers University, New Brunswick, N.J., May
19, 1990.

_____. "The Use of Commercial Scanners To Restore Dark
Faded Color Transparencies" Presented: The Society for Imaging Science
and Technology, Third International Symposium on Imaging Conservation,
Rochester, N.Y., June 19, 1990.

READING IS FUNDAMENTAL, INC.

RIF Newsletter. Published three times a year, the Newsletter reports on RIF activities nationwide. A technical assistance insert, addressing local projects' requests for information on how to motivate youngsters to read, is included in Newsletters sent to RIF projects. The Newsletter reaches 18,000 people throughout the United States and offshore territories.

The RIF Guide to Encouraging Young Readers (Doubleday, 1987). A sourcebook of activities, children's book suggestions, and resources for parents.

Eight Million Times a Year. A newly published brochure describing the organization, its goals, and its programs.

"Parent Guide" Brochures. A series of 12 brochures on the topics "Choosing Good Books for Your Children," "TV and Reading," "Reading Aloud to Your Children," "Upbeat and Offbeat Activities to Encourage Reading," "Teenagers and reading," "Children Who Can Read, But Don't...," "Encouraging Soon-To-Be Readers," "Magazines and Family Reading," "Family Storytelling," "Building a Family Library," "Encouraging Young Writers," "Summertime Reading."

Books to Grow On: A Parent's Guide to Encouraging Young Readers. A resource for parents of children from infancy to age eleven.

The RIF Handbook: How to Run a Successful Reading Is Fundamental Project. A technical assistance manual to help RIF volunteers organize and operate an effective reading motivation program. Includes an overview of RIF as well as sections on fundraising, book selection and ordering, and activities to motivate reading.

I Want You. A brochure to assist RIF projects in recruiting and training volunteers.

Reading Is Fun! Tips for Parents. A booklet offering suggestions on how to encourage children up to the age of eight to read.

Children's Bookshelf. An annotated list of 106 books for children up to the age of eleven.

Profiles. Descriptions of the publishers and distributors that serve RIF projects. The Profiles list special discounts and services offered by each supplier and are distributed annually to all projects.

When We Were Young: Favorite Books of RIF Kids, RIF Volunteers, and Readers of Renown.

Forty-page list of favorite children's books. Includes personal recommendations of some 80 public figures.

Helping Your Children Become Readers/Como Ayudar a Que Sus Ninos Sean Buenos Lectores. Available in English or Spanish, this reproducible, illustrated brochure features 10 reading tips in simple language.

Appendix 6

The Smithsonian Institution and Its Subsidiaries, September 30, 1990

OFFICE OF THE SECRETARY

The Secretary	Robert McC. Adams
Executive Assistant	James M. Hobbins
Special Assistant	Marie Mattson
Administrative Assistant	Mary Lee Nissley
(Appointments)	
Supervisor, Secretary's Files	Betty J. Edwards

OFFICE OF THE UNDERSECRETARY

Undersecretary	Dean Anderson*
Administrative Officer	Mary Brough Emond**
Acting Undersecretary	Nancy Suttentfield***
Staff Assistant	Aileen Wakefield***

*through September 2, 1990

**through September 14, 1990

***appointed September 1990

OFFICE OF INSPECTOR GENERAL

Inspector General	Thomas D. Blair
Deputy Inspector General	John C. Fawsett
Assistant Inspector General for Audits	Jerry L. Chandler
Assistant Inspector General for Investigations	Richard H. Cook
Administrative Officer	Mary Brough Emond

OFFICE OF THE GENERAL COUNSEL

General Counsel	Peter G. Powers
Associate General Counsels	George S. Robinson Alan D. Ullberg
Assistant General Counsels	Rachelle V. Browne Ildiko P. DeAngelis James D. Douglas Lauryn Guttenplan Grant Elaine L. Johnston Marsha S. Shaines Christine Steiner James I. Wilson

Office of the Treasurer

Treasurer
Deputy Treasurer

Ann R. Leven
Rick Johnson

OFFICE OF THE ASSISTANT SECRETARY FOR RESEARCH

Assistant Secretary	Robert S. Hoffmann
Deputy Assistant Secretary	Ross Simons
Executive Officer	Rita R. Jordan
Special Assistant to the Assistant Secretary for Research	Ruth O. Selig
Administrative Officer	Joan R. Zavala

INTERNATIONAL CENTER

Coordinator	Francine C. Berkowitz
Administrative Officer	Saundra A. Thomas
Special Assistant to the Assistant Secretary for Research	Mary S. McCutcheon

OFFICE OF INTERNATIONAL RELATIONS

Director	Francine C. Berkowitz
Assistant Director	Brian W. J. LeMay
International Exchanges Officer	Raymond W. Seefeldt
International Liaison Officer	Leonard P. Hirsch
International Liaison Specialist	Judy Rodgers Johnson
Administrative Assistant	Barbara H. Russell
Program Assistant	L. Ernelle Ross

OFFICE OF CONFERENCE SERVICES

Director	Cheryl LaBerge
Program Coordinator	Karen B. Harmon
Program Assistant	Sheri L. Price

OFFICE OF QUINCENTENARY PROGRAMS

Director	Alicia M. Gonzalez
Deputy Director	Jackie Dulaney
Executive Officer	Audrey Archer
Research Assistant	Dennis G. Medina
Program Assistant	Luis F. Tassara

INTERNATIONAL GALLERY

Project Director (Caribbean Festival Arts)	Vera H. Hyatt
Project Assistant (Caribbean Festival Arts)	Helen Dizikes

OFFICE OF ENVIRONMENTAL AWARENESS

Director	Judith Gradwohl
Program Assistant	Helen Dizikes

SMITHSONIAN INSTITUTION/MAN AND THE BIOSPHERE PROGRAM

Director	Francisco Dallmeier
Program Manager	John C. Mayne
Program Assistant	Laura M. Neal

JOSEPH HENRY PAPERS

Director	Marc Rothenberg
Administrative Officer	Beverly Jo Lepley
Assistant Editor	Kathleen W. Dorman
Assistant Editor	John C. Rumm
Assistant Editor	Paul H. Theerman

NATIONAL ZOOLOGICAL PARK

Director
Registrar
Special Assistant to the Director

Michael H. Robinson
Judith Block
Lynn Dolnick

Associate Director for Biological
Programs

Benjamin B. Beck

Associate Director for Facilities
and Administration

Gretchen Gayle Ellsworth

Associate Director for Conservation

Christen M. Wemmer

ANIMAL EXHIBIT DEPARTMENTS

Department of Mammalogy

Curator
Associate Curator

Edwin Gould
John Seidensticker

Collection Managers

Edward Bronikowski
John Lehnhardt

Lisa Stevens
William Xanten

Department of Herpetology

Curator
Collection Manager

Dale Marcellini
Michael Davenport

Department of Ornithology

Assistant Curator
Collection Manager

Charles Pickett
Paul Tomassoni

Department of Invertebrates

Curator
Collection Manager

Jaren Horsley
Alan Peters

ZOOLOGICAL RESEARCH

Assistant Director for Research

Devra G. Kleiman

Scientific Staff

Daryl J. Boness
Eugene S. Morton
Olav T. Oftedal

Katherine S. Ralls
Miles Roberts
Rasanayagam Rudran

Population Manager

Jonathan Ballou

Research Associates

Mary Allen
Steven R. Beissinger
Adelmar Coimbra-Filho
Susan D. Crissey
Carolyn M. Crockett
Priya Davidar
Elissa Derrickson
Kim C. Derrickson
James Dietz

Wolfgang P. J. Dittus
John F. Eisenberg
Lisa Forman
Theodore I. Grand
Russell G. Greenberg
John Robinson
Melvin E. Sunquist
Betsy Trent Thomas

ANIMAL HEALTH

Assistant Director for Animal Health

R. Mitchell Bush

Associate Veterinarian
Reproductive Physiologist

Lyndsay G. Phillips, Jr.
David E. Wildt

Director, NOAHS Center

Laurie Marker-Kraus

Research Associates

Mark Barone
Ann Byers
Steve Monfort
Sam Wasser

Janine Brown
JoGayle Howard
Mitch Schiewe
Lee Young

DEPARTMENT OF PATHOLOGY

Pathologist-in-Charge
Associate Pathologist

Richard J. Montali
Linda Munson

Research Associates

Richard Alsaker
Max J. G. Appel
Chris Gardiner
Kathryn Holmes

John Fletcher
John Strandberg
Anton Steuer
Bernard Zook

FACILITIES AND ADMINISTRATION

Office of Facilities Management

Assistant Director for Maintenance
and Construction

David Boothe

Office of Management Services

Administrative Specialist

James E. Fitzpatrick

Office of Police and Safety

Chief, Office of Police and
Safety

Samuel L. Middleton, Jr.

INTERPRETIVE SERVICES

Associate Director for Interpretive
Services

(vacant)

Chief, Office of Public Affairs

Robert J. Hoage

Chief, Office of Education

Judith White

Chief, Office of Design and
Exhibits Planning

Virginia A. Mahoney
(Acting)

DEPARTMENT OF CONSERVATION

Associate Director for Conservation

Christen M. Wemmer

Deputy Associate Director
Research Coordinator
Conservation Officer
Collection Manager

Scott Derrickson
John Rappole
Martha Fujita
Larry Collins

Fellows and Associates

Lee Boyd
Eric Dinnerstein

Hemanta Mishra
George Schwede

Research Associates

Peter August
Joel Berger
Illar Muul

J. L. David Smith
Michael Stüwe
Richard Watling

DEVELOPMENT OFFICE

Development Officer
Associate Development Officer

Heather Kaye Jacobs
Daniel R. Studnicky

FRIENDS OF THE NATIONAL ZOO

Executive Director
Deputy Director

Clint Fields
James Schroeder

OFFICE OF AMERICAN STUDIES

Director
Secretary

Wilcomb E. Washburn
Ruby Hamblen

OFFICE OF FELLOWSHIPS AND GRANTS

Director
Assistant Director
Administrative Officer
Academic Program Specialist
Academic Program Specialist
Program Assistant
Program Assistant
Program Assistant

Roberta W. Rubinoff
Elizabeth W. Veatch
Catherine F. Harris
Bruce W. Morrison
Sharon K. Nishizaki
Marika Carley
Mary Gooden
Pamela Hudson

OFFICE OF INTERDISCIPLINARY STUDIES

Acting Director
Program Specialist
Program Specialist
Program Specialist
Administrative Officer

Ross B. Simons
Carla M. Borden
Neil G. Kotler
John W. Franklin
Teresa P. Johnson

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

Director

Irwin Shapiro

Associate Directors

Planning

Bruce Gregory

Atomic and Molecular Physics
High Energy Astrophysics
Optical and Infrared Astronomy
Planetary Sciences
Radio and Geoastronomy
Solar and Stellar Physics
Theoretical Astrophysics

Kate Kirby
Harvey Tananbaum
John P. Huchra
Brian Marsden
James M. Moran
George L. Withbroe
Alastair G.W. Cameron

Administrative Department Heads

Central Engineering
Contracts and Procurement
Controller's Office
Library
Personnel

Richard B. Dias
George D. Dick
Robert T. Ayer
Joyce Watson
Harris E. Rosenthal
Marion R. Aymie (appointed August 20, 1990)
James C. Cornell, Jr.

Publications

Scientific Staff

Fred Adams
Yakov Alpert
Johannes Andersen
Alice Argon
Monique Arnaud
Eugene H. Avrett
James Babb
Robert W. Babcock
Sallie L. Baliunas
Eric Bloemhof
Raymond Blundell
Jay Bookbinder
Gerald Bottrell
Donato Bramanti
Roger Brissenden
Nelson Caldwell
Christopher Carilli
Nathaniel P. Carleton
Frederic Chaffee
Kelly Chance
John F. Chandler
Jon H. Chappell
Victor Chornenky

Allan F. Cook, II
Mario Cosmo
Andre Crusius-Wätzel
Luiz A.N. daCosta
Alexander Dalgarno
Thomas Dame
Lawrence P. David
James Davis
Robert J. Davis
Hendrik DeVries
Andrea K. Dupree
Martin S. Elvis
Robert Estes
Giuseppina Fabbiano
Daniel G. Fabricant
Ron Farren
Giovanni Fazio
George B. Field
Edward L. Fireman*
Kathryn Flanagan
William R. Forman
Fred A. Franklin
Daryl Freeman

*Deceased March 1990.

Gary Fuller
Michael R. Garcia
Larry Gardner
John C. Geary
Margaret Geller
Owen Gingerich
Isabella Gioia
Leon Golub
Daniel Gómez
Paul Gorenstein
Dale E. Graessle
Mario Grossi
Gordon Gullahorn
Alan H. Guth
Shadia Habbal
F. Rick Harnden, Jr.
Daniel E. Harris
Patrick Hartigan
Lee Hartmann
Akihiko Hashimoto
Andreas Heithausen
Paul T.P. Ho
John P. Hughes
Luigi Jacchia
David Johnson
Christine Jones-Forman
Kenneth Kalata
Wolfgang Kalkofen
Margarita Karovska
Edwin M. Kellogg
Almus Kenter
Scott Kenyon
Dong-Woo Kim
John L. Kohl
Robert Kurucz
Charles Lada
Elizabeth Lada
David W. Latham
Myron Lecar
Helen Leung
Alan Lightman
A. Edward Lilley
Enrico Lorenzini
Tommaso Maccacaro
Petrus C. Martens
Ursula Marvin
Colin Masson
Edward Mattison
Jeffrey E. McClintock
Richard E. McCrosky
Jonathan C. McDowell
Gary Melnick
Karl Menten
Marc Murison

Stephen S. Murray
Philip C. Myers
Tadashi Nakajima
Peter Nisenson
Charles Noecker
Robert W. Noyes
Birgitta Nordstrom
Costas Papaliolios
William Parkinson
Michael R. Pearlman
Reynier Peletier
James Phillips
Philip Pinto
Francis A. Primini
Harrison Radford
John C. Raymond
Mark Reid
Robert D. Reasenberg
Robert Rosner
Michael Rupen
George B. Rybicki
Barbara Ryden
Steven H. Saar
Rudolph Schild
Daniel A. Schwartz
Joseph Schwarz
Frederick D. Seward
Eric Silverberg
Patrick O. Slane
Jack W. Slowey
Noam Soker
Andrzej Soltan
Gregory Stacy
Clive Standley
Robert Stefanik
Clifford Stoll
Andrew Szentgyorgyi
Patrick Thaddeus
Eric V. Tollestrup
Wesley A. Traub
Genevra Trinchieri
Wallace H. Tucker
Giusseppe Vaiana
Adriaan van Ballegooijen
Leon P. Van Speybroeck
Robert F.C. Vessot
George Victor
Jan Vrtilek
Saega Dil Vrtilek
Terrence Walker
John Wardle
Trevor Weekes
Shen Wei
Steven Weinberg

Heinz Weiser
Fred L. Whipple
Barbara Whitney
Charles A. Whitney
Belinda J. Wilkes
Steven P. Willner

Anna Wolter
Douglas Wood
John A. Wood
Diana Worrall
Kouichi Yoshino
Martin Zombeck

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

Director
Acting Assistant Director
Administrative Officer
Facilities Manager

David L. Correll
Anson H. Hines
Helen M. Dalaski
Paul Tavel

Program Assistants for Public Information

Education Specialist
Docent Coordinator

A. Mark Haddon
Linda M. Chick

Research Scientists

Animal Ecologists

William Carmen
Joseph Dineen
Ana Dittel
Richard Everett
Anson H. Hines
Junda Lin
James F. Lynch
Gregory Ruiz
L. David Smith
Nancy Staub
Panchabi Vaithiyanathan
Vacant
Thomas E. Jordan
Geoffrey G. Parker
John R. Dolan
Charles L. Gallegos
Donald E. Weller
Timothy Spira
J. T. A. Verhoeven
Lisa K. Wagner
Zhigang Wang
Dennis F. Whigham
Jess Zimmerman
Felix Dakora
Bert G. Drake
Grace Ju
David Lawlor
Stephen Long

Chemical Ecologist
Environmental Engineer
Ecologists

Microbial Ecologist

Modeler
Plant Ecologists

Plant Physiologist

SMITHSONIAN INSTITUTION ARCHIVES

Archivist	William W. Moss
Historian	Pamela M. Henson
Associate Archivists	Alan L. Bain
	William A. Deiss
	Diane L. Vogt-O'Connor
Assistant Archivists	William E. Cox
	Susan W. Glenn
	R. Shawn Johnstone
	James A. Steed

SMITHSONIAN INSTITUTION LIBRARIES

Director	Barbara J. Smith
Deputy Director	Vija L. Karklins
Planning & Administration Office	
Manager	Mary Augusta Rosenfeld
Administrative Officer	Laudine L. Creighton
Publications Officer	Nancy L. Matthews
Automated Systems Division	
Deputy Director and Division Manager	Vija L. Karklins
Systems Administrator	Thomas Garnett
Asst. Systems Administrator	Marcia Adams
Computer Equipment Specialist	Mimi Scharf
Automated Bibliographic Control Unit	
Chief Librarian	Victoria Avera
Catalogue Records Unit	
Chief Librarian	Sheila Riley
Librarian	Thomas Baker
Original Cataloging & Indexing Services Unit	
Chief Librarian	Helen Nordberg
Cataloguer	Margaret A. Sealor
Cataloguer	Margaret D'Ambrosio
Cataloguer	Jacqueline Coleburn
Cataloguer, Special Collections	Mary L. Elder
Research Services Division	
Assistant Director & Division Manager	Bonita D. Perry
Cooper-Hewitt Museum Branch	
Chief Librarian	Stephen Van Dyk
Smithsonian Astrophysical Observatory Branch	
Chief Librarian	Joyce Rey-Watson
Smithsonian Tropical Research Institute Branch	
Chief Librarian	Vielka Chang-Yau
Central Services Unit	
Central Reference & Loan Services	
Chief Librarian and Unit Manager	Maureen L. Canick
Reference Librarian	Nancy Seeger
Reference Librarian	Catherine D. Scott
Circulation & Loan Librarian	Patricia Lasker

Museum Reference Center Chief Librarian	Sylvia Churgin
Museum Support Center Chief Librarian Reference Librarian	Kimberly B. Kelley Angela N. Haggins
History and Art Unit National Museum of American History Chief Librarian & Unit Manager Reference Librarian Circulation Librarian	Rhoda S. Ratner Bridget Mathews James Roan
Office of Horticulture Branch Chief Librarian Reference Librarian	Susan R. Gurney Marca Woodhams
Natural Sciences Unit Natural Museum of Natural History Chief Librarian & Unit Manager Reference Librarian Reference Librarian Reference Librarian Reference Librarian Reference Librarian	Ann Juneau Ruth F. Schallert Mary Kay Davies Robert J. Skarr David T. Steere, Jr. Mayda Riopedre
National Zoological Park Branch Chief Librarian	Kay A. Kenyon
Smithsonian Environmental Research Center Chief Librarian	Branch Angela N. Haggins
Physical Sciences Unit National Air & Space Museum Chief Librarian & Unit Manager Reference Librarian Reference Librarian Technical Information Specialist	Martin A. Smith Amy E. Levin David M. Spencer Philip D. Edwards
Collections Management Division	
Assistant Director & Division Manager	Nancy E. Gwinn
Acquisitions Services Unit Chief Librarian Assistant Chief Librarian	Pauline T. Lesnik Lucien R. Rossignol
Special Collections Chief Librarian & Exhibitions Officer Reference Librarian	Ellen B. Wells Leslie Overstreet
Book Conservation Laboratory Chief Conservator	John H. Hyltoft
Preservation Services Head, Preservation Services Head, Binding Section	[vacancy] James E. Lawson
Research Associate Research Associate	Silvio A. Bedini Jean Chandler Smith

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

Director	Ira Rubinoff
Deputy Director	Eric A. Fischer (resigned 09/90)
Assistant Director for Terrestrial Research	Alan P. Smith
Assistant Director for Marine Research	John H. Christy
Senior Scientist	Martin H. Moynihan
Special Assistant to the Director	Elena Lombardo (until 11/89)
Assistant Director for External Affairs	Elena Lombardo (began 12/89)
Conservation Resources Manager	Gilberto Ocaña
Development Officer	Edgardo Maravi
Facilities Engineer	Carlos Tejada
Executive Officer	Leonor Motta
Chief, Procurement Section	Mercedes Arroyo
Personnel Specialist	Carmen Sucre
Education/Information Specialist	Georgina de Alba
Visitor Services Manager	Gloria Maggiori (began 07/90)

SCIENTIFIC STAFF

Eldredge Bermingham	A. Stanley Rand
Richard G. Cooke	D. Ross Robertson
Mireya Correa	David W. Roubik
William G. Eberhard	Noris Salazar (began 04/90)
Robin Foster	Neal G. Smith
Jeremy B.C. Jackson	Nicholas Smythe
Nancy Knowlton	Mary Jane West-Eberhard
Egbert G. Leigh, Jr.	Donald M. Windsor
Harilaos A. Lessios	Hindrik Wolda
Olga F. Linares	S. Joseph Wright
Dolores Piperno	

RESEARCH ASSOCIATES

Annette Aiello	Robin Andrews
----------------	---------------

Tomás Arias
Peter Ashton
Carlos Arellano Lennox
John Bort
Gordon M. Burghardt
Luis D'Croz
Philip DeVries
Nathan Gale
Pedro Galindo
Judy Gradwohl
Jeffrey B. Graham
Stanley Heckadon

Stephen P. Hubbell
Leslie Johnson
Ernst Mayr
Jorge Motta
Anthony Ranere
Michael Ryan
Myra Shulman
W. John Smith
F. Gary Stiles
Henry Stockwell
Paulo E. Vanzolini

OFFICE OF ASSISTANT SECRETARY FOR MUSEUMS

Assistant Secretary for Museums
Deputy Assistant Secretary
for Museums
Program Manager
Program Manager
Special Assistant
Special Assistant
Program Analyst
Program Analyst
Director, Experimental Gallery
Director, African American
Institutional Study

Tom L. Freudenheim
Elaine Heumann Gurian*
Barbara K. Schneider
Beverly Lang Pierce
Maureen Robinson
Jane Glaser
Thomas J. Peyton
Patricia A. DuVall
Kimberly Camp
Claudine K. Brown

*through August 1990

ANACOSTIA MUSEUM

Acting Co-Directors
Chief of Research
Historians
Chief of Education
Photographer
Registrar

Sharon A. Reinckens
James E. Mayo
Vacant
Edward Smith
Portia James
Zora Martin-Felton
Harold Dorwin
Jennifer Kilman

ARCHIVES OF AMERICAN ART

Washington Headquarters Office

Director
Deputy Director
Assistant Director
Curator Emeritus and Journal Editor
Curator of Manuscripts
Research Services Chief
Regional Collector

Richard J. Wattenmaker
Susan Hamilton
James B. Byers
Garnett McCoy
Arthur Breton
Judy E. Throm
Liza Kirwin

New York Headquarters Office

Deputy Director
Development Officer
Membership Manager

Susan Hamilton
Marita O'Hare
Nancy Palubniak

Regional Centers

New York Regional Center Director
New England Regional Center Director
Midwest Regional Center Director
West Coast Regional Center Director

William McNaught
Robert Brown
Judith Gustafson
Paul Karlstrom

ARTHUR M. SACKLER GALLERY and FREER GALLERY OF ART

Director
Associate Director
Assistant Director, Administration
Assistant Director, Arthur M.
Sackler Gallery
Assistant Director, Exhibitions
and Facilities
Curator, Chinese Art
Associate Curator, Ancient
Chinese Art
Assistant Curator, Chinese Art
Associate Curator, Japanese Art
Curator, Near Eastern Art
Assistant Curator, Ancient
Near Eastern Art
Assistant Curator, South and
Southeast Asian Art
Assistant Curator, American Art
Assistant Curator, Ceramics
Senior Research Scholar
Historian
Head, Conservation and Scientific
Research
Senior Conservator
Head, East Asian Painting Conservation
Head, Design and Installation
Head, Development
Head, Education
Head, Library
Head, Merchandising and Marketing
Head, Photography
Head, Public Affairs
Head, Publications
Head Registrar, Freer
Head Registrar, Sackler

Milo C. Beach
Richard Louie
Sarah L. Newmeyer

Forrest McGill

Patrick H. Sears, III
Shen C. Y. Fu

Jenny F. So
Jan Stuart
Ann Yonemura
Glenn D. Lowry

Ann C. Gunter

Carol Bolon
Linda L. Merrill
Louise A. Cort
Thomas Lawton
Esin Atil

W. Thomas Chase, III
Paul R. Jett
Ryo Nishiumi
John Zelenik
Laurel A. Muro
Lucia B. Pierce
Lily Kecskes
Sally Guaragna
Kim Nielsen
Susan Bliss
Karen Sagstetter
Eleanor Radcliffe
Bruce Young

CONSERVATION ANALYTICAL LABORATORY

Director	Lambertus van Zelst
Deputy Director	Alan W. Postlethwaite
Administrative Officer	Vernetta M. Williams
Administrative Assistant	Beverly M. Smith
Secretary	Loretta E. Ester
Secretary	Francine T. Hall
Secretary	Recruiting

Archaeometry

Assistant Director for Archaeometry	Jacqueline S. Olin
SARCAR Manager & Sr. Res. Archaeologist	Ronald L. Bishop
Research Art Historian	Ingrid C. Alexander
Senior Research Chemist	M. James Blackman
Senior Research Physicist	Yu-Tarn Cheng
Metallurgist	Martha E. Goodway
Chemist	Emile C. Joel
Senior Ceramic Scientist	Pamela B. Vandiver

Conservation Research

Assistant Director for Cons. Research	Marion F. Mecklenburg
Head, Analytical Services	Charles S. Tumosa
Analytical Chemist	Vacant
Analytical Chemist	Vacant
Analytical Chemist	Vacant
Electron Microscopist	Melanie T. Feather
Senior Research Organic Chemist	David W. von Endt
Senior Research Organic Chemist	W. David Erhardt
Research Organic Chemist	Mary T. Baker
Organic Chemist	Walter H. Hopwood
Senior Research Photographic Scientist	Mark H. McCormick-Goodhart
Research Biochemist	Noreen C. Tuross
Technician, Mechanics of Materials	Recruiting

Conservation Treatment and Training

Senior Furniture Conservator	Donald C. Williams
Furniture Conservator	Melvin J. Wachowiak
Senior Objects Conservator	Carol A. Grissom
Objects Conservator	Harriet F. Beaubien
Senior Painting Conservator	Roland H. Cunningham
Painting Conservator	Jia-Sun Tsang
Senior Paper Conservator	Diane van der Reyden
Senior Paper Conservator	Timothy J. Vitale
Senior Textile Conservator	Mary W. Ballard
Coordinator, Education & Training	Eleanor McMillan

Information

Senior Technical Information Specialist	Marjorie W. Cleveland
Technical Information Specialist	Ann B. Johnson
Conservator	Mary Lou Garbin

COOPER-HEWITT NATIONAL MUSEUM OF DESIGN

Director	Dianne H. Pilgrim
Assistant Director for Administration	Linda Dunne
Special Assistant to Director	Caroline Mortimer
Administrative Specialist	Hilda Lee
Assistant Development Officer	Sara MacAllaster
Curator of Decorative Arts	David Revere McFadden
Assistant Curator of Decorative Arts	Deborah Shinn
Acting Curator of Drawings and Prints	Gail Davidson
Museum Technician for Drawings & Prints	vacant
Curator of Textiles	Milton Sunday
Assistant Curator of Textiles	Gillian Moss
Museum Technician for Wallcoverings	Joanne Kosuda Warner
Curator of Exhibitions	Dorothy Globus
Exhibition Researcher	Lucy Fellowes
Librarian	Stephen Van Dyk
Paper Conservator	Konstanze Bachmann
Textile Conservator	Lucy Commoner
Editor	Nancy Aakre
Assistant Editor	Cynthia Plaut
Program Coordinator	Susan Yelavich
Assistant Program Coordinator	Dorothy Dunn
Program Assistant	Gwen Loeffler
Public Information Officer	Arthur Lindo
Membership Coordinator and Special Events Coordinator	Michele Raphoon
Registrar	Cordelia Rose
Assistant Registrar	Steven Langehough
Automation Services Manager	Jay Vanatta
Museum Shop Manager	Matt Hahn
Operation Manager	Barry Johnson
Chief of Security	Luis Palau

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Director	James T. Demetrion
Deputy Director	Stephen E. Weil
Executive Officer	Nancy Kirkpatrick
Chief Curator for Exhibitions	Ned Rifkin
Curator of Paintings	Judith K. Zilczer
Curator of Prints/Drawings	Frank B. Gettings
Curator of Sculpture	Valerie J. Fletcher
Associate Curator	Phyllis Rosenzweig
Assistant Curator	Amada Cruz
Publications Manager	Barbara J. Bradley
Librarian	Anna Brooke
Chief Conservator	Laurence Hoffman
Conservators	Leland Aks
	Clarke Bedford
	Susan Lake
	Meredith Michelson Wippman
Registrar	Douglas Robinson
Chief, Exhibits and Design	Edward Schiesser
Chief, Education	Edward Lawson
Public Information Officer	Sidney Lawrence
Photographer	Lee Stalsworth
Building Manager	Frank Underwood

NATIONAL AIR AND SPACE MUSEUM

Director	Martin Harwit
Acting Associate Director	Wendy Stephens
Special Assistant to Director	Steven Soter
Senior Advisor to Director	Donald S. Lopez
Development Office	
Assistant Director	John M. Carlin
Assistant for Special Projects	Brian M. Duff
Development Officer	Susan Beaudette
Special Events	Darlene Rose-Barge
	Kathleen Spraggins
Department of Aeronautics	
Chairman	Tom Crouch
Special Advisor for Technology	Howard S. Wolko
Senior Curator	Robert C. Mikesh
Curators	R.E.G. Davies
	Von D. Hardesty
	Peter Jakab
	Dominick A. Pisano
	F. Robert van der Linden
Historian Emeritus	Paul E. Garber
Center for Earth and Planetary Studies	
Acting Chairman	Thomas G. Watters
Geologists	Robert A. Craddock
	Patricia Jacobberger
	Michael J. Tuttle
	James R. Zimbleman
Program Manager	Priscilla L. Strain
Department of Space History	
Chairman	Gregg Herken
Curators	Paul E. Ceruzzi
	David DeVorkin
	Cathleen S. Lewis
	Allan A. Needell
	Frank Winter
Assistant Curators	Derek W. Elliott
Historian	Robert W. Smith
Laboratory for Astrophysics	
Chairman	Howard A. Smith
Astrophysicists	Jeffrey J. Goldstein
	Matthew Greenhouse

Interpretive Programs	
Assistant Director	James H. Sharp
Cooperative Programs	Helen C. McMahon
Education	Jan McColl
Minority Outreach	M. Antoinette Amos
Planetarium	James H. Sharp
Art Department	
Chairperson	Mary S. Henderson
Office of Communications	
Assistant Director	Rita C. Cipalla
Publications	Patricia J. Graboske
Collections Management	
Assistant Director	Linda N. Ezell
Archives	Thomas Soapes
Collections Maintenance	Alfred J. Bachmeier
Conservation	Ed McManus
Preservation and	
Restoration Division	Richard D. Horigan
Registrar	Robin A. Schroffel
Administration	
Acting Administrative Officer	Alice M. Adams
Administrative Specialist	Theresa A. Cecil
Budget Analyst	Samuel Dargan
Exhibits	
Assistant Director	Nadya A. Makovenyi
Audiovisual Unit	David N. Heck
Design Unit	Lucius E. Lomax
Production Unit	Derek P. Fiedler
Museum Operations	
Assistant Director	Edmund T. Wooldridge
Deputy Assistant Director	
for Museum Operations	Ronald E. Wagaman
Museum Facilities Manager	C. Ray Phillips
Office of Computer Services	Alfred T. Kincaid
Special Assistant for Plans	
and Programs	Claude D. Russell
Theater and Planetarium	
Operations Manager	Steven C. Fitch

NATIONAL MUSEUM OF AFRICAN ART

Director
Associate Director
 for Collections and Research
Assistant Director
Chief Curator
Curators

Public Affairs Officer
Curator of Education
Chief, Exhibits Department
Registrar
Conservator
Curator of Archives
Librarian
Writer/Editor
Founding Director Emeritus
 and Senior Scholar

Sylvia H. Williams

Roy Sieber
Jean M. Salan
Philip Ravenhill
Lydia Puccinelli
Roslyn A. Walker
Janice L. Kaplan
Edward Lifschitz
Alan Knezevich
Grace Eleazer
Stephen Mellor
Christraud M. Geary
Janet Stanley
Dean Trackman

Warren Robbins

NATIONAL MUSEUM OF AMERICAN ART

Director	Elizabeth Broun
Deputy Director	Charles J. Robertson
Chief Curator	Virginia Mecklenburg
Conservator	Fern Bleckner
Conservator	Ann M. Creager
Curator	Merry A. Foresta
Conservator	Helen B. Ingalls
Conservator	Catherine I. Maynor
Curator	Joann G. Moser
Curator	Richard Murray
Curator	Harry Z. Rand
Conservator	Quentin R. Rankin, Jr.
Senior Conservator	Stefano Scafetta
Curator	William H. Truettner
Curator-in-Charge, Renwick Gallery	Michael Monroe
Public Programs Coordinator	Allen B. Bassing
Acting Chief, Research & Scholars Center	Rachel M. Allen
Intern Program Officer	Patricia H. Chieffo
Research Curator	Lois M. Fink
Acting Chief, Educational Programs	Nora Panzer
Public Programs Coordinator	Gwendolyn F. Everett
Acting Chief, Office of Registration and Collections Management	Melissa Kroning
Exhibitions Coordinator	Kathleen McCleery
Assistant Registrar	Michael R. Smallwood
Collections Manager	Abigail Terrones
Acting Chief, Office of Design & Production	Val Lewton
Designer	Allan K. Kaneshiro
Designer	Georgine S. Reed
Chief, Office of Publications	Steve Dietz
Editor	Richard E. Carter
Editor	Lisa C. Siegrist
Editor	Terence Winch
Administrative Officer	Maureen Damaska
Administrative Specialist	James R. Gaglione
Chief, Office of External Affairs	W. Robert Johnston
Public Affairs Officer	Margery A. Byers
Special Events Assistant	Barbara M. Cox

NATIONAL MUSEUM OF AMERICAN HISTORY

Office of the Director

Director
Deputy Director
Associate Director
Assistant Director for
Finance & Personnel
Administrative Specialist
Special Assistants

Roger G. Kennedy
Douglas E. Evelyn
Ronald E. Becker

Elizabeth E. Greene
Shirley Vann
Naomi Glass
James D. Whoolery

Office of External Affairs

Director
Public Affairs
Special Events

Marilyn Lyons
Susan Foster
Elizabeth Little
Anne Spivak

National Numismatic Collection

Executive Director
Deputy Executive Director
Curator

Elvira Clain-Stefanelli
Cory C. Gilliland
Richard Doty

National Philatelic Collection

Executive Director
Deputy Executive Director

Herbert R. Collins
James H. Bruns

Afro-American Communities Project

Director

James O. Horton

Archives Center

Chief Archivist
Deputy Archivist
Archivists

John Fleckner
Robert Harding
Craig Orr
Barbara Humphrys
David Haberstich
Marilyn Graskowiak
Reuben Jackson
Fath Davis Ruffins

Historian

Office of Building Management

Building Manager

Richard A. Day

Computer Services Center

Chief

Dennis S. Dickinson

Division of Conservation

Head Conservator
Conservators

J. Scott Odell
Martin Burke
Andrzej Dajnowski
Antoinette Dwan
Lynne Gilliland
Nikki Horton
Beth Richwine
Suzanne Thomassen-Krauss
Paulette Willman

Department of Exhibits

Assistant Director for Exhibits
and Public Spaces
Deputy Assistant Director
for Exhibits and Public Spaces
Chief, Design Division
Chief, Exhibits Production
Chief, Historic Restoration

J. Michael Carrigan
Richard J. Nicastro
Dru Colbert
Robert H. Norton
Terrence Conable

Department of Public Programs

Assistant Director for
Public Programs
Deputy Assistant Director for
Public Programs
Program Manager
Director, Program in African
American History
Director, Division of Museum Programs
Director, Publications Division
Coordinator, Columbus Quincentenary
Program
Intern Program Coordinator

Lonn Taylor
Elizabeth Sharpe
Harold Closter
Gwendolyn Robinson
Dwight Blocker Bowers
Robert D. Selim
Lisa Falk
Mary Dyer

Office of the Registrar

Assistant Director for
Collections Management
Assistant Registrar

Martha Morris
Katherine P. Spiess

Office of Academic Programs

Director

Gary Kulik

Department of the History of Science and Technology

Chairman

Arthur P. Molella

American Indian Program

Director

Rayna Green

Division of Agriculture and Natural Resources

Curators

Pete Daniel
G. Terry Sharrer

Division of Armed Forces History

Curators

Edward C. Ezell
Donald E. Kloster
Harold D. Langley
James Hutchins
Philip Lundeberg

Historian
Curator Emeritus

Division of Biological Sciences

Curators

Patricia Gossel
Linda Tucker

Division of Computers, Information, and Society

Curators

David Allison
Jon B. Eklund

Division of Electricity and Modern Physics

Curators

Bernard Finn
Paul Forman

Division of Engineering and Industry

Curators

Carlene E. Stephens
Steve Lubar
Jeffrey Stine

Division of Medical Sciences

Curators

Audrey B. Davis
Ramunas A. Kondratas

Division of Physical Sciences

Curators

Deborah J. Warner

Division of Transportation

Curators

William L. Withuhn
Paul Johnston
John H. White

Curator Emeritus

Senior Historian's Office

Senior Historian

Nathan Reingold

Technology and Culture

Editor

Robert Post

Department of Social and Cultural History

Chairman

Spencer Crew

Afro-American Index Project

Program Specialist

Vacant

Division of Ceramics and Glass

Curator

Susan H. Myers

Division of Community Life

Curators

Richard E. Ahlborn
Lonnie Bunch
Charles McGovern
Bernice Johnson Reagon

Division of Costume

Curator

Claudia B. Kidwell
Anne W. Murray

Curator Emeritus

Division of Domestic Life

Curators

Anne C. Golovin
Rodris C. Roth
Barbara C. Smith

Division of Graphic Arts

Curators

Elizabeth M. Harris
Helena C. Wright

Division of Musical History

Curators

John T. Fesperman
John E. Hasse
Cynthia A. Hoover
James Weaver

Division of Photographic History

Curator

Eugene Ostroff

Division of Political History

Curators

Edith P. Mayo
Keith E. Melder
Margaret B. Klapthor

Curator Emeritus

Division of Textiles

Curator

Rita J. Adrosko

NATIONAL MUSEUM OF NATURAL HISTORY

Director
Deputy Director
Acting Deputy Director
Assistant Director for Special
 Projects
Assistant Director for Programs
Special Assistant to the Director
Special Assistant to Acting
 Deputy Director
Associate Director for Science
Assistant Director for
 Administration
Administrative Specialist
Administrative Specialist
Associate Director for Public
 Programs
Acting Assistant Director
 for Education
Assistant Director for Exhibits
Assistant to the Deputy Director/
 Physical Plant
Director, Quincentenary Programs
Assistant Director for Development
Development Officer
Public Information Officer
Public Affairs Specialist
Special Events Coordinator

Science Program Administrator
Assistant Director for the
 Automatic Data Program
Assistant Director for Collections
Registrar
Building Manager
Supervisory Museum Specialist,
 Scanning Electron Microscope
 Laboratory
Project Director, Biological
 Dynamics of Forest Fragments
Science Director, Neotropical
 Biodiversity Program

DEPARTMENT OF ANTHROPOLOGY

Chairman
Deputy Chairman
Administrative Specialist
Public Information Specialist

Frank H. Talbot
James C. Tyler
Stanwyn G. Shetler

Catherine J. Kerby
Stanwyn G. Shetler
Margaret P. Anderson

Dianne Niedner
Daniel Appleman

Mary Rakow Tanner
Danielle Bielenstein
Nella F. Lloyd

Robert Sullivan

Laura McKie
Laurence P. O'Reilly

Jerome A. Conlon
Herman J. Viola
T. C. Benson
Anne Parks
Thomas R. Harney
Pamela Baker
Judith Cash
Diana K. Wyatt
Marsha Sitnik

T. Gary Gautier
Janet Gomon
Margaret A. Santiago
Edward McCoy

Walter R. Brown

Richard O. Bierregaard, Jr.

Don E. Wilson

Donald J. Ortner
Melinda A. Zeder
Carole Lee Kin
Ann Kaupp

Handbook of North American Indians

General Editor	William C. Sturtevant
Managing Editor	Karla Billups
Production Manager	Diane Della-Loggia
Program Manager	Melvina Jackson
Anthropologist	Joanna Scherer
Bibliographer	Lorraine H. Jacoby
Linguist	R. H. Ives Goddard, III

Human Studies Film Archives

Division Head	Wendy Shay
---------------	------------

National Anthropological Archives

Acting Director	William L. Merrill
Senior Archivist	James Glenn
Archivist (Photos)	Paula Fleming

Ethnology Division

Division Head	Ivan Karp
Curator	Ives Goddard
Curator	Robert Laughlin
Curator	Adrienne Kaeppler
Curator	William Sturtevant
Associate Curator	Mary Jo Arnoldi
Associate Curator	William Crocker
Curator	William Merrill
Curator	Paul Taylor

Native American Program

Director	JoAllyn Archambault
----------	---------------------

Division of Archaeology

Division Head	Bruce D. Smith
Curator	William Trousdale
Curator	Gus Van Beek
Associate Curator	J. Daniel Rogers
Associate Curator	Theresa Singleton
Director (Paleo-Indian Program)	Dennis Stanford
Director (Arctic Program)	William Fitzhugh

Division of Physical Anthropology

Division Head	Douglas Ubelaker
Curator	Douglas Owsley
Curator	Richard Potts

Research Associates, Collaborators, and Affiliated Scientists

James M. Adovasio (Archeology)
Larry Banks (Archeology)
David Begun (Physical Anthropology)
Michael D. Blakey (Physical Anthropology)
Kathleen J. Bragdon (Linguistics)
Alison S. Brooks (Archeology)
Ernest S. Burch, Jr. (Archeology)
Aron Crowell (Archeology)
Edith Dietze (Ethnology)
Jean Paul Dumont (Ethnology)
John C. Ewers (Plains Ethnology)
John Fisher (Archeology)
Don D. Fowler (Archeology)
George Frison (Archeology)
Bruno Frohlich (Physical Anthropology)
Kathleen Gordon (Physical Anthropology)
James Griffin (Archeology)
C. Vance Haynes (Archeology)
Brian Hesse (Archeology)
William Holm (Ethnology)
Neil C. Hughes (Archeology)
Bennie C. Keel (Archeology)
Jennifer O. Kelley (Physical Anthropology)
Richard T. Koritzer (Physical Anthropology)
Paulina Ledergerber (Archeology)
Jerald T. Milanich (Archeology)
Chris Nagle (Archeology)
Michael O'Brien (Archeology)
Michael Petraglia (Physical Anthropology)
Stephen Potter (Archeology)
James Price (Archeology)
Bruce D. Ragsdale (Pathology)
Leslie Rankin-Hill (Physical Anthropology)
Mary Elizabeth Reeve (Ethnology)
Lucile E. St. Hoyme (Physical Anthropology)
Abelardo Sandoval (Archeology)
Robert G. Schmidt (Geology)
T. Dale Stewart (Physical Anthropology)
Maurizio Tosi (Archeology)
John Verano (Physical Anthropology)
Alan Walker (Paleoanthropology)
Paula Wapnish (Archeology)
Mildred M. Wedel (Archeology and Ethnohistory)
Waldo R. Wedel (Archeology)
Rita Wright (Physical Anthropology)

DEPARTMENT OF BOTANY

Chairman
Administrative Assistant
Collections Manager
Senior Botanist

Laurence E. Skog
Linda Moreland
George F. Russell
Mark M. Littler

Phanerogams

Curators

Vicki A. Funk
Dan H. Nicolson
Stanwyn G. Shetler
Laurence E. Skog
Dieter C. Wasshausen
John J. Wurdack
Pedro Acevedo
Robert B. Faden
W. John Kress
Warren L. Wagner

Associate Curators

Ferns

Curator David B. Lellinger

Grasses

Curator Paul M. Peterson

Cryptogams

Curators James N. Norris
Harold E. Robinson

Associate Curators Maria A. Faust
Elizabeth Zimmer

Palynology

Curator Joan W. Nowicke

Research Associates, Collaborators, and Affiliated Scientists

Katina Bucher (Algae)	Joseph H. Kirkbride, Jr.
George Bunting (Araceae)	(Rubiaceae)
Pamela Burns-Balogh (Orchidaceae)	Elbert L. Little, Jr. (Dendrology)
Loren Coen (Marine Algae)	Diane S. Littler (Marine Algae)
Jose Cuatrecasas (Flora of Tropical South America)	Carlos Lopez-Ocana (Ecology)
Gerald F. Deitzer (Plant Physiology)	Ximena Londono (Bamboo)
James A. Duke (Flora of Panama)	Alicia Lourteig (Neotropical Botany)
Christian P. Feuillet (Gesneriaceae)	Carlos Ochoa (Solanum)
Anthony M. Fletcher (Lichens)	Yun-Sil Park (Lichens)
F. Raymond Fosberg (Tropical Island Plants)	John J. Pipoly (Plant Systematics)
Suzanne Fredericq (Gracilariaceae)	Thompson D. Pizzolato (Agrostology)
Aaron Goldberg (Phanerogams)	Muriel Poston (Loasaceae)
Charles R. Gunn (Seeds)	Clyde Reed (Phanerogams)
Otto Huber (Plant Ecology)	Velva Rudd (Legumes)
	Richard W. Spjut (Lichens)
	Phillip R. Taylor (Algae)

DEPARTMENT OF ENTOMOLOGY

Chairman
Collections Manager
Senior Scientist

Ronald J. McGinley
Gary F. Hevel
Karl V. Krombein

Coleoptera

Curator
Curator

Terry L. Erwin
Paul J. Spangler

Hemiptera

Curator

Richard C. Froeschner

Hymenoptera

Senior Scientist
Curator

Karl V. Krombein
Ronald J. McGinley

Lepidoptera

Curator
Curator
Associate Curator

John M. Burns
Don R. Davis
Robert K. Robbins

Myriapoda and Arachnida

Associate Curator

Jonathan A. Coddington

Neuropteroids and Diptera

Curator
Curator

Oliver S. Flint, Jr.
Wayne N. Mathis

Research Associates, Collaborators, and Affiliated Scientists

Joachim Adis (Coleoptera)
David H. Ahrenholz (Lepidoptera)
Annette Aiello (Lepidoptera)
Donald W. Anderson (Coleoptera)
Edward W. Baker (Acarina)
William E. Bickley (Diptera)
Harley P. Brown (Coleoptera)
Robert W. Carlson (Hymenoptera)
J. F. Gates Clarke (Lepidoptera)
Margaret S. Collins (Orthoptera)
Terhune S. Dickel (Lepidoptera)
Lance Durden (Siphonaptera)
Robert L. Edwards (Arachnida)
Neal F. Evenhuis (Diptera)
John H. Fales (Lepidoptera)
Candida Feller (Diptera)

Douglas C. Ferguson (Lepidoptera)
Richard H. Foote (Diptera)
Raymond J. Gagne (Diptera)
Robert D. Gordon (Coleoptera)
E. Eric Grissell (Hymenoptera)
Ralph E. Harbach (Diptera)
Bruce A. Harrison (Diptera)
Thomas J. Henry (Hemiptera)
Ronald W. Hodges (Lepidoptera)
Yiau-Min Huang (Diptera)
James E. Keirans (Ixodoidea)
John M. Kingsolver (Coleoptera)
Paul M. Marsh (Hymenoptera)
Arnold S. Menke (Hymenoptera)
Douglass R. Miller (Homoptera)
Scott E. Miller (Microlepidoptera)

Steve Nakahara (Thysanoptera)
David F. Nickle (Orthoptera)
Beth B. Norden (Hymenoptera)
Allen L. Norrbom (Diptera)
Paul A. Opler (Lepidoptera)
Philip Perkins (Coleoptera)
Robert V. Peterson (Diptera)
John T. Polhemus (Hemiptera/
Heteroptera)
Robert W. Poole (Lepidoptera)
John F. Reinert (Diptera)
Mark J. Rothschild (Homoptera)
Louise M. Russell (Homoptera)
Curtis W. Sabrosky (Diptera)
Silvia Santiago (Coleoptera)
Michael E. Schauff (Hymenoptera)

Petra Sierwald (Arachnida)
Robert L. Smiley (Acarina)
David R. Smith (Hymenoptera)
M. Alma Solis (Lepidoptera)
Theodore J. Spilman (Coleoptera)
Charles Staines (Coleoptera)
George C. Steyskal (Diptera)
Manya B. Stoetzel (Homoptera)
F. Christian Thompson (Diptera)
Robert Traub (Siphonaptera)
George Vogt (Coleoptera)
Ronald A. Ward (Medical Entomology)
Richard E. White (Coleoptera)
Norman E. Woodley (Diptera)
David Wooldridge (Coleoptera)
Frank N. Young (Coleoptera)

DEPARTMENT OF INVERTEBRATE ZOOLOGY

Chairman
Purchasing Agent
Administrative Assistant

C. W. Hart, Jr.
Roland H. Brown
Martha V. Joynt

Crustacea

Curators

J. Laurens Barnard
Thomas E. Bowman
Roger F. Cressey
C. W. Hart, Jr.
Robert P. Higgins
Brian F. Kensley
Louis S. Kornicker
Raymond B. Manning

Echinoderms and Lower Invertebrates

Curators

Frederick M. Bayer
Stephen D. Cairns
David L. Pawson
Klaus Ruetzler

Mollusks

Curators

Richard S. Houbrick
Clyde F. E. Roper
M. G. Harasewych
Robert Hershler

Associate Curators

Worms

Curators

Kristian Fauchald
W. Duane Hope
Mary E. Rice

Registry of Tumors in Lower Animals

Director	John Harshbarger
Biological Lab Technician	Sunthorn Sirivanakarn
Biological Research Technician	Norman Wolcott
Biological Lab Technician	Kathy Price
Research Assistant	Marilyn Slatick
Museum Specialist	Phyllis Spero

Research Associates, Collaborators, and Affiliated Scientists

J. Bruce Bredin	Charles G. Messing
Fenner A. Chace, Jr. (Emeritus Zoologist)	John E. Miller
Steven Chambers	Isabel Perez-Farfante (Canet)
Sing Chen Chang (Emeritus Zoologist)	Esther C. Peters
Elizabeth Chornesky	Richard E. Petit
Maureen E. Downey	Marian H. Pettibone (Emeritus Zoologist)
Joan D. Ferraris	Anthony J. Provenzano, Jr.
Stephen J. Gardiner	Harald A. Rehder (Emeritus Zoologist)
Terrence M. Gosliner	Janet W. Reid
Horton H. Hobbs, Jr. (Emeritus Zoologist)	I. G. Sohn
Lipke B. Holthuis	Ronald B. Toll
Meredith L. Jones (Emeritus Zoologist)	Michael Vecchione
J. Ralph Lichtenfels	Geerhart J. Vermeij
Patsy McLaughlin	Austin B. Williams
	David K. Young

DEPARTMENT OF MINERAL SCIENCES

Chairman	Jeffrey Post
Administrator	Ellen Thurnau

Meteorites

Curator	Roy S. Clarke, Jr.
Associate Curator	Glenn J. MacPherson
Geochemist	Kurt Frederiksson

Mineralogy

Curator	John Sampson White
Associate Curator	Jeffrey Post
Crystallographer	Daniel E. Appleman
Associate Curator	Michael A. Wise

Petrology and Volcanology

Curators

Richard S. Fiske
William G. Melson
Tom Simkin
Sorena Sorensen

Associate Curator

Physical Sciences Laboratory

Chemists

Eugene Jarosewich
Joseph A. Nelen

Electronics Technician

James E. Collins

Scientific Events Alert Network

Museum Specialist

Lindsay R. McClelland

Research Associates, Collaborators, and Affiliated Scientists

Vagn F. Buchwald (Meteorites)

Cathy Busby-Spera (Petrology)

Gary R. Byerly (Petrology)

Felix Chayes (Petrology and
Volcanology)

Robert T. Dodd (Meteorites)

John Filson (Petrology and
Volcanology)

Michael Fleischer (Mineralogy)

Martin Flower (Petrology and
Volcanology)

Edward Henderson (Meteorites)

Peter Levens (Mineralogy)

Brian H. Mason (Meteorites)

Paul B. Moore (Mineralogy)

Debra S. Stakes (Petrology and
Volcanology)

Geoffrey Thomson (Petrology and
Volcanology)

Othmar T. Tobisch (Petrology and
Volcanology)

DEPARTMENT OF PALEOBIOLOGY

Chairman

Jack W. Pierce

Curators Emeritus

(Not in Residence)

Richard S. Boardman

G. Arthur Cooper

Porter M. Kier

Betty M. Lomax

Frederick J. Collier

Jann W. M. Thompson

Administrative Assistant

Collections Manager

Deputy Collections Manager

Paleobiological Information

Specialist

Raymond T. Rye II

Scientific Illustrator

Mary A. Parrish

Vertebrate Paleontology

Preparation Laboratory,

Acting Supervisor

Frederic V. Grady

Senior Scientists

Geologists

Curators

Associate Curators

Richard H. Benson
Alan H. Cheetham
Richard E. Grant
Daniel J. Stanley
Kenneth M. Towe
Ian G. Macintyre
Walter H. Adey
Anna K. Behrensmeyer
Martin A. Buzas
William A. DiMichele
Robert J. Emry
Nicholas Hotton III
Francis M. Hueber
Jack W. Pierce
Clayton E. Ray
Thomas R. Waller
Douglas H. Erwin (Appointed
7/15/90)
Brian T. Huber
Scott L. Wing

Research Associates, Collaborators, and Affiliated Scientists

Jean M. Berdan
Raymond L. Bernor
Annalissa Berta
Robyn Burnham
Sankar Chatterjee
James M. Clark
Stephen J. Culver
John D. Damuth
Ted E. Delaca
Sherri L. DeFauw
Daryl P. Domning
Raymond C. Douglass
J. Thomas Dutro, Jr.
Ralph E. Eshelman
Karl W. Flessa
Thomas G. Gibson
Mackenzie Gordon, Jr.
Richard R. Graus
S. Taseer Hussain
Carl F. Koch

Jerry P. MacDonald
Sergius H. Mamay
Jerry N. McDonald
Robert B. Neuman
William A. Oliver, Jr.
David B. Packer
John Pojeta, Jr.
Kenneth D. Rose
Bruce Runnegar
William J. Sando
Judith Skog
Norman F. Sohl
I. Gregory Sohn
Hans-Dieter Sues
Joshua I. Tracey, Jr.
Frank C. Whitmore, Jr.
Druid Wilson
Christopher Wnuk
Ellis L. Yochelson

DEPARTMENT OF VERTEBRATE ZOOLOGY

Chairman
Administrative Assistant
Collections Managers

Richard W. Thorington, Jr.
Sybil Descheemaeker
J. Phillip Angle
Elyse J. Beldon
Linda K. Gordon
Susan L. Jewett
Charles W. Potter
Jeffrey T. Williams

Fishes

Curators

G. David Johnson
Victor G. Springer

Richard P. Vari
Stanley H. Weitzman

Assistant Curator

Lynne R. Parenti

Amphibians and Reptiles

Curators

W. Ronald Heyer

George R. Zug

Assistant Curator

Kevin de Queiroz

Birds

Curators

Storrs L. Olson

Richard L. Zusi

Assistant Curator

Gary R. Graves

Mammals

Curators

Michael D. Carleton
Charles O. Handley, Jr.

James G. Mead
Richard W. Thorington, Jr.

Office of the Secretary Emeritus

Secretary Emeritus
Museum Specialist
Administrative Assistant
Secretary

S. Dillon Ripley
Bruce M. Beehler
Mary T. Pacaro
Rachel A. Simpson

Research Associates, Collaborators, and Affiliated Scientists

Ronald G. Altig (Amphibians
and Reptiles)
Richard C. Banks (Birds)
Aaron M. Bauer (Amphibians
and Reptiles)
Jonathan J. Becker (Birds)
Bruce M. Beehler (Birds)
Heraldo A. Britski (Fishes)
Eleanor D. Brown (Birds)
Robert L. Brownell, Jr.
(Mammals)

John Cadle (Amphibians
and Reptiles)
Peter F. Cannell (Birds)
Roger B. Clapp (Birds)
Bruce B. Collette (Fishes)
G. Ken Creighton (Mammals)
C. Kenneth Dodd, Jr.
(Amphibians and Reptiles)
Louise H. Emmons (Mammals)
Per Ericson (Birds)

Carl H. Ernst (Amphibians and Reptiles)	Thomas A. Munroe (Fishes)
Sara V. Fink (Fishes)	Hidetoshi Ota (Amphibians and Reptiles)
William L. Fink (Fishes)	William F. Perrin (Mammals)
Mercedes S. Foster (Birds)	Allan R. Phillips (Birds)
John G. Frazier (Mammals)	Gregory K. Pregill (Amphibians and Reptiles)
Thomas H. Fritts (Amphibians and Reptiles)	John E. Randall (Fishes)
Alfred L. Gardner (Mammals)	Randall R. Reeves (Mammals)
J. Whitfield Gibbons (Amphibians and Reptiles)	S. Dillon Ripley (Birds)
Michael Goulding (Fishes)	Sentiel Rommel (Mammals)
Richard Highton (Amphibians and Reptiles)	Carol Ruckdeschel (Amphibians and Reptiles)
Robert S. Hoffmann (Mammals)	Norman J. Scott, Jr. (Amphibians and Reptiles)
Peter W. Houde (Birds)	William F. Smith-Vaniz (Fishes)
Morton and Phyllis Isler (Birds)	Thomas W. Stafford, Jr. (Birds)
Richard F. Kay (Mammals)	David W. Steadman (Birds)
Irving L. Kornfield (Fishes)	Kenneth J. Sulak (Fishes)
William H. Krueger (Fishes)	Ian R. Swingland (Amphibians and Reptiles)
Roxie C. Laybourne (Birds)	James C. Tyler (Fishes)
Roy W. McDiarmid (Amphibians and Reptiles)	Ann W. Vari (Fishes)
Antonio Machado-Allison (Fishes)	Merrill Varn (Mammals)
Francisco Mago-Leccia (Fishes)	Richard J. Wassersug (Amphibians and Reptiles)
Joe T. Marshall (Birds)	Marilyn Weitzman (Fishes)
Linda R. Maxson (Amphibians and Reptiles)	John S. Weske (Birds)
Bruce D. Means (Amphibians and Reptiles)	Edward O. Wiley (Fishes)
Naercio A. Menezes (Fishes)	James D. Williams (Fishes)
Joseph C. Mitchell (Amphibians and Reptiles)	Don E. Wilson (Mammals)
	W. Chris Wozencraft (Mammals)

SMITHSONIAN OCEANOGRAPHIC SORTING CENTER

Director	Ernani G. Menez
Administrative Assistant	Patricia K. Buckley

Marine Biologists

Frank D. Ferrari	Ernani G. Menez
Leslie W. Knapp	Jon L. Norenburg
Rafael Lemaitre	

SMITHSONIAN MARINE STATION AT LINK PORT

Director	Mary E. Rice
Administrative Assistant	Joan L. Kaminski

Research Assistants

William D. Lee	Sherry Anne Reed
Julianne Piraino	Hugh F. Reichardt

MUSEUM SUPPORT CENTER

Director
Administrative Specialist
Data Administrator
Facility Manager
Assistant Facility Manager
Chief, Information Management
Section

U. Vincent Wilcox
Patti B. Young
Joan B. Andrews
Charles E. Dunn
George Bolden

David Bridge

LABORATORY OF MOLECULAR SYSTEMATICS

Director
Botanist/Curator
Administrative Specialist
Biological Laboratory Technician

Michael J. Braun
Elizabeth A. Zimmer
JoAnne Ciprich
Judith Blake

NATIONAL MUSEUM OF THE AMERICAN INDIAN

Director
Deputy Director
Deputy Director for Administration and Budget
Deputy Director for Public Program Planning
Project Manager, George Gustav Heye Center
1992 Exhibition

W. Richard West, Jr.
Dave Warren
Jean Salan
Elaine Heumann Gurian*
James W. Volkert

*appointed September 1990

NATIONAL PORTRAIT GALLERY

Director
Assistant Director for Collections
Assistant Director for History and
Public Programs (to 8/10/90)
Executive Officer
Curator of Painting and Sculpture
Curator of Exhibitions
Associate Curator of Painting
and Sculpture
Curator of Prints
Curator of Photographs
Curator of Education
Editor of Publications
Chief, Design and Production
Keeper, Catalog of American
Portraits
Editor of the Charles Willson
Peale Papers and Historian of
American Culture
Librarian
Conservator
Senior Photographer
Registrar
Public Affairs Officer

Alan Fern
Carolyn K. Carr
Marc Pachter

Barbara A. Hart
Robert G. Stewart
Beverly J. Cox
Ellen Miles

Wendy Wick Reaves
William F. Stapp
Harry Jackson
Frances K. Stevenson
Nello Marconi
Linda Thrift

Lillian B. Miller

Cecilia Chin
CindyLou Molnar Ockershausen
Rolland White
Suzanne Jenkins
Sue Ann Kendall

OFFICE OF EXHIBITS CENTRAL

Director	Vacant
Assistant Director, Chief of Design and Editing	Karen H. Fort
Assistant Director, Chief of Production	Walter G. Sorrell

Administrative Section

Administrative Officer	Eva M. Clark
Administrative Assistant	Nina A. Awkard
Supply Technician	George W. Johnson
Secretary	Alicia Q. Hill

Editing and Design Section

Editing Unit

Writer/Editor	Diana F. Cohen
Writer/Editor	Rosemary Regan

Design and Illustration Unit

Senior Designer	Kenneth V. Young
Designer	Mary D. Bird
Designer	Tina M. Lynch
Designer	V. Eve McIntyre
Illustrator	Christopher Reinecke

Production Section

Graphics Shop

Supervisor, Graphics Shop	Patricia M. Burke
Exhibits Specialist	J.B. Bynum
Exhibits Specialist	H. Rolando Mayen
Exhibits Specialist	Ruth Trevarrow
Exhibits Specialist (Typing)	Elizabeth A. Smalls

Model Shop

Supervisor, Model Shop	Benjamin Snouffer
Exhibits Specialist	Michael Friello
Exhibits Specialist	Timothy Smith
Exhibits Specialist	Susan Arshack
Exhibits Specialist	Richard Kilday
Exhibits Specialist	Reed Martin
Exhibits Specialist	Lora Moran-Collins
Exhibits Specialist	James Reuter
Exhibits Specialist	Paul Rhymer
Exhibits Specialist	George Quist
Exhibits Specialist	Carol Reuter

Exhibits Specialist
Exhibits Helper

John Siske
Emanuel Morgan

Fabrication Shop

Supervisor, Fabrication Shop
Exhibits Specialist
Exhibits Specialist
Exhibits Specialist
Exhibits Specialist
Exhibits Specialist
Exhibits Specialist
Exhibits Specialist
Exhibits Maker
Exhibits Maker
Exhibits Helper
Painter Leader
Painter

Kenneth R. Clevinger
Harold S. Campbell
Harry Adams
Michael Headley
Robert Perantoni
William Walton
Teresa West
Jonathan A. Zastrow
James B. Carr
Eric Washington
Michael Kelton
Carl J. Thomas
Anthony R. Valentine

OFFICE OF HORTICULTURE

Director (Acting)
Administrative Officer
Administrative Assistant
Landscape Architect
Greenhouse Manager
Grounds Manager

Kathryn R. Meehan
Peter J. Nerret
Fred Barnette
Paul H. Lindell
Barbara Faust
Kenneth Hawkins

OFFICE OF MUSEUM PROGRAMS

Administration

James Sims	Acting Director
Teresa LaMaster	Deputy Director
Eleanor Coombs	Administrative Officer
Pamela Blalock	Administrative Assistant
Christine Murray	Secretary

Curriculum Programs

Bettie Lee	Curriculum Program Coordinator
Gayle Edmunds	Curriculum Planner
Heather Baker	Program Assistant
Tana Yarano	Program Assistant

Professional Services

Bruce Craig	Professional Services Manager
Esther Washington	Intern Coordinator
Maria Marable	Resident Study Coordinator

Program Research

Nancy Fuller	Program Research Manager
--------------	--------------------------

SMITHSONIAN INSTITUTION OFFICE OF THE REGISTRAR

Director	Mary E. Case
Collections Information Administrator	Jane E. Sledge
Assistant to the Director	William G. Tompkins
Administrative Assistant	A. Paulette Hughes

SMITHSONIAN INSTITUTION TRAVELING EXHIBITION SERVICE

ADMINISTRATION

Director	Anna R. Cohn
Assistant to the Director	Diane Stewart
Administrative Manager	Allegra Wright
Administrative Assistant	Micky Oakley
Receptionist	Carrie Stevenson

ACCOUNTING

Office Manager	Kenneth Fenty
Accounting Manager	Marie-Claire Jean

PROGRAM

Associate Director for Program	Eileen Rose
Project Director	Frederica Adelman
Project Director	Susan Ades
Workshop Director, "Climbing Jacob's Ladder"	Lori Wesley Alperin
Project Director and Registrar	Josette Cole
Project Director	Lori Dempsey
Project Director	Matou Baillergeau Goodwin
Project Director	Anne R. Gossett
Project Director	Elizabeth Hennings
Project Director	Sally Hoffmann
Exhibition Associate	Katherine Clark Hudgens
Project Director	Gail Kaplan
Project Director and Registrar	Linda Karsteter
Project Director	Deborah Macanic
Project Director	Crisley McCarson
Project Director	Donald McClelland
Project Director	Meredith McPherson
Exhibition Associate	Gregory Naranjo
Project Director and Registrar	Viki Possoff
Project Director	Jim Rubenstein
Project Director	Martha Cappelletti Sewell
Project Director	Myriam Springuel
Project Director and Registrar	Catherine Sterling
Project Director	Betty Teller
Project Director	Laurie May Trippett
Project Director and Registrar	Fredric P. Williams
Head Registrar	Lee Williams

PUBLIC RELATIONS

Director	Liz Hill
Public Relations Coordinator	Scott Willett

PUBLICATIONS

Director	Andrea Stevens
Editor	David Andrews
Editor	Melissa Hirsch
Publications Marketing Manager	Jon S. Homes

SCHEDULING AND EXHIBITOR RELATIONS

Scheduling and Exhibitor Relations Director	Kelli Roberts
Scheduling and Exhibitor Associate	Karen Nichols

OFFICE OF THE ASSISTANT SECRETARY FOR PUBLIC SERVICE

James C. Early	Acting Assistant Secretary for Public Service
Ernestine A. Potter	Administrative Officer
Margaret A. Bertin	Special Assistant
Manjula Kumar	Program Specialist
Toni Brady	Administrative Specialist
Jenelle Cooper	Secretary
Candice Robinson	Clerk Typist

OFFICE OF WIDER AUDIENCE DEVELOPMENT

Marshall Wong	Director
Andrea Yangas	Secretary

NATIONAL SCIENCE RESOURCES CENTER

Executive Director	Douglas Lapp
Deputy Director	Sally Shuler
Director of Publications	Kathleen Johnston
Coordinator of Outreach	Olive Covington
Administrative Associate	Karen Fusto
Publications/Technology Specialist	Timothy Falb
Resource Database Specialist	Shawn McCarthy
Graphic Design Specialist	Max-Karl Winkler
Project Assistant	Mari Cherie Bertoni
Project Assistant	Laura Pierce
Project Assistant	Terrye Rodgers
Director, Science and Technology for Children (STC) Project	Joe Griffith
Research Associate, STC Project	Wendy Binder
Research Associate, STC Project	David Hartney
Research Associate, STC Project	Katherine Stiles
Project Consultant, STC Project	Debby Deal
Project Consultant, STC Project	Pat McGlashan

OFFICE OF ELEMENTARY AND SECONDARY EDUCATION

Director
Deputy Director
Director of Outreach Programs
Publications Coordinator
Coordinator of Teacher Services
Writer/Editor
Education Specialist
Education Specialist
Education Specialist

Ann Bay
Thomas E. Lowderbaugh
Janice Majewski
Michelle Smith
Clare Cuddy
Betsy Eisendrath
Maria Cristina Garcia
Beth Anne Shaw
Julia Langdon

OFFICE OF FOLKLIFE PROGRAMS

Acting Director
Director, Smithsonian/Folkways
Recordings
Senior Folklorist
Senior Ethnomusicologist
Festival Director
Director, Quincentenary Projects
Administrative Officer
Acting Administrative Officer
Program Analyst
Education Specialist
Curator, Senegal Program
Curator, Musics of Struggle
Program
Research Associates

Richard Kurin
Anthony Seeger
Peter Seitel
Thomas Vennum, Jr.
Diana Parker
Olivia Cadaval
Jewell Dulaney
Barbara Strickland
Richard Kennedy
Betty Belanus
Diana N'Diaye

Jacquelin Peters
Marjorie Hunt
Frank Proschan
Nicholas Spitzer

Acting Festival Services
Manager
Designer
Technical Coordinator
Program Specialist
Archives Technician
Audio Visual Production
Assistant
Folkways Specialist
Folkways Assistants

Claudia Telliho
Daphne Shuttleworth
R. Fred Nahwooksy, Jr.
Arlene Reiniger
C. Jeffrey Place

Assistant Archivist
Quincentenary Coordinator
Secretary to the Director
Clerk/Typists

Guha Shankar
Dudley Connell
Suzanne Holder
Christopher Jerde
Lori Taylor
Celia Heil
Maria Parisi
Lidya Montes
Minu Tahmassebi

OFFICE OF PUBLIC AFFAIRS

Director
Associate Director
Administrative Officer
Secretary to the Director

Madeleine Jacobs
Eileen Jones
Carolyn Amundson
Michelle Carr
Natalie Fielman

Publications

Associate Director
Staff

Kathryn Lindeman
John Barrat
Mary Combs
Holly Hammett
Peggy Langrall
Antoinette van Zelm
Jo Ann Webb
Lilas Wiltshire

News

Associate Director
Staff

Linda St. Thomas
Johnnie Douthis
Gabriela Frings
Irene Jones
David Maxfield
Vicki Moeser
William Schulz
Rachel Sears
Robert Tenequer (intern)

VISITOR INFORMATION AND ASSOCIATES' RECEPTION CENTER

Director

Mary Grace Potter

Deputy Director

Elizabeth Bennett

Unit Manager, Information Resources Division

Jane Gardner

Unit Manager, Public Inquiry Mail and Telephone Information Services Unit

Katherine Neill

Unit Manager, 7-Day Information Service Unit

Sherrie Chapman

Program Coordinator, Behind-the-Scenes Volunteer Program

Nancy Hinton

Program Coordinator, Telephone Information Service

Cordelia Benedict

Program Coordinator, Central Services

Sheila Myers

OFFICE OF ASSISTANT SECRETARY FOR EXTERNAL AFFAIRS

Assistant Secretary	Thomas E. Lovejoy
Deputy Assistant Secretary	Marc J. Pachter
Deputy Assistant Secretary for Media	Robert A. Dierker
Executive Assistant	Carmen R. Thorndike
Research Assistant	Martha Hays Cooper
Program Assistant	Katy Moran
Special Assistant	Kennedy Schmertz
Staff Assistant	Debbie Yang
Office Assistant	Lydia Wallick
Secretary	Elizabeth Sarantos

NATIONAL DEMONSTRATION LABORATORY FOR INTERACTIVE
EDUCATIONAL TECHNOLOGIES

Director	Jacqueline Hess
Deputy Director	Ellen Withrow

OFFICE OF MEMBERSHIP AND DEVELOPMENT

Director	Thomas McCance, Jr.
Deputy Director	E. Jeffrey Stann
Director of Development Activities	Diana D. Duncan
Special Assistant to the Director	Gwendolen R. Leighty
Administrative Officer	Carol S. Nottingham
Executive Secretary	Judith S. Boerger
Development Assistant	Kimberly Holyfield
Manager, Individual Giving Center	Donna B. Ari
Development Officers	Barbara White Freeman
	Anne Walton
Development Associates	Elizabeth Pilson
	Melanie Wolfe
Development Assistant	Nancy Patsos
Manager, Corporate/Foundation Center	Nancy Fischer
Development Officer	Elba Arrocha
Development Associate	Raymond Burkett
Development Assistant	Kimberly Lakin
Manager, Development Services Center	Margaret D. Turner
Development Officers	Lucy Dorick
	Bonnie K. Miller
	Michael B. Syphax
Development Associates	Frank Edwards
	Julia Heiner
	Robert Leipold
	Stefanie Musegades
	Lyssette Rivera

Development Assistant

Booker Wilson

Manager, Information Center
Development Assistant
Development Constituencies Officer
Information Resource Specialist
Constituency Info. Project Officer
Database Coordinator
Technical Information Clerks

Margo H. Knight
Emily Levine
Susan Kalcik
Jim Stone
Christine Louton
Ann Bissell
David Herod
Denise McKittrick
Chong-Ok Hong Tseng

Gift Records Specialist

Special Services Officer
Development Assistant/Receptionist

Arthur W. Gardner
D. Michael Serrano

Foreign Representatives:

Europe
Japan

Sir Valentine Abdy
Hanako Matano

WOMEN'S COMMITTEE OF THE SMITHSONIAN ASSOCIATES

Program Coordinator
Program Assistant

Paula Duncan
Susan Conway

SMITHSONIAN NATIONAL ASSOCIATE PROGRAM

Director
Assistant Director
Program Manager,
U.S. and International Events
and Smithsonian Research Expeditions
Program Manager,
Contributing Membership
Program Manager,
Corporate Associate Program
Program Manager,
Smithsonian Study Tours and
Seminars

Joseph Carper
Stephen Pike
Charlene James-Duguid

Fern Segerlind

Neill Heath

Barbara Tuceling

SMITHSONIAN RESIDENT ASSOCIATE PROGRAM

Director	Janet W. Solinger
Associate Director, Administration	Michael Cassidy
Associate Director, Programming	Edmund H. Worthy, Jr.
Program Managers	Roslyn C. Beitler
	Anna Caraveli
	Joanne Gigliotti
	Jacqueline H. Grazette
	Moya B. King
	Marcus L. Overton
	Michael A. Caplin
	Susan Lee Swarthout
Program Coordinators	Penelope Pigott Dann
	Margo Del Vecchio
	Karen M. Gray
	Harriet McNamee
	Valerie Wheat
Editor	Cecelia Reed
Assistant Editor	Reed Isbell
Public Affairs Officer	Joan Cole
Director of Marketing	Janice R. Nall
Membership and Registration Manager	Dennis R. Smoot
Assistant Membership and Registration Manager	Claudette E. Moore
Assistant Registration Manager	Xenia Sorokin Arnelle
Business Office Manager	Crystal Pruitt Fleary
Volunteer Coordinator	Susan R. Mond

OFFICE OF CONGRESSIONAL LIAISON

Director	Margaret C. Gaynor
Congressional Liaison Officer	Claire L. Fronville
Congressional Liaison Specialist	Carey M. Wilkins
Congressional Liaison Specialist	Manuel J. Melendez
Congressional Liaison Assistant	Mariko C. Murray

OFFICE OF SPECIAL EVENTS

Director	Barbara Spraggins
Special Events Coordinators	Edmund B. Anderson
	Cheryl E. Gibney
	Blenda G. Thompson
	Mary E. Thomson
Secretary	Mary E. Davis

OFFICE OF TELECOMMUNICATIONS

Director
Deputy Director
Media Project Development Specialist
Motion Picture Production Specialist
Audio/Visual Production Specialists

Paul Johnson
Karen Loveland
Elizabeth Brownstein
John W. Hiller
John P. Meehan
Lee Cioffi
Laura Schneider
Peter R. C. Erikson
Jean Quinnette
Denise Freeland
Martha Knouss
-- Vacant --
John Tyler
Charlotte Brown
Myra Banks

Marketing & Promotion Specialist
Marketing Assistant
Radio Production Specialist
Radio Production Specialist
Administrative Officer
Administrative Assistant

SMITHSONIAN INSTITUTION PRESS

Director
Deputy Director
Financial Manager
Marketing Director
Administrative Officer

Felix Lowe
Vincent MacDonnell
John Ouellette
Gail Grella
Dorothy Blaska

University Press Division

Editorial Director
Managing Editor
Managing Editor, Series Publications
Production Manager
Design Manager

Daniel Goodwin
Ruth Spiegel
Barbara Spann
Kathleen Brown
Alan Carter

Smithsonian Books Division

Editor-in-Chief
Senior Editor

Patricia Gallagher
Alexis Doster III

Recordings Division

Executive Producer

Vacant

Book Development Division

Executive Editor

Caroline Newman

SMITHSONIAN MAGAZINE

Editor

Don Moser

Board of Editors:

Constance A. Bond
Caroline A. Despard
Jim Doherty
Timothy Foote
Marlane A. Liddell

Bennett Schiff
Nancy Seaman
Paul Trachtman
John P. Wiley, Jr.

Publisher

Joseph J. Bonsignore

Associate Publisher, Advertising
Associate Publisher, Circulation
Associate Publisher, Administration
Circulation Director
Director of Production
Consultant to the Magazine

Thomas H. Black
John O'Donnell
Carey O. Randall
Adeline Sherr
E. Cherry Doyle
Edward K. Thompson

AIR & SPACE/SMITHSONIAN MAGAZINE

Editor

George C. Larson

Managing Editor

Tom Huntington

Picture Editor

Lee Battaglia

Senior Editor

Linda Musser Shriner

Departments Editor

Patricia Trenner

Publisher

Joseph J. Bonsignore

Advertising Director

Louis C. Kolenda

Circulation Director

Gale Page

Associate Publisher, Administration

Carey O. Randall

Business Manager

Shelia Perry-Brannum

Production Manager

Sarah D. Kingsley

Consultant to the Magazine

E. Cherry Doyle

SMITHSONIAN WORLD

Executive Producer

Sandra Bradley

Series Coordinator

Kalindi Corens

Production Associate

Brent Rains

OFFICE OF THE ASSISTANT SECRETARY FOR INSTITUTIONAL INITIATIVES

Assistant Secretary for

Institutional Initiatives

Alice Green Burnette

Special Assistant

Daniel K. Stevenson

Program Manager

Lois A. Noack

OFFICE OF THE ASSISTANT SECRETARY FOR ADMINISTRATION

Assistant Secretary	John F. Jameson
Deputy Assistant Secretary	Elizabeth Beuck Derbyshire
Special Assistant	Howard Toy
Ombudsman	Chandra P. Heilman

OFFICE OF EQUAL OPPORTUNITY

Director	Will Douglas, Jr.
Special Assistant	McKinley Harris
Computer Programmer	Claudine Massih
Program Manager	Carol Gover
Program Manager, Complaints	Robert L. Osborne
Program Manager, Affirmative Action	Diane Cook-Lee

OFFICE OF FACILITIES SERVICES

Director	Richard L. Siegle
----------	-------------------

OFFICE OF ARCHITECTURAL HISTORY AND HISTORIC PRESERVATION

Director	Cynthia R. Field
Historic Preservation Specialist	Amy Ballard
Registrar, Smithsonian Furnishings Collection	Richard E. Stamm
Conservator, Smithsonian Furnishings Collection	Peter L. Muldoon

OFFICE OF DESIGN AND CONSTRUCTION

Director	Robert P. Dillman (appointed September 1990)
Acting Associate Director	William L. Thomas
Chief, Information and Administrative Services Div.	Vacant
Chief, Facilities Planning Div.	Harold J. Rombach
Chief, Project Management Div.	Vacant
Acting Chief, Program Support Branch	Laura O. Hoing
Chief, Resource Management Branch	Vacant
Program Manager, ASC, L'Enfant	Vacant
Program Manager, SAO	Vacant
Program Manager, South Group	Pedro J. Rivera
Project Manager, AAPG, RGA, AM, HMSG	Paul Rasmussen
Project Manager, NMAH, Springfield	Aris T. Allen
Project Manager, NMNH, MSC, Fort Pierce	Donald Dormstetter
Project Manager, STRI	Fernando Pascal
Project Manager, NASM, SHF	Thomas P. Myers
Project Manager, Freer	Loren D. Raap
Project Manager, NMAI	Vacant

OFFICE OF ENVIRONMENTAL MANAGEMENT AND SAFETY

Director	F. William Billingsley
Executive Officer	Andrew W. McCoy
Chief, Environmental Management Division	Ruth E. McCully
Chief, Fire Protection Division	J. Andrew Wilson
Chief, Safety Division	Walter G. Bailey

OFFICE OF PLANT SERVICES

Director	Michael R. League
Deputy Director	Michael J. Sofield
Administrative Officer	Judith A. Cooper
Assistant Director, Physical Plant Services	William M. Adams
Chief, Utilities Operations	Harry I. Goodman
Chief, Crafts Operations	John W. Libby
Assistant Director, Engineering and Support Services	Lawrence D. Stuebing
Chief, Engineering Services	Howard Wink, Jr.
Chief, Support Services	Charles W. Arthur, Jr.

OFFICE OF PROTECTION SERVICES

Director	Robert B. Burke
Associate Director Management	G. Clifford Boocks
Associate Director Operations	Thomas H. Bresson
Administrative Officer	Vacant
Chief, Protection Service	Ronald J. Colaprete
Chief, Security Systems Division	Warren J. Danzenbaker
Chief, Security Services Division	Ralph M. Smith (Acting)
Medical Officer	J. Andrew Armer, M.D.
Security Officer, Cooper-Hewitt and National Museum of the American Indian	Luis A. Palau

OFFICE OF INFORMATION RESOURCE MANAGEMENT

Director	Vincent J. Marcalus
Acting Manager, Management Information Systems Division	Frank Bennett
Manager, Collections Information Systems Division	Susan McFarland
Manager, Computer Systems Management Div.	George Anderson
Manager, Communication Management Div.	John Moreci
Manager, Information Management Division	Rae L. Thompson
Manager, Information Support Services Division	Joseph Russo

MANAGEMENT ANALYSIS OFFICE

Director	John G. Motheral
Assistant Director	James M. Young
Chief, Operations	Iris Thomas

OFFICE OF PERSONNEL ADMINISTRATION

Acting Director	Barry M. Pierce
Administrative Officer	Sandra J. Anderson
Acting Assistant Director for Operations	Toni C. Lake
Acting Assistant Director for Policy and Programs	Nancy L. Johns
Benefits Officer	Anthony Kohlrus
Labor Relations Officer	Nancy L. Johns

OFFICE OF PLANNING AND BUDGET

Director	Nancy D. Suttentfield
Assistant Director, Planning	Robert L. Farrell
Assistant Director, Federal Compliance and Reporting	Mary J. Rodriguez
Assistant Director, Budget Formulation and Execution	Richard S. Haas

OFFICE OF PRINTING AND PHOTOGRAPHIC SERVICES

Director	James H. Wallace, Jr.
Deputy Director	Lorie H. Aceto
Production Control Officer	Mary Ellen McCaffrey
Chief, Special Events/Photography Branch	Richard Hofmeister
Chief, Laboratory Branch	Edes F. Talman
Chief, Services Branch	Joyce M. Goulait
Chief, NASM Branch	Mark Avino
Chief, NMNH Branch	Victor Krantz
Chief, Color Branch	Joe A. Goulait
Chief, Duplicating Branch	Herman Thompson

OFFICE OF PROCUREMENT AND PROPERTY MANAGEMENT

Director	Robert P. Perkins
Deputy Director	John W. Cobert
Manager, Contracts and Procurement Divisions	Vacant
Chief, Contracts Division	George J. Zumpf
Chief, Procurement Division	Helen L. Donaldson
Manager, Programs and Property Divisions	Robert J. Lewin
Chief, Property and Inventory Management Division	Joseph W. Swihart
Management Analyst	Willa H. Afshar

TRAVEL SERVICES OFFICE

Director	Judith Petroski
Deputy Director	Carol P. Ailes

JOHN F. KENNEDY CENTER FOR THE PERFORMING ARTS

Chairman

James W. Wolfensohn

CULTURAL DIVERSITY AFFAIRS

Director

Archie L. Buffkins

DEVELOPMENT

Director/

Marc Breslaw

Kennedy Center Corporate Fund
National Symphony Orchestra

Director/

Barbara A. Hall

Annual Fund, Endowment

EDUCATION

(Acting) Director/

David R. Humphrey

Alliance for Arts Education

Associate Director

R. Virginia Rogers

Associate Director

Scott D. Stoner

Theater for Young People

Carole C. Sullivan

National Symphony Orchestra

Carole J. Wysocki

American College

Theater Festival

David Young

FINANCE

Director

Clifton B. Jeter

Personnel Manager

Sandra E. Bissell

Payroll Manager

Lee Caldwell

Controller

Nancy H. Fleeter

Data Systems Manager

Steven D. Hacker

Budget Director

Kathleen L. Plovanich

FRIENDS OF THE KENNEDY CENTER

Director

Peg Allen

OPERATIONS

Director

Geraldine M. Otremba

Director of Procurement

Thomas A. Hickok

Director of Planning

and Building Services

Beth W. Newbold

PRODUCTIONS AND THEATERS

General Manager of Theaters	Drew Murphy
Administrator for Artistic Programming	Sheldon Schwartz
Theater Operations Manager	Randy Weeks

PUBLIC AFFAIRS, MARKETING AND ADVERTISING

Division Director/ Director of Public Affairs	Laura Longley
Director of Media Relations	Tiki Davies
Director of Marketing	John H. McAuliffe
Director of Advertising	Joanne B. Steller

SPECIAL EVENTS

Director	Charlotte Woolard
----------	-------------------

TELEVISION AND SPECIAL PROJECTS

Director	Carolyn Reynolds
----------	------------------

NATIONAL SYMPHONY ORCHESTRA

Executive Director	Stephen Klein
General Manager	Richard B. Hancock

NATIONAL GALLERY OF ART

Office of the President

President John R. Stevenson

Office of the Director

Director. J. Carter Brown

Special Assistant Robert Bowen

Executive Assistant Angela LoRe

Office of the Deputy Director

Deputy Director Roger Mandle

Head, Department of Education. Linda Downs

Editor. Frances Smyth

Chief of Exhibition Programs. D. Dodge Thompson

Executive Librarian Neal T. Turtell

Chief, Photographic Laboratory. Richard Amt

Head, Photographic Services Ira A. Bartfield

Head, Department of Educational
Resources Ruth R. Perlin

Curator of Photographic
Archives. Ruth Rowe Philbrick

Chief, Department of Design
and Installation. Gaillard F. Ravenel

Managing Curator, Records
and Loans Suzannah Fabing

Registrar Mary E. Suzor

Head, Department of Loans and
National Lending Service. Stephanie Belt

Assistant to the Deputy
Director. Carol Kelley

Curators

Senior Curator, Curator of
Prints and Drawings Andrew C. Robison, Jr.

Curator of French Prints. H. Diane Russell

Curator of Italian Drawings Margaret Morgan
Grasselli

Curator of Contemporary Prints. Ruth Fine

Curator of Northern Renaissance
Painting. John O. Hand

Curator of Southern Renaissance
Painting. David A. Brown

Curator of Northern Baroque
Painting. Arthur K. Wheelock

Curator of Southern Baroque
Painting. Diane DeGrazia

Curator of American Art Nicolai Cikovsky

Curator of Sculpture. Douglas Lewis

Curator of Modern Painting. . . Charles S. Moffett
Curator of Twentieth-Century
Art Jack Cowart
Chief of Conservation Ross M. Merrill

Office of External Affairs

External Affairs Officer. Joseph J. Krakora
Special Events. Genevra Higginson
Public Information. Ruth Kaplan
Corporate Relations Elizabeth A. C. Weil
President's Office, Special
Project, Patrons' Permanent
Fund. Laura E. Fisher
Music George Manos

Office of the Secretary-General Counsel

Secretary-General Counsel . . . Philip C. Jessup, Jr.
Associate Secretary-General
Counsel Elizabeth A. Croog
Assistant Secretary Kathryn K. Bartfield
Chief Archivist, Gallery
Archives. Maygene Daniels

Center for Advanced Study in the Visual Arts

Dean. Henry A. Millon
Associate Dean. Marianna S. Simpson

Office of the Treasurer

Treasurer Daniel Herrick
Assistant Treasurer Michael W. Levine

Office of the Administrator

Administrator Anne B. Evans
Personnel Officer Michael B. Bloom
Facility Manager. Gregg A. Reynolds

READING IS FUNDAMENTAL, INC.

Chairman of the Board
President
Director of Special Projects
Director of Development
Director of Supplier and
Organizational Relations
Director of Finance
Director of Programs
Director, Systems, Computer,
and Support Operations
Finance Officer
Senior Writer/Editor
Manager of Educational Services
Program Coordinator
Program Coordinator
Program Coordinator

Mrs. Elliot Richardson
Ruth Graves
Nancy Sullivan
Wade St. Clair

Barbara B. Atkinson
Christina Mead
James Wendorf

Don Perron
Oriente Arzadon
Gail Oerke
Victoria J. Heland
Krystal Patrick
Mary Haggerty
Alison Riley

WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS

Director	Charles Blitzer
Deputy Director	Samuel F. Wells, Jr.
Deputy Director for Planning and Management	Dean Anderson*

Dominic Cooper, Special Assistant
to the Director
Zdenek V. David, Librarian
Moirra Egan, Director of
External Affairs
Glenn W. LaFantasie, Director of
Publications
George L. Seay, Producer of
Radio Dialogue
Ann C. Sheffield, Assistant
Director for Fellowships

William P. Glade, Senior Scholar
Walter Reich, Senior Scholar

DIVISION OF INTERNATIONAL STUDIES
Robert S. Litwak, Director

DIVISION OF REGIONAL AND
COMPARATIVE STUDIES
Joseph Tulchin, Chairman
Asia Program, Mary Bullock,
Director
Kennan Institute for Advanced
Russian Studies,
Blair Ruble, Director
Latin American Program, Joseph
Tulchin, Director
East and West European Program,
East European Studies,
Milan Hauner, Director
West European Studies,
Michael Haltzel, Director

DIVISION OF UNITED STATES STUDIES
Michael J. Lacey, Director

MEDIA STUDIES PROJECT
Lawrence Lichty, Director

THE WILSON QUARTERLY
Warren B. Syer, Publisher
Kathy Read, Deputy Publisher
Jay Tolson, Editor
Steven Lagerfeld, Deputy Editor

*appointed September 10, 1990

Appendix 7

Donors to the Smithsonian Institution in Fiscal Year 1990

The Board of Regents and the Secretary of the Smithsonian join with the entire staff in thanking all of the Institution's friends for the generosity they have shown with their financial support, gifts to the collections, and in-kind donations. All gifts are listed according to type; within each category names of donors are recorded under the title of the recipient bureau or office, with a brief description of the gift where appropriate. If perchance the name of any donor has been omitted from these lists, it is an inadvertence and in no way diminishes the Institution's gratitude. Many gifts were received from donors who prefer to remain anonymous; the Smithsonian wishes to thank these people, as well, for their support.

DONORS OF FINANCIAL SUPPORT

INTERNATIONAL CENTER

\$10,000 or more

Alton Jones Foundation

BIOLAT

Ford Foundation, with Island Press

Pew Charitable Trusts

Rockefeller Foundation

Smithsonian Education Outreach

Fund

Stroud Foundation

UNESCO Man & the Biosphere Program

U.S. Man & the Biosphere Program

\$1,000 or more

Anonymous Donor

World Wildlife Fund

JOSEPH HENRY PAPERS

\$1,000 or more

Ida Hornstein Reingold Memorial Fund

NATIONAL ZOOLOGICAL PARK

\$100,000 or more

The Pew Charitable Trusts

\$50,000 - \$99,999

Jean D. & W. Mason Shehan
World Wildlife Fund-US

\$10,000 - \$49,999

Anonymous

The Arcana Foundation
The Clark-Winchcole Foundation
Brittain Bardes Cudlip
The Geraldine R. Dodge Foundation
The Max & Victoria Dreyfus Foundation
Florida Game & Fresh Water Fish Commission
The Philip L. Graham Fund
Ruth S. Holmberg
The Mars Foundation
Rallston Purina Company
Merrilyn Bardes Reynolds

\$5,000 - \$9,999

Don H. Berkebile
The Bristol Myers-Squibb Foundation
Howard Stein
Dr. Judith P. Sulzberger
Nature Conservancy of Hawaii
Safari Club International, D.C. Chapter
Stephen V. Winthrop

\$1,000 - \$4,999

Cathleen & Robert A. Bartlett, Jr.
Binder Park Zoological Society
Esther S. Bondareff
Cleveland Zoological Society
Columbus Zoological Park
James Everett
Gilman Paper Company
Dr. & Mrs. Clinton W. Kelly, III
John C. & Withrow Wier Meeker
Evelyn R. & Richard J. Norman
Oklahoma City Zoological Park
Jane D. & Bernard H. Ridder, Jr.
Sonia S. & Louis Rothschild, Jr.
St. Louis Zoological Park
John L. & Gloria P. Scott
Barbara & Jeffrey R. Short, Jr.
Dr. Joseph R. Spies
Mary H. Storer
Toledo Zoological Society

OFFICE OF INTERDISCIPLINARY STUDIES

\$25,000 or more
International Life Sciences Institute-
Nutrition Foundation

\$2,500 or more
Brown Group, Inc.
Kolla-Landwehr Foundation

\$10,000 or more
McGovern Fund for the Behavioral
Sciences

SMITHSONIAN INSTITUTION LIBRARIES

\$5,000.00 or more
Research Publications, Inc.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

\$500,000 or more
Glenn O. Tupper

\$100,000 or more
Andrew W. Mellon Foundation

\$10,000 or more
Exxon Coporation

\$500 or more
Mildred and Harry Silberglied

ARCHIVES OF AMERICAN ART

\$50,000 or more

deSalle Charitable Trust
J. Paul Getty Trust
The Henry Luce Foundation, Inc.
The Pew Charitable Trust

\$10,000 or more

Mr. and Mrs. Max N. Berry
Berry-Hill Galleries, Inc.
Bess Harper Estate
Mr. and Mrs. Meredith J. Long
Mr. and Mrs. Richard Manney
Mr. and Mrs. Richard A. Manoogian
Salomon Brothers Inc
Mr. and Mrs. Robert F. Shapiro
Mr. and Mrs. A. Alfred Taubman
The Ahmanson Foundation
The Brown Foundation, Inc.
The Horace W. Goldsmith Foundation
The John Randolph Haynes and
Dora Haynes Foundation
Time Warner Inc.

\$5,000 or more

Mr. and Mrs. Alexander Acevedo
Mr. and Mrs. Charles L. Biggs
Mr. David Bolt
Mr. and Mrs. Eli Broad
Christie's Associates
Mr. and Mrs. Saul Z. Cohen
Mrs. Walter B. Ford
Mr. and Mrs. Eugenio Garza Laguera
Mr. and Mrs. Hugh Halff, Jr.
Mr. and Mrs. Edward C. Johnson III
Mr. and Mrs. Gilbert H. Kinney
Mr. and Mrs. Alan D. Levy
Miss Julienne M. Michel
Mr. Mayer Mitchell
Nina Werblow Charitable Trust
Mr. and Mrs. Meyer P. Potamkin
Mr. and Mrs. Richard Roob
Mr. and Mrs. John N. Rosekrans, Jr.

Mr. and Mrs. Alan E. Schwartz
Mr. and Mrs. Richard J. Schwartz
Sotheby's
Mr. Ira Spanierman
Mr. Arthur O. Sulzberger
The John Sloan Memorial
Foundation, Inc.
The Leslie Fay Companies, Inc.
Viola E. Bray Charitable Trust

\$1,000 or more

Mr. and Mrs. Ansel Aberly
Mr. and Mrs. John Alexander
Mr. Arthur G. Altschul
Babcock Galleries
Ms. Sandra H. Bakalar
Mr. Louis C. Baker
W. N. Banks
Dr. and Mrs. James Bannon
Mr. and Mrs. Edward L. Benson
Mrs. Edwin A. Bergman
Mr. and Mrs. Philip I. Berman
Mrs. Peter S. Bing
Mr. Gary Breitweiser
Mr. and Mrs. Gerald Buck
Mr. and Mrs. Preston Butcher
Mr. Charles C. Butt
Mr. and Mrs. Howard B. Camden
Mr. Orton O. Camp, Jr.
Caskey & Lees
Citibank Private Banking
Claneil Foundation, Inc.
Mrs. Edith B. Cook
Mrs. Robert Coryell
Mr. and Mrs. Raymond M. Cracchiolo
Mr. and Mrs. Earl M. Craig, Jr.
Mrs. Susan L. Cullman
Mr. Bruce A. Davis
Dr. and Mrs. Francis de Marneffe
Mr. and Mrs. Richard P. Doerer
Dorothy Jordan Chadwick Fund

Mr. and Mrs. Lawrence DuMouchelle
Mrs. Dorothy Dunitz
Ms. Virginia Dwan
Mr. and Mrs. Allan B. Ecker
Mr. and Mrs. Irv Ellman
Mr. and Mrs. Samuel A. Esses
Mr. and Mrs. Alex J. Etkin
Mr. and Mrs. Arthur A. Feder
Mr. Stuart P. Feld
Mr. and Mrs. Charles T. Fisher III
Mr. and Mrs. Max M. Fisher
Mrs. Daniel Fraad
Mr. and Mrs. Julian Ganz, Jr.
Mr. John H. Garzoli
Mr. and Mrs. Frank A. Germack, Jr.
Mrs. Bernice Gershenson
Mr. and Mrs. Gordon P. Getty
Mr. Arnold B. Glimcher
Mr. and Mrs. Harold Gordon
Mr. and Mrs. David S. Gottesman
Mr. and Mrs. Robert C. Graham, Jr.
Mr. and Mrs. Peter E. Haas
Harvey S. Firestone, Jr. Foundation
Mr. Bernard Hirsch and Mrs. Lillian
Shaye-Hirsch
Dr. and Mrs. David Jacknow
Mrs. Morris I. Jaffe
Mr. and Mrs. Richard J. Janes
Mr. and Mrs. Leonard C. Jaques
Mr. Richard Jenrette
Mr. and Mrs. David Jensen
Mr. Phillip C. and Dr. Helen
Jessup, Jr.
Mr. Walter Keating
F. E. Keeler
Mr. and Mrs. Dwight M. Kendall
Dr. and Mrs. Charles Kessler
Mrs. James D. Klingbeil
Mr. and Mrs. Frederick A.
Klingenstein
Mr. and Mrs. Nat Korash
Mr. and Mrs. Richard Kughn
Mrs. Barrie Landry
Dr. Catherine Lastavica
Mr. and Mrs. David Leader
Mrs. Herbert C. Lee

Mrs. Harry Lenart
Mr. Melvin and Mrs. Thelma Z.
Lenkin
Dr. and Mrs. Irving H. Leopold
Mr. and Mrs. Robert Lifton
Mr. and Mrs. Peter L. Malkin
Mr. and Mrs. Alex Manoogian
Maxwell Galleries Ltd.
Mr. and Mrs. Robert E. Meyerhoff
Mrs. John E. Miller
Montgomery Gallery
Mr. Jack Nash
Mrs. Gloria R. Oppenheimer
Mr. Gerald P. Peters
Dr. and Mrs. Terry Podolsky
Mr. and Mrs. John Robinson
Rodier Coporation
Mr. and Mrs. Wilbur L. Ross, Jr.
Mrs. Harry Rubin
Mr. and Mrs. Peter Russell
Saks Fifth Avenue
Samuel P. Mandell Foundation
Mrs. Sunne Savage-Neuman
Mr. and Mrs. Abbott K. Schlain
Mr. and Mrs. Douglas A. Schubot
Dr. and Mrs. Arthur A. Schultz
Mr. and Mrs. Ivan P. Shadko
Mr. and Mrs. Frederic A. Scharf
Dr. and Mrs. Robert R. Silver
Ms. Louise Manoogian Simone
Mrs. Nathan Smooke
Mrs. Otto L. Spaeth
Mr. and Mrs. Maury L. Spanier
Mr. Alan D. Stone
Mr. and Mrs. George Strumbos
Ms. Louise M. Sunshine
Mr. Stephen C. Swid
Mr. Hollis C. Taggart
Mr. and Mrs. William S. Taubman
Ted Mills Fine Art
The Barra Foundation, Inc.
The Eclectic Framer
The New England
Mr. Hans Heinrich
Thyssen-Bornemisza
Mrs. Raymond Troubh

Mr. and Mrs. Keith S. Wellin
Mrs. Shelby White

\$500 or more

Mr. and Mrs. Edmund T. Ahee
The Honorable and Mrs. Joseph L.
Alioto
Dr. Lourdes V. Andaya
Mr. and Mrs. Derby F. Anderson
Mrs. E. Ross Anderson
Ms. Kim C. Anderson
Dr. Stephen Andrus
Mr. and Mrs. Eugene Applebaum
Arlington Gallery
Atelier Dore, Inc.
Dr. and Mrs. Donald C. Austin
Mrs. Donna Barnett
Mr. and Mrs. Bogdan Baynert
Mr. Gifford R. Beal
Ms. Pamela Bensoussan
Mr. and Mrs. Donald Benyas
Mrs. F. Henry Berlin
Dr. and Mrs. John G. Bielawski
Mr. and Mrs. John L. Bradley
Mr. William Breslan
Mr. and Mrs. Frederick Brown
Ms. Barbara Brubaker
Dr. and Mrs. Irving F. Burton
Mr. and Mrs. Lester S. Burton
Dr. and Mrs. John M. Carroll
Ms. Elizabeth M. Chapin
Ms. Ann W. Chapman
Mr. Joseph H. Chowning
Cincinnati Art Galleries
Mrs. Chisholm Cole
Mrs. Ellen R. Cooper
Ms. Paula Cooper
Mrs. Lamot DuPont Copeland
Ms. Kathryn Corbin and Mr. Jeffrey
Brown
Mrs. Sylvia Fairn Cornish
Mr. and Mrs. Richard M. Danziger
Mrs. Polly Blakeley Davidson
Mr. Mark G. Davis
Mrs. Elizabeth De Cuevas
Mrs. Maria Mercedes de Medina

Mrs. John de Menil
Michael and Dudley Del Balso
Dr. Charles C. Dickinson III
Mr. Dale F. Dorn
Mr. and Mrs. James E. Douglas
Mr. William J. Doyle
Mr. Charles H. Duggan
Dunkin' Donuts Incorporated
Mr. and Mrs. Barney A. Ebsworth
Mr. and Mrs. Gilbert S. Edelson
Ms. Lois Ehrenfeld
Mr. Joseph M. Erdelac
Mr. Christian P. Erdman
Erickson & Elins Fine Art, Inc.
Mrs. John V. Erickson
Ms. Geraldine Fabrikant
Ms. Natalie Fielding
Mrs. George R. Fink
Mr. George Hopper Fitch
Mr. and Mrs. Arthur Fleischer, Jr.
Mr. and Mrs. Lawrence A. Fleischman
Mr. Christopher Forbes
Mr. and Mrs. Frederick D. Forsch
Mrs. Helena Fraser
Mr. George Frederick and
Ms. Lucille Jewett
Mr. and Mrs. Sheldon Fuller
Mrs. Frederick Gardner
Mr. and Mrs. Yale Ginsburg
Mrs. William D. Glasgow
Dr. and Mrs. Frank C. Glover
Mr. Howard J. Goedel
Mr. and Mrs. Henry Goldberg
Mr. and Mrs. Richard Goldman
Mr. and Mrs. Richard W. Goss II
Mr. and Mrs. Thomas B. Green
Mrs. Robert S. Greenbaum
Mrs. Anne G. B. Grew
Mr. Graham Gund
Dr. Susan Harold and Mr. Harold
Schreiber
Jim Herrington and Carol Camiener
Mr. and Mrs. Mark Hoffman
Mr. Kempf Hogan
Mrs. Peter M. Holbrook
Ms. Catherine W. Holmes

Mr. and Mrs. Raymond J. Horowitz
 Mrs. William White Howells
 Mr. and Mrs. Richard E. Hyde
 IBM Corporation
 Jack Parker Antiques
 Mr. and Mrs. Herbert H. Jacob
 Jerry Alper, Inc.
 Mr. and Mrs. Joseph P. Kaiser IV
 Mr. Maurice H. Katz
 Mrs. Sallie B. Kelly
 Ms. Joan Peterson Klimann
 Mr. and Mrs. John Klingenstein
 Mr. and Mrs. Fred Kohlenberg
 Mrs. Estelle M. Konheim
 Mr. and Mrs. James L. Krasne
 Ronald and Mary Lamparter
 Mrs. Barbara Lee
 Ms. Sandy Lepore
 Mrs. Arabella Levorsen
 Ms. Lynda A. Levy
 Dr. and Mrs. Kim K. Lie
 Mr. and Mrs. George M. Luhn
 Mr. and Mrs. Peter S. Lynch
 Mrs. Sam Maddux, Jr.
 Mr. and Mrs. Charles Manoogian
 Dr. and Mrs. William Margaretten
 Mrs. Barbara M. Marshall
 Mrs. Edgar M. Masinter
 Ms. Barbara Mathes
 Dr. John J. McDonough
 Mr. Jay D. McEvoy
 Mrs. Nan Tucker McEvoy
 Mr. Robert A. McNeil
 Mr. and Mrs. Vaughan B. Meyer
 Mrs. Peter Michael
 Dr. Martyna Miskinis
 Mr. and Mrs. Stuart G. Moldaw
 Mrs. Edward P. Moore
 Mr. and Mrs. E. Clarence Mularoni
 Nedra Matteucci Fine Art
 Mrs. Harris K. Oppenheimer
 Mr. and Mrs. Samuel Oroshnik
 Mr. William B. Osgood
 Mr. Alfonso A. Ossorio
 Mr. Glenn C. Peck
 Peregrine Galleries
 Mr. and Mrs. Hughes L. Potiker
 Mr. Harvey W. Rambach
 Mrs. Dorothy H. Rautbord
 Mr. and Mrs. Dana M. Raymond
 Redfern Gallery
 Mr. Edward S. Redstone
 Mr. and Mrs. John G. Reed
 Mr. Roger S. Robinson
 Mrs. John D. Rockefeller
 Mr. Andrew C. Rose
 Mr. and Mrs. Daniel Rose
 Mr. and Mrs. Mark K. Rosenfeld
 Mr. and Mrs. Thomas A. Rosse
 Mr. Harold Sack
 Mr. and Mrs. Ira Sahlman
 Dr. Ivan C. Schatten
 Mr. Walter Scheuer
 Mr. and Mrs. Sherwin Schreier
 Mr. and Mrs. Edward Shein
 Dr. William L. Shumate, Jr.
 Mr. Richard E. Smitt
 Mr. and Mrs. Eliot Snider
 Mr. and Mrs. Jack Solway
 Mr. Jerry I. Speyer
 Ms. Susan Stary-Sheets
 Mr. and Mrs. Emanuel Sulkes
 Mr. and Mrs. Richard L. Swig
 Mrs. Rebekah A. Taube
 Mrs. Maryann Taylor
 Mr. Richard Teller
 Mr. Peter Terian
 Mr. James F. Thatcher
 The Armand Hammer Foundation
 The Golden Gallery
 The Pace Gallery of New York, Inc.
 Mr. Richard Thieriot
 Mrs. Phyllis A. Thompson
 Tiffany & Co.
 Mr. and Mrs. A. Richard Tischler
 Mr. and Mrs. Edward C. Topham
 Mr. and Mrs. Terry Trotter
 Mrs. Helen Sonnenberg Tucker
 Dr. and Mrs. Lawrence Usher
 Vallejo Gallery
 Mr. Robert C. Vose III
 Mrs. Evelyn R. Wagstaff-Callahan

Mr. Duane A. Wakeham
Mr. and Mrs. Alvin Wasserman
Mrs. Jeanne L. Wasserman
Mr. and Mrs. William H. Weed
Ms. Kathleen Westin
Mr. Eli Wilner
Mr. and Mrs. Alfred S. Wilsey
Mrs. Wallace S. Wilson
Mr. and Mrs. Warren R. Woodward
Mr. and Mrs. Gerold Wunderlich
Mr. Richard T. York
Simon and Paula Young

\$250 or more

871 Fine Arts
Mr. Robert H. Adams
Mr. and Mrs. Robert A. Allesee
Mrs. Carolyn Alper
Mr. and Mrs. Stephen S. Alpert
Alpha Gallery, Inc.
Architectural Accents, Inc.
Mr. and Mrs. Jerome Ash
Mr. and Mrs. R. Stanton Avery
Mr. John P. Axelrod
Mr. Richard Brown Baker
Mr. Morton Barak
Mr. and Mrs. Mandell L. Berman
Mrs. Marcia Allen Bielfield
Bijou Fine Art
Bingham Gallery
Mr. John I. Bloom
Mr. and Mrs. Harold Blumenstein
Mrs. Harry Bond
Mr. and Mrs. Paul Borman
Mrs. Ruth Bowman
Mrs. Robert Brackman
Brandywine Fantasy Gallery
Mr. and Mrs. H. Theodore Brosch
Mr. C. Henry Buhl
Mrs. John Lee Bunce
Ms. Catherine E. Burns
Mr. John William Butler, Jr.
Mrs. Martin L. Butzel
Mrs. Stanford Calderwood
Carlson Gallery
Mr. and Mrs. Ralph C. Chapa

Mr. Ivan Chermayeff
Childs Gallery Limited
Ms. Odile Duff
Mrs. Sylvia Cohen
The Honorable Avern Cohn
Mr. Thomas Colville
Mr. George Comenos
Mr. and Mrs. Richard Conrad
Ms. Bonnie Crane
L. S. Daniels
Mrs. Gladys Krieble Delmas
Ms. Margaret H. Demant
Mr. and Mrs. James C. DeWoody
Mr. and Mrs. Howard M. Dubin
Mr. and Mrs. Irving Dworkin
Ms. Irma B. Elder
Mrs. Beatrice Elkin
Mr. Thomas A. D. Ettinghausen
Mrs. Harris Fahnestock
Mr. Burton D. Farbman
Mr. Alfred Feinman
Mrs. Hortense F. Feldblum
Fenn Galleries
Fine Art Conservation
Mrs. Philip H. Finn
Mr. Robert Forbes
Mrs. Molly A. Foreman
Mrs. Lewis Fraad
Mr. and Mrs. Sam Frank
Mr. and Mrs. Walter J. Fried
Miss Elizabeth H. Fuller
Mr. Frederic J. Fuller, Jr.
Mr. Roger Genser
Giltwood Studios
Mr. and Mrs. Jerome M. Glassman
Mr. and Mrs. Stanley Glen
Mr. and Mrs. James W. Gorman
Mr. and Mrs. Steven Grand-Jean
Mrs. Gerold M. Grodsky
Mrs. Agnes Gund
Mr. Philip J. Hahn
Ms. Helen Hall
Mr. Ronald R. Hall
Miss Grace V. Hartley
Mr. and Mrs. E. Jan Hartmann
Mrs. Iola S. Haverstick

Mr. and Mrs. E. H. Heaton
 Mr. William H. Heins
 Mr. and Mrs. Walter W. Hess, Jr.
 Mr. and Mrs. Timothy Hill
 Mrs. Alexander P. Hixon
 Mrs. Oveta Culp Hobby
 Mr. David J. Howard
 Mr. and Mrs. John A. Howat
 Mr. and Mrs. James Humphry III
 International Sales and
 Engineering, Inc.
 Mrs. Philip Oselin
 J. M. W. Company
 J. N. Bartfield Art Galleries
 Mr. James A. Jacob
 Jamison Thomas Gallery
 John Pence Gallery
 Mr. and Mrs. Henry C. Johnson
 Mrs. Earle M. Jorgensen
 Mr. and Mrs. William L. Kahn
 Mrs. Jacob Kainen
 Mr. and Mrs. John Kantgias
 Cis and Martin Kellman
 Mrs. Kathleen Kendrick
 Mr. Richard Kerwin
 Knoke Galleries
 Ms. Jill B. Knoth
 Mr. and Mrs. Robert P. Kogod
 Mrs. Sylvia Krause
 Miss Antoinette Kraushaar
 Mrs. Roger Kyes
 Dr. and Mrs. Myron M. LaBan
 Martin J. and Cecile Landay
 Mr. and Mrs. Alvin S. Lane
 Laura Russo Gallery, Inc.
 Mr. Roy H. Lawrence
 Mr. Raymond Learsy
 Mr. and Mrs. Arthur D. Leidesdorf
 Mr. and Mrs. Sydney Lewis
 Dr. and Mrs. Stephan J. Loginsky
 Mr. Andre Lopoukhine
 Lyons Ltd. Antique Prints
 Mrs. Marion Berger Maker
 Mrs. Fleur Manning
 Mrs. James S. Marcus
 Mr. and Mrs. Frank S. Marra
 Mrs. William A. Marsteller
 Mr. Kenneth P. Miller
 Mrs. Susan McClatchy
 Mr. Thomas McCormick
 Ms. Elaine McKeon
 Medici Books
 Michael Kizhner Fine Art
 Joan Michelman
 Mr. and Mrs. Daniel Morley
 Mr. and Mrs. Donald E. Morris
 Mr. and Mrs. Lester S. Morse, Jr.
 Ms. Blanch W. Moss
 Mrs. Nancy Moure
 Ms. Maureen Murphy
 Mr. Raymond D. Nasher
 Neal R. Smith Fine Art
 Caren Nederlander, Ph.D.
 Mr. and Mrs. Albert Nerken
 Mrs. Robert M. Newhouse
 Mrs. Annalee Newman
 North Point Gallery, Inc.
 Mr. and Mrs. Irving Nusbaum
 Mr. and Mrs. Roy Nutt
 Dr. and Mrs. Kevin T. O'Donnell
 Mr. Calvin W. Odom
 Mrs. Janice C. Oresman
 Mrs. Mary T. Osborn
 Mr. and Mrs. Stephen D. Paine
 Dr. and Mrs. David B. Pall
 Mrs. Pamela R. Peabody
 Mrs. Henry Pearlman
 Mr. Frank Perry and Ms. Barbara
 Goldsmith
 Mr. William Postar
 Mrs. James A. Rawley
 Mr. and Mrs. Gerald Richter
 Mr. and Mrs. Samuel Robert
 Mr. and Mrs. Donald J. Robinson
 Mr. and Mrs. Arthur Rodecker
 Mr. and Mrs. Irving Rose
 Mr. and Mrs. Adolph Rosekrans
 Mr. and Mrs. Robert B. Rosowski
 Mary, Viscountess Rothermere
 Mr. and Mrs. Thomas W. Russell, Jr.
 Mr. Samuel Sachs II
 Mr. and Mrs. William F. Sankovich

Representative and Mrs. James
 H. Scheuer
 Mr. and Mrs. Thomas L. Schoenith
 Mrs. Lillian Schwartz
 Mrs. John Sculley
 Mrs. Stuart R. Shamburg
 Mr. and Mrs. Jerome M. Shaw
 Skinner, Inc.
 Mrs. Dennis J. Slatkin
 Dr. and Mrs. Edward L. Sleeper
 Mrs. J. Scott Smart
 Mrs. Betty S. Smith
 Mrs. J. Henry Smith
 Mr. Joel Spear, Jr.
 Mr. and Mrs. Max Spector
 Mr. and Mrs. Steven J. Stadler
 Mrs. Ronald P. Stanton
 Mr. and Mrs. David J. Supino
 Mr. and Mrs. Albert Susman
 Mr. and Mrs. Harold Tanner
 The Ackley Galleries
 The Lachaise Foundation
 The Redfern Gallery

Mr. and Mrs. Lynn A. Townsend
 Ms. Shirley Tulin
 Mr. and Mrs. Eijk Van Otterloo
 Mr. John Vaughn
 Ms. Rosamond B. Vaule
 Vision Gallery, Inc.
 Mr. Abbot W. Vose
 Mrs. Monique Wagner
 Dr. and Mrs. Michael Wainstock
 Mrs. William C. Wallstein
 Ms. Patricia R. Warner
 Mrs. Joan Washburn
 Mr. and Mrs. Cameron Waterman
 Mr. and Mrs. Ben Weinberg
 Mr. and Mrs. Roger J. Weiss
 Mr. and Mrs. Jerome Westheimer
 Ms. Ruth Westphal
 Ms. Elaine Wilde
 Williams Fine Art
 Mr. and Mrs. James H. Wineman
 Mr. Mark Zaplin
 Mr. Roy Zurkowski

ARTHUR M. SACKLER GALLERY

\$100,000 or more

\$1,000 or more

Andrew W. Mellon Foundation
 Anonymous
 Arthur M. Sackler Foundation
 Yamanouchi Pharmaceutical Co.

American Committee of South
 Asian Art
 Mr. and Mrs. Sid R. Bass
 Joseph F. Fletcher, Sr.
 Mr. Hashem Khosorovani
 Gilbert H. and Ann R. Kinney
 R. H. Ellsworth, Ltd.

\$50,000 or more

\$500 or more

Anonymous
 Mrs. Else Sackler

Ambassador Richard Helms
 Prince Kanyar Pahlavi
 Peter Marks, Inc.
 Kenneth X. and Joyce Robbins
 Doris Wiener

\$10,000 or more

AMS Foundation for the Arts,
 Sciences and Humanities
 Arthur M. Sackler Foundation
 Anonymous

\$250 more

\$5,000 or more

Manny and Ruthy Cohen Foundations

Anonymous
 Mr. Khosro Ehosro
 Mr. and Mrs. Leroy Eakin, III
 Mr. Robert S. McNamara
 Mr. Hassan Nemazee
 Dr. Farah Sadeghian

COOPER-HEWITT MUSEUM

\$100,000 or more

Mr. and Mrs. Arthur Altschul/The
Overbrook Foundation
BASF Corporation
The J.M. Kaplan Fund

\$50,000 or more

The Andrew W. Mellon Foundation

\$10,000 or more

Edward Lee Cave/Grogan & Company
Mrs. Katherine G. Deskey
New York State Council on the Arts
Arthur Ross Foundation

\$5,000 or more

Mrs. Gianni Agnelli
Mr. and Mrs. William B. Boyd
Cosmetic Toiletries & Fragrance
Association
The Cowles Charitable Trust
Johnson & Higgins, Inc.
Peter Krueger-Christie's Foundation
The Joe and Emily Lowe Foundation
New York Telephone
New York Times Company Foundation
Helena Rubinstein Foundation
The Sampson Memorial Trust
Sotheby's Inc.
Mr. and Mrs. A. Alfred Taubman

\$1,000 or more

Anonymous
Hervé Aaron
Mr. and Mrs. William R. Acquavella
Mr. and Mrs. Accevdó Alexander
Placido Arango Arias
John P. Axelrod
Mr. and Mrs. Sid R. Bass
William Beadleston
Beazer Materials & Services, Inc.
Mr. and Mrs. Robert G. Bernbaum
Bill Blass Inc.
John D. Block
Mrs. Dominique Bluhorn
Dr. Annella Brown
Condé Nast Publications

Consolidated Edison Company
of New York, Inc.

Mrs. Rosemary B. Corroon
Dallas Market Center
Robert F. Dennis
Henry Dreyfuss Associates
The Armand G. Erpf Fund
Mrs. Ahmet Ertegun
Ralph O. Esmarian
James P. Flowers
Mr. and Mrs. Ben Fortson
Harmon H. Goldstone
Tom Guinzburg
Mr. and Mrs. Joseph Gurwin
Albert L. Hadley
Michale B. Harkins
Mrs. Enid A. Haupt
The Henry J. and Drue Heinz
Foundation
Marif Hernandez
Frederick W. Hughes
Mr. and Mrs. Fred Imberman
Mr. and Mrs. Robert Israel
Edward Landrigan
Mrs. Meredith J. Long
Elizabeth Lugar
Mr. and Mrs. Richard Manney
Mr. and Mrs. John L. Marion
Mr. and Mrs. Donald B. Marron
Mr. and Mrs. Louis Marx
Cynthia R. Mead
Metropolitan Life Foundation
Mr. and Mrs. Damon Mezzacappa
Mr. and Mrs. Richard W. Moncrief
Mr. and Mrs. Richard Morrill
Mr. and Mrs. Lester S. Morse Jr.
New York University
Mr. and Mrs. James G. Niven
Mr. and Mrs. Thomas Norton
Mr. and Mrs. Richard B. Nye
The Onassis Foundation for
Hellenic Studies
Marta Ortega
Mr. and Mrs. John W. Payson
Mr. and Mrs. Steven E. Pegalis
Mr. and Mrs. Milton Petrie
Mr. and Mrs. J.M. Santo De
David K. Schafer
The Scheuer Family Foundation
Joseph E. Seagram & Sons, Inc.
Mr. and Mrs. Gerald Shaw
Mr. and Mrs. Virgil Sherrill

Eric Shrubsole
Mr. and Mrs. Joel A. Silverman
H.R. Slack
Frances D. Smyth
Ira Spanierman
Mr. and Mrs. William W. Stahl
Dr. and Mrs. Frank Stanton
Garrick C. Stephenson
Arthur O. Sulzberger
Tiffany & Company
Mrs. Constantine Tsitsera
Mr. and Mrs. Senen Ubiña
Urban National Bank
Mrs. Carolota T. Walton
Wertheim Schroder & Company
Mrs. John Hay Whitney
John Wiley & Sons Inc.
Mr. and Mrs. Randolph Williams
Jesse D. Wolf
World Gold Council
Benjamin Zucker

\$500 or more

Mrs. Christian H. Aall
David M. Arendt
Nawaf Attar
Mrs. Clotilde Bacri
Mr. and Mrs. Jeremy W. Bailey
Mrs. Henry F. Berlin
Mrs. Pauline B. Boardman
Ronald P. Bourgeault
Donald J. Bruckmann
Mario Buatta
Mr. and Mrs. Sol Neil Corbin
Mrs. Jan Cowles
George R. Creel, III
Anne P. Dennison
Mrs. Nancy Druckman
Joanne du Pont
Mr. and Mrs. Stephen C. Duggan
David Anthony Easton, Inc.
J. Winston Fowlkes
Mrs. Suzie Frankfurt
John W. Geary II
Mr. and Mrs. S. Parker Gilbert
Stephen Graham
Mr. and Mrs. Verne H. Grinstead
Mrs. Julia Haiblin
William Hodgins
John Jay Iselin
Mr. and Mrs. Deane F. Johnson

Mrs. Ely Jacques Kahn
Peter Kaufmann, Inc.
Calvin Klein Industries, Inc.
Mr. and Mrs. John Klingenstein
Mr. and Mrs. Leonard A. Lauder
Mrs. M. Joseph Leboworth
Mr. and Mrs. Marshall Levinson
ListerButler, Inc.
Peter Marino
Mr. and Mrs. Bruce V. Mavec
George McFadden
Frederick A. Melhado
Herman Miller
Silas R. Mountsier, III
Polly Peabody
Khalil Rizk
James Robinson, Inc.
John V. Rowan, Jr.
Mr. and Mrs. Robert W. Sarnoff
Arnold Scassi
Mrs. Joseph Schillinger
Mrs. Carl L. Selden
Mr. and Mrs. Jeremy Sillem
Mrs. Lawrence Copley Thaw
Mrs. Alexander O. Viotor
Barbara Wasserberg
Mr. and Mrs. James S. Watkins
Mr. and Mrs. Keith S. Wellin
Mr. and Mrs. Jeffrey P. Williams
Mr. and Mrs. Ezra Zilkha

\$250 or more

Mrs. Robert C. Allen
Mrs. Vincent Astor
Alexander Auersperg
Andrew C. Blume
Mrs. Percy E. Boas
W. Mark Brady
Stephen W. Brener
Brunschwig & Fils, Inc.
Mrs. Elaine J. Budin
Alfred D. Cavanaugh
Mr. and Mrs. John W. Chancellor
Citibank
Mr. and Mrs. Kenneth H. Close
Julie H. Colt
William B. Danner
Mrs. Joan K. Davidson
Walter L. Deane
Tristram G. Deery
Pauline V. Delli-Carpini
T. Keller Donovan

William J. Doyle
Thomas J. Edelman
Kathryn Fleck
Mr. and Mrs. Brett D. Fromson
Paul A. Gangsei
Mr. and Mrs. Michael E. Gellert
Ralph Gill
Susan Gillman
Abby Gilmore
Oscar S. Glasberg
Mrs. Joan R. Goldsmith
Mr. and Mrs. Richard L. Gray
Bruce Gregga
Mr. and Mrs. Robert Gross
Michele B. Harkins
Mr. and Mrs. Alan Hartman
Mr. and Mrs. A. Post Howland
Mrs. Annette M. Hughes
Leigh Keno
Steven B. Klinsky
Barbara Dale Knox
Mrs. Emily F. Landau
Maggie Lane
Mr. and Mrs. Ronald S. Lauder
Mrs. Ruddick C. Lawrence
Brian C. Lippey

Ariane M. Loranger
Sara L. MacAllaster
Carey Maloney
Mr. and Mrs. J. Nevins McBride
Mr. and Mrs. James McGovern
Mrs. Florence M. Montgomery
Sandra K. Moore
James Murren
James Parker
Elizabeth K. Peaslee
Mrs. Beverly Lang Pierce
Dr. and Mrs. Jeffrey D. Postman
Mr. and Mrs. Richard G. Powell
Mrs. Judith S. Randal
Mrs. Francine J. Ravitz
Bruce F. Roe
Ruben De Saavedra
Harold Sack
Mrs. Marie S. Schwartz
Mr. and Mrs. Richard G. Scurry
Ruth Lande Shuman
Mr. and Mrs. Paul Ullman
Lenora Volpe
Kenneth H. Weber
Mr. and Mrs. Michael Weisner

FREER GALLERY OF ART

\$100,000 or more

Andrew W. Mellon Foundation
Getty Grant Program

\$10,000 or more

Ellen Bayard Weedon Foundation

\$1,000 or more

Elizabeth Ann and Willard G. Clark
Women's Committee of the
Smithsonian Associates

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

\$10,000 or more

The LEF Foundation
Lewis Unitrust
Leonard C. Yaseen Foundation, Inc.

\$250 or more

David Bermant Foundation

\$1,000 or more

Vivian Horan Fine Arts
The Washington Post

NATIONAL AIR AND SPACE MUSEUM

\$100,000 or more

Lotus Development Corporation
Emil Buehler Trust

\$50,000 or more

Rockwell International
Fokker Aircraft U.S.A. Inc.
Novell, Inc.
NeXT, Inc.

\$10,000 or more

System Planning Corporation
National Broadcasting Company
(NBC)
SNECMA, Inc.
International Federation of
Pharmaceutical Wholesalers M&M
Mars
John F. and Adrienne Mars
Aerospatisale, Inc.
Prime Computer, Inc.
FiberWeb North America, Inc.
Hughes Danbury Optical Systems
Airline Pilots Association
TRW and TRW Foundation
General Electric Corporation
British Aerospace, Inc.

\$5,000 or more

Fairchild Space & Defense
Corporation
CFM International, Inc.
Pratt & Whitney Canada Inc.

CAE-Link Corporation
Rockwell International
Johns Hopkins University
Martin Mareitta Corporation
Indal Technologies, Inc.
Eastman Kodak Company

\$1000 or more

The Boeing Company
National Business Aircraft
Association
Shorts Brothers (USA), INC.
Robert & Eugenia Seamans
Mettler Family Charitable Foundation

Atomic Library & Technology
Foundation
The American Legion #91
R. H. Monroe
Sky-Skan, Inc.
Rolls-Royce, Inc.
Dowty Aerospace Corporation

\$500 or more

Helen J. McCray
Time-Life Books, Inc.
Hal Douglas

\$250 or more

Rio Grande Squadron of A.N.A.
Gaylord & Donnelly

NATIONAL MUSEUM OF AFRICAN ART

\$10,000 or more

Mr. and Mrs. Milton Rosenthal
Shell Oil Company Foundation
James Smithsonian Society

\$1,000 or more

Friends of the National Museum of
African Art
Mrs. Florence Selden

\$5,000 or more

Evelyn A J Hall Charitable Trust
Women's Committee of the
Smithsonian Institution

\$250.00 or more

David Driskell

NATIONAL MUSEUM OF AMERICAN ART

\$50,000 or more

Consolidated Natural Gas
USAir Inc.
James Renwick Alliance

\$10,000 or more

First City Texas Bancorporation
Western Development Corporation and Kan Am
Tom and Ann Cousins
The Getty Grant Program
Dr. and Mrs. Phillip Frost
Summers Group
David Schwartz Foundation
Mr. and Mrs. Wilbur L. Ross, Jr.
Dietrich Foundation
Kemper Foundation
Mr. and Mrs. Jaquelin Hume
Mr. Arvin Gottlieb
IBM Corporation
Mr. and Mrs. Ronald Abramson
Mr. Barney A. Ebsworth

\$5,000 or more

Lichtenburg Foundation
Crown Books Corporation
Mrs. Nan Tucker McEvoy

\$1,000 or more

Mr. Jerome S. Sowalsky
Garchik Family Foundation
Tiffany & Co.
Mr. and Mrs. Melvin Lenkin
Mr. Stuart Feld
The Downe Foundation
Robert H. & Janet F. Fleisher
Foundation
Mr. Ralph O. Esmerian
George and Kay Meyer
Ms. Barbara Johnson
Sarah and Marshall Hemphill
Smithsonian Institution Women's
Committee
Ellin and Baron Gordon
Antiques Magazine
Nancy and Gary Stass
Isobel and Harvey Kahn
Stephanie and John Smithers
Mr. Neal A. Prince
Maitland and Betty Lacey Gordon
John D. Weeden

\$1,000 or more (cont'd)

Mr. and Mrs. Robert P. Kogod
Mr. and Mrs. Samuel W. Koffler
Mr. and Mrs. Norman Bernstein
Mr. and Mrs. James Mitchell
Mr. and Mrs. Alan Sellars
Mr. and Mrs. James Sams
David L. Davies
Mr. and Mrs. Hugh Halff, Jr.
Mrs. Scott L. Libby
Ms. Beatrice Mayer
Mr. and Mrs. Willard Clark
Mr. and Mrs. Frederick Hill
Ms. Constance R. Caplan
Mr. Samuel Rose
Mr. and Mrs. Jacques E. Lennon
Mr. and Mrs. Arthur G. Altschul
Mr. and Mrs. Jacob Kainen
Mr. and Mrs. Victor Beadles
Mr. Edward F. Wilson
William & Virginia Brady Foundation
Mr. and Mrs. Jack Warner
Mr. and Mrs. Meyer P. Potamkin
Mr. Paul Mellon
Mr. and Mrs. Gerald Peters
Mr. Aiken W. Fisher
Ms. Nancy Wellin
The Honorable and Mrs. Oliver Seth
Mr. David S. Purvis
Mrs. John Farr Simmons
Dorothy and Leo Rabkin
Phyllis Kind
The Honorable John D. Rockefeller IV
and Mrs. Rockefeller
Scudder and Helen Smith
Clune J. Walsh, Jr.

NATIONAL MUSEUM OF NATURAL HISTORY

\$250,000 or more
Chevron

\$100,000 or more
Ethyl

\$50,000 or more
Anonymous
Helen W. Buckner
McDonald's
Pew Charitable Trust

\$10,000 or more
Borax
Hitachi Foundation
IJO
Mobil Oil Corporation
National Geographic Society
Phelps Dodge Corporation
Robert Prato
Jonathan and Nancy Ritter
Tiffany and Company
George B. Vogt
World Wildlife Fund

\$5,000 or more
Dr. Richard H. Benson
Chase Manhattan Bank
Cleveland Cliffs Foundation
H. J. Heinz Company Foundation
NERCO
Dan H. Nicolson
The Christensen Fund
Annie B. Wetmore

\$1,000 or more
Richard and Daphne Bertero
Roy S. Clarke
Patricia Jones Edgerton
Field Museum of Natural History
Freeport-McMoran
Virginia Hendry
George and Lucille Jewett
W. Alton Jones Foundation
Robert H. Malott
Orkin
Rudolph and Barbara Peterson
Cesar Pineda
Mary L. Ripley

\$1,000 or more
Anne Sidamon-Eristoff
Sumner Gerard Foundation
F. Christian Thompson
Lillian Turner

\$500 or more
Christine Allen
William Cafritz
Ferdinand Eberstadt
Oliver S. Flint, Jr.
Mercedes Foster
Henry Gemmill
W. Ronald Heyer
Independent Life
Karl V. Krombein
Donald and Barbara Sanning
Texas Marine Mammal Stranding Network
Austin B. Williams

\$100 or more
Armfried Antonius
Azurite Corporation Ltd.
Bender Foundation
Stuart A. Bernstein
William W. Bray
Jack Coopersmith
Roy H. Cullen
Hermen Greenberg
Greenberg Foundation
Gloria S. Hamilton
Dr. M. G. Harasewych
Robert and Gwendolyn Higgins
Patricia E. Howar
Renee Zlotnick Kraft
Tomi and Chris Landis
Michael Lapadula
Agatha Larson
Robert E. Lee
LaSalle D. Leffal
Diane and Mark Littler
Los Angeles County Museum
Paul and Lucia Matzger
Hanne M. Merriman
Mini Page Publishing Co.
Beth B. Norden
Claire Jean Prager
Chester C. Roys

\$100 or more
Farol Sereteau
Louisa Steck
Harrison T. Watson, Jr.
Sidney S. Zlotnick

\$50 or more
George Economos
Jeannine S. Clark
Don Cooper
Dr. G. B. Curry
Oliver S. Flint, Jr.
Dr. Mark James
Lloyd Peck
Kenneth A. Rasmussen
University of Oregon
University of New Brunswick
USA Child Development Center
Frank H. Wetzel

\$10 or more
Gerald J. Bakus
William E. Barber
William K. Beatty
Johnny M. Bell
Beatrice L. Burch
Alvin K. Chock
Roger J. Cuffey
Department of Conservation
Ronald P. Durbin
L. Gornflo
Henning Grossmann
John Gurche

Neil Harriman
Hercules Research Center
Dr. Asha S. Hirwe
Dr. William B. Jackson
Roger and Nancy Lavoie
Norman E. Leppert
Helia and Esther Leppi
Phillip S. Lobel
Mark Mabin
Ian G. MacIntyre
Keith Marshall
Wayne Mathis
H. E. Maude
Daniel J. Monagle
Storrs Olson
Gustav Paulay
Primary Industries
Edward A. Raymond
G. J. Raymond
Louise T. Raymond
Harald A. Rehder
William B. Robertson
Pamela Roe
Brian R. Rosen
Royal Society
Victor G. Springer
Frederick W. Taylor
Joshua I. Tracy, Jr.
University of Miami
University of Queensland
Malcolm P. Weiss
Roland R. West
Richard G. Zingmark

NATIONAL PORTRAIT GALLERY

\$100,000 or more
The Tennessee State Museum

\$10,000 or more
Anonymous
Margaret Martin Brock
Herman Chanen
Tom Chauncey
Mobil Oil Corporation

\$5,000 or more
The Clarence and Jack Himmel Foundation
Morgan, Lewis & Bockius

\$1,000 or more
Gettysburg College
Jack Haas
Chester H. Lasell
Ms. Patricia O'Toole
The Ruth and Frank Stanton Fund

\$250 or more
Mrs. Joseph C. Cornwall

OFFICE OF ELEMENTARY AND SECONDARY EDUCATION

\$10,000 or more
Brother International Corporation, Somerset, N.J.
Phil Hardin Foundation, Mississippi
American Airlines

OFFICE OF FOLKLIFE PROGRAMS

\$100,000 or more
Government of the
U.S. Virgin Islands
American Committee on the French
Revolution
Ford Foundation

\$50,000 or more
Music Performance Trust Funds

\$10,000 or more
Victor Company of Japan
Institute of International
Education
CBS Records
The L. J. and Mary C. Skaggs
Foundation
Ruth Mott Fund
Inter-American Foundation
Arab American Cultural
Foundation

\$5,000 or more
Ralph and Kate Rinzler
Bill and Camille Cosby
Virgin Islands AT&T
West Indian Company Ltd.
Little Switzerland

\$1,000 or more
Caribbean Host
Caribbean Safewater Lab.
Caribbean Shell Seekers
Paradise Motors, Inc.
Laura Bolton Foundation
Government of Quebec

\$500 or more
Cardow Inc.
Rutgers University
Tropex, Inc.

\$250 or more
Pier 1 Imports

OFFICE OF PUBLIC AFFAIRS

\$1,000 or more
Phillips Petroleum Foundation, Inc.

OFFICE OF ASSISTANT SECRETARY FOR EXTERNAL AFFAIRS

\$100,000 or more
W. Alton Jones Foundation
Mrs. Kathleen C. Mason

\$10,000 or more
The Homeland Foundation
Ford Foundation
Carnegie Corporation of New York
Mrs. Marjorie Arundel
Mrs. Kathleen C. Mason

\$500 or more
Garden Club of East Hampton

SMITHSONIAN RESIDENT ASSOCIATE PROGRAM

\$50,000 or more

Riggs National Bank

\$1,000 or more

James and Marjorie Akins

\$250 or more

David E. Amtower
Alexandra Blackhurst
Peter A. Bleyler
Harold M. Boslow
Margaret Bougok
Patricia C. Bowman
Cynichia R. Braxton
Richard E. Buba
Cora S. Buell
Darcie Byrn
Brenda Carr
C.D. Crocker
Margaret M. Dahm
Leticia Delpilar
Mr. and Mrs. Alfred C. Dobbs
David C. Dressler
Joseph M. Dukert
Mary Jane Edward
Anna R. Everett
Irving and Esther Strum
Foundation
Thomas Q. Garvey, III
Gregg H. Golden
Elinor Goodspeed
Moses Gzonsky
Philip D. Hale
Allen R. Halper
Dale A. Hedges
Kenneth Hitch
James S. Hotop
William H. Hunter
Wendy John
Arthur Johnson
Bruce E. Johnson
Sheldon T. Katz
Ronald J. Knecht
Colonel and Mrs. W. K. Konze
James S. Lacock
Emanuel Landau
Mr. and Mrs. Robert H. Lando
L. E. Laurion

\$500 or more

Union Labor Life Insurance Co.
Elizabeth W. Glascock
Jacob Kainen
W. Raymond Mize, Jr.
Albert H. Small
Otto A. Zipf

Paul D. Lew
Wilbur Loren Lindholm
Rex A. Maddox
Pal Maleter
John S. McDaniel, Jr.
Karen McGuinn
James E. Miller
Steve Mondora
Ulric Montcalm III
Karen Newman
Brad O'Leary
Mr. & Mrs. Dennis O'Sullivan
Ted B. Olson
Ray N. Perrault
Lynne Sparks Pickard
John N. Plakias
Robert W. Root
Abner Sachs
Alan B. Salisbury
Nancy C. Saltford
Suzanne Schiffman
Vera Schneider
Curtis L. Scribner
Mr. & Mrs. Harold Selinsky
Scott G. Shadle
Roy J. Shanker
David E. Shiffrin
Lester P. Silverman
Janet S. Smith
William B. Snyder
Lynn A. Soukup
Richard Stickell
Mr. Beverly Thompson
Benjamin W. Thoron
John E. Toole
George E. Viereck
Joe Wesson
Grover C. White, Jr.
Herb White
Walt H. Wolf

OFFICE OF TELECOMMUNICATIONS

\$50,000 or more
Kajima Corporation
Ministry of the Environment
of the Netherlands

\$10,000 or more
Philecology Trust
James Smithson Society

DONORS TO THE COLLECTION

SMITHSONIAN INSTITUTION ARCHIVES

S. Stillman Berry Estate: papers of S. Stillman Berry
Nazaret Cherkezian: taped reminiscences
Mark H. Dall: papers of Mark H. Dall
Gabrielle Edgcomb: taped interviews of refugee scholars of the thirties at historically black colleges
Edward Porter Henderson: taped reminiscences
George A. Norton: George A. Norton slides
Storrs L. Olson: papers of Storrs L. Olson
Ella B. H. Pearis: taped reminiscences
Nathan Reingold: papers of Nathan Reingold
S. Dillon Ripley: papers of S. Dillon Ripley
Curtis W. Sabrosky: papers of Curtis W. Sabrosky
Lawrence E. Skog: papers of Lawrence E. Skog
Lawrence A. Walkinshaw: papers of Lawrence A. Walkinshaw
Wilcomb E. Washburn: papers of Wilcomb E. Washburn
Fred L. Whipple: papers of Fred L. Whipple
Frank C. Whitmore, Jr.: taped reminiscences
Frank C. Whitmore, Jr.: papers of Louis L. Ray

Institutions

American Association of Field Ornithologists: records of the Association
American Association for Zoological Nomenclature: records of the Association
American Fisheries Society: records of the Society
American Ornithologists' Union: records of the Union
Biological Society of Washington: records of the Society
Colonial Waterbird Group: records of the Group
Museum Computer Network: records of the Network
The Crustacean Society: records of the Society
The Herpetologists' League: records of the League
Washington Conservation Guild: records of the Guild

SMITHSONIAN INSTITUTION LIBRARIES

Individual Donors

Mrs. Judi Achjadi
 Mr. Kunle Adeyemi
 Ms. Judith S. Aldrick
 Mr. Basel Arendse
 Dr. Marion Arnold
 Mr. Samuel B. Bandara
 Mr. Frank H. Beberdick
 Mr. Silvio A. Bedini
 Ms. Sonja Begg
 Dr. Wolfgang Bender
 Ms. Michelle Arias Bernard
 Dr. Barbara Blackmun
 Mr. Maurice Bonnefoy
 Mr. Charles Bordogna
 Mr. Nikk Burrige
 Her Excellency Madame Sophia Buyoya
 Ms. Sokari Douglas Camp
 Ms. Susan Fifer Canby
 Mr. Felix Chayes
 Mr. Herman Copen
 Mr. Mark Dafforn
 Ms. Esther Dagan
 Mr. Malcolm B. Decker
 Mme. Rachida De Souza
 Dr. Gustavo Adolfo Del Angel Mobarak
 Dr. Ronald J. Duncan
 Mr. Pete J. Dunn
 Ms. Nathalie Duparc
 Ms. Nancy W. Edelman
 Mr. A. Eggerton
 Mr. Osa Egonwa
 Ms. Janita Elton
 Dr. Mary Frances Ericksen
 Ms. Vera Espinola
 Mr. Richard Estes
 Mr. Richard Faletti
 Mr. Jacques Felix
 Mr. Albert Ferral
 Mr. John T. Fesperman
 Ms. Susanne K. Frantz
 Mr. Tom Freudenheim
 Ms. Nancy Fuller
 Dr. Boube Gado
 Mr. David P. Gamble
 Mr. Jaroskaw B. Garlicki
 Mr. Armin W. Geertz
 Dr. John S. George
 Dr. Marek Golebiowski
 Dr. Julio Sanchez Gomez
 Ms. Margaret E. Groves
 Prof. G.V. Gukov
 Dr. Joel M. Halpern
 Mr. M.G. Harasewych
 Mr. Saidou Harouna
 Ms. Loretta Harrison
 Dr. Joshua Hayes
 Mr. Ed Heller
 Mr. Olav Holden
 Mr. William W. Holloway, Jr.
 Mr. Elton Louis Howe
 Mr. Paul Igus
 Dr. Pascal J. Imperato
 Mrs. Nicholas Ippedico
 Mrs. Karen Singer Jabbour
 Mr. Werner Janney
 Dr. Barbara Jarocki
 Mrs. Edwin K. Jaycox
 Dr. Dele Jegede
 Prof. Bennetta Jules-Rosette
 Mrs. Florence Greasley Knighton
 Mr. Ray Kondratas
 Ms. Marilyn La Porte
 Ms. Anita Larsson
 Mr. Djoulde Laya
 Mr. Eli Leon
 Mr. Hewlett W. Lewis
 Ms. Jane Litwak
 Mrs. Helen Loerke
 Mr. Darrell Lucas
 Dr. Carlyle A. Luer
 Mr. Phillip Lundeberg
 Dr. Harold Lyons
 Dr. Alfredo Pinheiro Marques
 Dr. Masafumi Matsui
 Mr. Dennis McCarty
 Mrs. Grace B. McLucas
 Mr. Barry McQueary
 Mr. James G. Mead
 Dr. Richard Mitchell
 Ms. Mary E. Muehleisen
 Ms. Marion John Nelson
 Mr. Clarence A. Newell
 Mr. Dan H. Nicolson
 Dr. Ted Norris
 Mr. Greg Odo
 Dr. Tunde Okanlawon
 Prof. Uche Okeke
 Dr. W.D. Okrafo-Smart
 Dr. Wilhelm Ostberg
 Mr. Ota-Okoche Ota
 Dr. Lynne Parenti
 Dr. Jashbhai C. Patel
 Mr. Victor Manuel Patino
 Dr. Sharon Patton
 Dr. Zdravka Pecar
 Mrs. Cindy Pedder
 Prof. Louis Perrois
 Mr. G. Pilleri
 Mr. Wolfgang Rauchfuss
 Mr. Timothy J. Reese
 Mrs. A. H. Reu
 Mr. James R. Roehl
 Ms. Millie Roman
 Mr. Charles A. Ross

Mr. James Ross
Prof. Christopher Roy
Dr. William Saylor
Mr. Alex Scott
Ms. Catherine Scott
Mr. David Shayt
Dr. Roy Sieber
Mr. William C. Siegmann
Ms. Celeste A. Smeland
Dr. Victor Springer
Mr. Christopher B. Steiner
Mrs. Elizabeth C. Stone
Mr. Louis de Strycker
Mr. Hans-Dieter Sues
Mr. & Mrs. William J. Svirbely
Mrs. Helen Swim

Dr. Aldo Tagliaferri
Ms. E. O. Tuedor
Dr. Angelika Tunis
Mr. Obiora Udechukwu
Mr. Noel Vietmeyer
Ms. Ingeborg Walde
Ms. Roslyn Walker
Mr. Newt Warner
Ms. Ellen B. Wells
Ms. Katherine Welsh
Ms. Marjorie R. Wilkov
Dr. J. Trevor Willism
Mr. Paul Wilson
Dr. Thomas H. Wilson
Mr. Stanley D. Zimmerman
Dr. George Zug

Institutional Donors

AGRITEX, Zimbabwe
Archives Culturelles du Senegal
Association of Physical Plant
Administrators of
Universities and Colleges
Basel Mission Library
Benue State Council for Arts
& Culture
Bibliotecă Nacional, Brazil
Chrysler Museum
Division of Cultural Heritage UNESCO
Durban African Art Centre Assn.
Edition Leipzig
Galerie Amrad
Georgia Museum of Art
IFA Galerie und Kontaktstelle
Instituto Nacional do Patrimônio Cultural
Institute of African and Asian Studies
Istituto Italo-Africano
Italian Cultural Institute
Johannesburg Art Gallery
Katholieke Universiteit Leuven, Centrale Bibliotheek
Knoll International Library Company of Philadelphia
Maryland Historical Society
Milwaukee Art Museum
Musée Crozatier
National Library of Medicine
National Commission for Museums and Monuments
National Swedish Institute for Building Research
Northern Indiana Historical Society
Odebrecht SA
Providence Preservation Society
Sociedade Nacional de Belas Artes
South African National Gallery
Tasaday Community Care Foundation, Inc.
University of Calabar Library
Volkerkundemuseum der Universität Zurich
Vrej Baghoomian Gallery
Walker Art Center

ANACOSTIA MUSEUM

Norman Novak, One Douglas Wilder campaign sign and Martin Luther King calendar, January 1990.

Henry Whitehead, Five news clippings, four letters, set of stationary, one pamphlet and three flyers on race relations, June 1990

George Evans, Twenty-four Streetfare Journal posters, May 1990

David Driskell, Two pieces of wood and two pieces of handmade paper as examples of artists' materials, July 1990

ARTHUR M. SACKLER GALLERY

- Ms. Idamae Burati, in memory of Valery Burati. Ceramic tray by Hamada Shoji, black glaze with floral design. Japan. (S1989.31).
- Estate of Wang Jiyuan through the School of Chinese Brushwork. Six paintings by Wang Jiyuan (1895-1975), Chinese/American. "Poinsettias," 1954, ink on paper, scroll (S1989.10); "Pine Needles in a Vase," ink on paper, scroll (S1989.11); "Chrysanthemums," 1958, ink on paper, scroll (S1989.12); "Peonies," ink on paper, scroll (S1989.13); "Young Ink Bamboo," 1956, ink on paper, scroll (S1989.14); "Nude," ink on canvas board (S1989.15).
- Mr. and Mrs. Charles and Mary Catherine Page. Paints on fabric, Pechwai, India, 18th C. (S1989.20).
- Mr. and Mrs. Charles and Mary Catherine Page. "Sacred Garden, Honolulu," by Tseng Yu-ho (Betty) Ecker, Chinese/American, 20th C., 1961. Collage mounted on masonite (S1990.2).
- Ms. Elizabeth Robb. Pleated skirt, silk with gauze weave decoration and silk and metallic thread. China, late 19th-early 20th C. (S1990.1)
- Mr. and Mrs. Joyce and Kenneth X. Robbins. Two Cambodian shadow puppets: animal skin, unpainted horse, and unpainted demon (S1989.17, S1989.18).
- Mr. Hamada Shinsaku. Ceramic platter by Hamada Shinsaku, wax-resist design in variegated iron-glaze. Japan, 20th C. (S1989.29).
- Mr. Raghubir Singh. Group of 71 color photographs by Raghubir Singh (1942-). Type C prints. Contemporary. (S1989.21.1-71.)
- Mr. Mitsuru Tajima. Seven pieces of Japanese ceramics. Plate by Hamada Shoji, matte brown glaze with intersecting stripes (S1989.22); plate by Hamada Shoji, cream-glaze with calligraphic "sugar case" design (S1989.23); tea cup by Hamada Shoji, glossy brown exterior glaze (S1989.24); jar by Hamada Shinsaku, cream and iron-black glaze, painted iron decor (S1989.25); tea bowl by Hamada Shinsaku, buff glaze (S1989.26); sake cup by Hamada Shinsaku, buff glaze with iron decoration (S1989.27); and bottle by Shimaoka Tatsuzo, four-side with white slip under clear glaze wave pattern cut into sides of bottle (S1989.28).
- Mr. and Mrs. Ann and Alan Wolfe. Stone sculpture head of Buddha, probably schist, Gandharan. ca. 3rd C. (S1989.19).

Transferred from SI National Museum of Natural History. Five Chinese paintings: "Leaping Carp," by Xu Wei (1521-1593), Ming dynasty, hanging scroll, ink on paper (S1990.13); "Lohan," by Jin Nong (1687-1763), hanging scroll, ink and color on paper (S1990.14); "Pleasure in Fishing," anonymous, Song dynasty (960-1279), hanging scroll, ink on silk (S1990.15); "Red Plum Blossoms," by Yao Shou (1423-1495), Ming dynasty, handscroll, ink and color on paper (S1990.16), and Landscape in the Sytle of Huang Gongwang, anonymous, Ching dynasty, 19th C., hanging scroll, ink on paper (S1990.17).

Mrs. Rolf Jacoby. Calligraphy album. China, Qianlong period (?); ink on paper (SSC1990.1)

Anonymous. Seven paintings by Cheng Jiezi (1910-1986), China; ink and colors on paper: "The Artist's White Cat," 1974; In the sytle of Qia Shumei, 1944; "Lofty Scholar in an Autumn Grove," 1950; "Plum Flowers and a Beauty," 1960; "Scholars with a Ruan in a Bamboo Grove," late 1950s; "Playing the Bamboo Flute," 1962; and "Eight Drunken Immortals," 1984 (SSC1990.2-8)

COOPER-HEWITT MUSEUM

Alexander Julian Inc., length of fabric (1990-75-1)
Arai Creation System, lengths of fabric (1990-82-1-5)
Roger Arlington, lengths of fabric "Grenoble" and "Hokkaido"
(1990-38-1-2)
B&B Italia, three lengths of fabric (1990-43-1-3)
Balmain, Paris, perfume bottle and stopper, France (1990-114-1ab)
Barnes, Jhane, eight fabrics by the artist (1990-85-1-8)
Henry Bauer in memory of my father David Bauer, stoneware platter
(1990-88-1)
Creation Baumann, lengths of fabric, Switzerland (1989-102-1-5),
(1990-80-1-4)
Gretchen Bellinger, lengths of fabric (1990-81-1-4)
Enzo Bertazzo, length of fabric, Italy (1990-106-1)
Bloomcraft, length of fabric, c. 1940 (1990-86-1)
Trudy Borenstein-Sugiura, pair of chopsticks (1990-103-1ab)
Brightman Design, bracelet, brooch and tray, USA (1990-66-1-3)
Dr. and Mrs. Milton Brown, 8 posters, (1989-107-1-8)
Sheila Bruce, folding and pleated fans, fan boxes, (1990-25-1-22)
Brunschwig et Fils, length of damask, late nineteenth century
(1990-73-1)
Lois Bryant, design for textile (1990-64-1)
Sol Chaneles, child's chair with tray, c. 1900, Austria
(1989-111-1 ab)
China Seas, woven and printed fabrics (1990-13-1-9)
City Limit, set of 8 folding vessels, France (1989-108-1-8)
Priscilla Cunningham, drawings for wallpaper and textile design
(1990-100-1-10)
Dandelion Tampopo, bowls, 3 wooden and 1 iron (1990-65-1-4)
Darwin K. Davidson, chromed metal and plexiglass lamp
(1989-104-1)
Gail Davidson, vase, c. 1904-1920, Austria (1990-24-1)
Jacqueline Davidson, roll of wallpaper, USA (1990-83-1)
Elaine Evans Dee, "Princess" telephone, (1990-1-1)
Mrs. Lammot du Pont Copeland, various fabrics, early eighteenth
century (1990-99-1-4)
Mrs. Olive Emslie, two chairs, USA (1990-112-1-2)
Eve Kaplan Design Inc., necklace, brooch and earrings
(1990-107-1-3ab)
Margaret Fikioris, linen placemat and napkins (1990-98-1-4)
Helen Simon Flowers, chafing dish of silver and rosewood
(1989-105-1 a-e)
Tom Freudenheim, pair of identical curtains, Germany
(1990-10-1ab)
Pierre Frey, length of fabric "Les Vendages", France (1990-69-1)
Ruth K. Friedlich, ceramic vase, c. 1898-1913 (1990-16-1)
Dorothy Gallanter, chromolithographed fan leaf, England
(1990-76-1)
Gallery 91, brooch, 3 bowls and a lamp, (1990-17-1-5); lamp and
set of cutlery (1990-109-1a/d-2-a/h)

Garth Clark Gallery, vase and wooden bowl, The Netherlands
 (1990-34-1-2)
 Andrew Joseph Nystrom Gary, ceramic figure, (1990-110-1)
 Gay Freres S.A., brooch, France (1990-60-1)
 Dorothy Globus, printed scarf (1990-91-1)
 Stephen and Dorothy Globus, set of fork, knife and spoon made for
 Air France (1990-32-1-3),
 Margaret and Theresa Gloster in memory of Mary and Margaret
 McElliott, collection of fabric samples (1989-80-1a-kkkk)
 Harmon Goldstone, bowl, England, nineteenth century; vase,
 Finland (1990-61-1abc-2)
 John Gregory, 3 costume drawings (1990-121-1-3)
 Eitel and Frances Groeschke in memory of Pauline and Frank
 Rebajes, group of jewelry by Paul Rebajes (1990-108-1-14)
 Grove and Grove, brooch and pair of earrings (1990-59-1-2ab)
 Gerald Gulotta, teapots, China (1990-78-1ab-7ab)
 Mei Guo, 5 paper cuts, panda designs, (1990-7-1-5)
 Ms. Julia Haiblen, set of shoe buckles, France (1990-113-1ab)
 Sunar Hauserman, samples of Sunar Hauserman fabric with
 colorways(1989-87-1-25)
 Heberlein Textiledruck AG, textiles "Fortuna" (1989-88-1 a-d)
 Vivianna Torun Bulow Hube and Royal Copenhagen, neckring with 2
 interchangeable pendants and pair of earrings, Denmark
 (1989-106-1-2)
 Nell Riba Hutt, portfolio of ecclesiastical wallcovering designs,
 USA (1990-89-1-53); fabric sample (1990-92-1)
 Mr. Scott Hyde, lithograph "Flower Still IV" (1990-120-1)
 Intair, lengths of fabric "Tempo" and "Antik" (1990-27-1-2)
 Internationales Design Zentrum, Berlin, three posters
 (1990-87-1-3)
 Jack Lenor Larsen, lengths of fabric (1990-79-1-3), (1990-95-1)
 Mrs. Roland Johnson, lengths of woven ribbon, Europe
 (1990-48-1-2)
 Kazuo Kawasaki, 9 "Hola" wall clocks, Japan, (1990-19-1-9)
 Mrs. Jacques Kayaloff, two teapots, Russia, late nineteenth and
 early twentieth centuries (1990-117-1ab-2ab)
 KBC of America, lengths of fabric (1990-74-1-4)
 Nancy Keet, folding chair and bracket, Sweden, (1990-20-1 ab)
 Ronald Kent, wooden bowl, (1990-18-1)
 Knoll International, fabric sample and colorways by Jhane Barnes
 (1989-89-1 a-d), (1990-39-1-3)
 Ronne Lowensteyn, brooches with magnetized forms
 (1990-77-1a/m-2a/1)
 Lumen Center, tables, lamps and casters, France (1990-42-1ab-14)
 Ms. Mickey Mariash, paper alphabet embroidery forms (190-35-1-58)
 Marimekko Oy, length of fabric "Salava" (1990-68-1)
 David McFadden, two posters (1990-36-1-2)
 The Mel Byars Collection of 20th Century Design, various
 tablewares (1990-15-1-20); bowls with serving spoon and
 fork, Denmark (1990-33-1-4)
 Missoni, 3 lengths of fabric, (1990-5-1-3)
 Richard and Carol Morrill, fork and knife, Scotland, eighteenth
 century (1989-95-1-2)

Mr. and Mrs. Richard Morrill, set of fork, knife and spoon with box, England (1990-21-1-4)

Gillian Moss, 1849 invoice from Baudoine Warehouse (1990-37-1)

Edward Munves, goblet with pouring lip, England, eighteenth century, (1990-3-1)

NUNO Corporation, lengths of fabric (1990-63-1-10)

Kenji Okusawa, kimono fabric, Japan (1989-99-1)

Old World Weavers, length of woven silk (1990-28-1)

Osborne & Little, length of fabric "Large Flower" (1990-104-1)

Peggy Osterkamp, needle-knotted lace collar, Eastern Europe (1989-91-1)

Alvin and Eileen Preiss, biscuit tins, England, late 19th and early 20th centuries (1990-93-1-15)

Raynaud & Cie, porcelain tableware from "3/T" pattern, France (1990-58-1ab-11)

Robertson Mead Handprints, length of fabric "Terra Australis" Australia (1989-101-1)

Edouard Roditi, jardiniere, France, late nineteenth century (1989-81-1), three vases (1990-94-1-3)

Emilio Sanchez, color lithographs and a poster, (1990-9-1-5), Scalandre, 110 rolls of wallpaper borders manufactured by Duro, Dex, Trimz, (1990-84-1-110)

Alice and Leslie Schreyer, package label for cotton goods "Toucan" (1989-92-1)

Barbara Harding Seibert, 2 lengths of fabric by Barbara Harding, 1952-55 (1989-94-1-2)

Roger H. Selchow, 9 prints, sixteenth to nineteenth century (1989-112-1-9)

Ms. Megan Smith, christmas card design c. 1939 (1990-122-1)

S.N. Faienceries de Gien, tableware in the "Angle" pattern (1989-97-1-25)

Alice Stern, inkwell, France (1990-118-1ab)

Tanus Textildruck Zimmer, fabrics produced by Tannus (1990-105-1-14)

Mr. and Mrs. John M. Thompson in memory of Mr. and Mrs. G. Auclair, selection of cutlery, France, late nineteenth and early twentieth century (1990-67-1-15)

Ted Tyler, length of fabric "Cabbage Rose" (1990-72-1)

Rick Vermeulen, 5 posters, HARD WERKEN DESIGN, Holland (1989-85-1-5)

V.I.A., lamps, chairs, valet stand and a chest of drawers, France (1990-22-1-13)

Lella and Massimo Vignelli, tableware in "Colorstone" pattern (1990-2-1-9)

Georgina von Etzdorf, scarf, England (1990-71-1)

Paul F. Walter, bowl, "Boat Race Day" pattern, England (1989-110-1)

Weave Corporation, lengths of fabric "Fresco" and "Spoleto" (1990-26-1-2)

West Point Pepperell, printed cotton fabric "Mish Mesh" (1989-93-1)

Mrs. H. W. Wheeler, folding fan, c. 1878 (1990-6-1)

William Wise, three designs for textiles (1989-100-1-3)

Mrs. L. W. Williams, length of fabric and a printed scarf,
(1990-8-1-2)
Ziggurat, 2 floor lamp designs (1990-44-1)
Zimmer-Rhode, lengths of fabric and 2 samplebooks "Carminia" and
"Bonaventura" (1990-12-4), (1990-52-1-3), (1990-62-1)
Anonymous, Ceramic figure, U.S.S.R (1990-111-1)
Unsolicited Gift, five posters (1990-119-1-5), album of french
and american textile designs (1990-124-1-96)

FREER GALLERY OF ART

Mrs. Rolf Jacoby. Figure of the Bodhisattva of Compassion, Guanyin. Dry-lacquer. China. Probably 13th-14th C., Yuan-Ming dynasties. (SC-L-25)
Misses Rajinder K. Keith and Narinder K. Keith. Thali gold marriage necklace, 100 stylized repousse gold garland of jasmine buds linked by small cabochon, semi-precious or colored glass plaes red stones, to a running foliate border. South India. 20th C. In part. (1990.4)
Mr. and Mrs. LaRue Lutkins. Wardrobe with doors, shelves and drawers, huang-hua-li wood, China, Ming-Ch'ing dynasty, 17th C. (1990.6); armchair with woven reed seat, back splat of burl wood, China, 17th C. (1990.7); cabinet with doors and shelf, huang-hua-li wood, China, 20th C. (SC-F-9).
Mrs. John Alexander Pope. Calligraphy by Emperor Ch'ien-lung. Peach silk with gold flecks; hand-painted floral design; panel. China. Ch'ing dynasty, 18th C. (1990.5); 2 Chinese stone seals, Ch'ing dynasty, both with two dragons. Purportedly belonged to the last emperor. (SC-S-76, SC-S-77).

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Dr. and Mrs. C. E. Falk. Acrylic on plexiglass by Gary Falk (89.35).
Martina Hamilton. Oil on canvas by Odd Nerdrum (89.38).
Olga Hirshhorn. Gouache on paper by Paul Wonderlich (89.41).
Olga Hirshhorn. "Presidential Portfolio" in various media by various artists (89.42).
Dr. Ellen H. Johnson. Plywood, sand, and foamcore by Athena Tacha (89.37).
Mrs. Vera List. Granite, slate, and fieldstones by Michael Singer (89.34).
David McKee. Pencil on paper by Gabriel Kohn (90.2).
David McKee. Pencil on paper by Gabriel Kohn (90.3).
Prince Michael of Greece. Marble by Igor Mitoraj (89.39).
Odysia and Federico Quadrani. Pastel on paper by Irving Petlin (89.40).
Leslie Rankow. Oil on canvas by John Alexander (90.1).
Robert Rogers, Jr. Color lithograph by the artist (89.36).
Smithsonian Resident Associate Program. Mixed print media on paper by Jacob Kainen (90.8).

Donors to the Library

Naomi Caryl, Hollywood, California
Olga Hirshhorn, Washington, D.C.
Gene H. LePere, Los Angeles, California

NATIONAL AIR AND SPACE MUSEUM

Airpower Museum. Martin reciprocating aircraft engine.

Anonymous. Handwoven silk and wool tapestry commemorating tenth anniversary of Apollo 11 moonlanding entitled: Moon Landing by Kirk Holger.

Mrs. Amalie A. Ascher. Ten examples of aircraft landing lights, seven landing light lens and light lens for use by airport emergency ground vehicle.

The William Hawley Bowlus Family. One original propeller-spinner nosecone from the Spirit of St. Louis.

Mr. Arthur Raymond Brooks. Thirteen pieces of personal World War I memorabilia including medals, USAS insignia, photographs and documents.

CFM International, Inc. CFM International high bypass turbofan aircraft engine.

Mr. Charles Constanza. Nine various aircraft instruments.

Mr. Dale S. Costello. Five shotgun starter cartridges.

Mr. and Mrs. William Davenport. Piper Apache twin engine aircraft.

Mr. James O. Eggleston. One Rutan VariEze unassembled aircraft kit.

Mr. William F. Farah, CEO Farah Inc. One Douglas A-20J light aircraft.

Mr. Paul E. Garber. Silver lapel pin commemorating Sikorsky VS-300 helicopter.

Glavkosmos. Proton rocket model.

Mr. Sam Goldman - President, Chesapeake Airways Service Corp. One Vickers Viscount four-engine turboprop airliner.

Jet Propulsion Laboratory. Magellan spacecraft model.

M. Clifford Krainik. Fifteen various items of ballooning memorabilia.

McDonnell Douglas. Payload assist module cradle flown on space shuttles.

Mr. Robert McCracken. Two pieces from Skylab.

Mr. Hiram H. Maxim. Formal court uniform worn by Sir Hiram Maxim when he was knighted, and related items.

Mr. Vladimir Minaev. One oil painting entitled: Portrait of Christa McAuliffe.

National Aeronautics and Space Administration, Johnson Space Center. 345 pieces of space food, one 50mm Zeiss camera lens, mockup tractor rocket escape assembly.

National Aeronautics and Space Administration, Langley Research Center. Demonstration Advanced Avionics System, three computer flight instruments.

National Aeronautics and Space Administration, Marshall Space Flight Center. Skylab Apollo telescope mount solar array wing.

National Oceanic and Atmospheric Administration. Mercury Sigma 7 35mm camera.

Naval Research Laboratory. Two complete mass spectrometer and electronics box.

Mr. Donald W. Nyrop. Northwest Airlines playing cards with presentation case.

Mr. Tim Pace. Six aircraft instruments.

Pratt and Whitney Canada, Inc. Pratt and Whitney turboprop aircraft engine.

Dr. Robert R. Rice. One Sikorsky Il'ya Muromets model aircraft.

Romanian Ministry of Defense. One each pilot and technician badges of the Romanian Air Force.

Mr. Clayton Smith. Ten pieces of various radio receiving equipment.

Smithsonian Institution, Exhibits Central. Full scale wood dragonfly model.

Mr. Steven Soter. Life magazine, June 21, 1943.

Teledyne CAE. Teledyne CAE turbojet aircraft engine.

Teledyne Ryan Aeronautical through General Services Administration. One AQM-81A Firebolt drone.

Union of Soviet Socialist Republic Ministry of Defense. SS-20 intermediate

range ballistic missile training model.
United States Air Force, SD/CNAA. Anti-satellite missile and pylon for carrying on F-15 aircraft.
United States Air Force, Kelly Air Force Base, Air Logistics Center. Pratt and Whitney afterburning turbofan engine.
United States Army. Pershing II training missile.
United States Army Ordnance Museum. Forty examples of domestic and foreign rocket ordnance from World War W I through World War II and the Vietnam War, 158 various types of armament including bombs, fuses, shells, machine guns, aircraft canon, sights and controls, survival weapons (pistols) and anti-tank guns.
Volksarmee Museum. Service uniform of the Reserve Pioneer Battalion of the German Air Force, c. 1915.
Mr. Alexander Voutsas. Prototype lunar gravimeter and vibrating string accelerometer with strings, oscillator-amplifier and magnet.
Mr. David E. Weiss. Cockpit instrument lighting equipment kit.
Mr. Snell Youngwall. Seventeen various pieces of aircraft radio equipment.

NATIONAL MUSEUM OF AFRICAN ART

Dr. Ernst Anspach. Rider figure, Senufo peoples, Côte d'Ivoire. (89-11-1)
Dr. Ernst Anspach. Male running figure, Akan peoples, Ghana and Côte d'Ivoire. (90-05-1)
Dr. Ernst Anspach. Pectoral: Two crocodiles with mudfish in mouth, Akan peoples, Ghana and Côte d'Ivoire. (90-05-2)
Dr. Ernst Anspach. Figure of man seated on stool, Akan peoples, Ghana and Côte d'Ivoire. (90-05-3)
Dr. Ernst Anspach. Male figure holding gun, Akan peoples, Ghana and Côte d'Ivoire. (90-05-4)
Claire and Frederick Mebel. Currency blade, Ngbaka peoples, Zaire. (89-18-1)
Robert and Nancy Nooter. Chair, Hehe peoples, Tanzania. (89-10-1)
Roy and Sophia Sieber. Tripod cooking vessel with lid, Jukun peoples, Nigeria. (89-12-1a,b)

NATIONAL MUSEUM OF AMERICAN ART

Anne and Ronald Abramson
Arthur Anderson & Co.
Frank Armstrong
Robert and Judith Bahssin
Stanley Bard
Lou Barlow
Sandra Berler
The Family of A. Aubrey Bodine
Doreen Bolger
Tom and Judy Brody
Blanche R. and Milton W. Brown
Russell Burke III
Capricorn Galleries
Consolidated Natural Gas Company Foundation
The Estate of Patricia Cunningham
Phil Desind
Harriet and Martin Diamond in honor of Elizabeth Broun
John Fago
Gus Foster
Mrs. Joan Becker Gaines
Ronald R. Geibert
Herbert Gentry
Leon Gilmour
Renee and Chaim Gross Foundation
Thomas Haas
Herbert Waide Hemphill, Jr.
Mrs. Jaquelin H. Hume
Winifred M. Jacobson
Ruth and Jacob Kainen
Louis and Annette Kaufman
Thelma and Melvin Lenkin
Magnolia Editions
Man Ray Trust
Roger Mertin
Joe Mills
Jill Moser
Frances Myers
Gladys Payne
Perkins Center for the Arts
E.J. Pretzlaff (in memory of William E. McCleary, Jr.)
The Family of Walter Quirt
Henry Ward Ranger, Bequest through the National Academy of Design
James Renwick Alliance
Dr. and Mrs. Harry Rosenwasser
Judith and Wilbur L. Ross, Jr.
Philip Samuels Fine Art
Schutz & Co.
Joan T. Seaver
Estate of Suzanne M. Smith
Smithsonian Institution Resident Associate Program
Ciel Frampton and Ernest J. Thalinger
Terry Toedtemeier
Louis J. Walinsky

NATIONAL MUSEUM OF AMERICAN HISTORY

- 82nd Airborne Division Association Inc. (through Steven J. Mrozek): WW II paratrooper's blouse and trousers (1990.0275).
- Kareem Abdul-Jabbar: Mr. Abdul-Jabbar's 1990 NBA All-Star basketball uniform shirt and shorts (1990.0186).
- Del Acevedo: baseball autographed by Satchel Paige and Louis Gossett (1990.0005).
- Edie Adams: 3 "Nairobi Trio" gorilla masks with 3 yellow scarves used by Ernie Kovacs on his television shows in the 1950s (1989.0173).
- Robert McC. Adams: stamp pin and a first day cover both commemorating the 20th anniversary of the first moon landing (1989.0475).
- Rita J. Adrosko: woman's hat and umbrella set made in Florence, Italy, 1968-72 (1990.0059); woman's black cocktail dress, 1965-70 (1990.0268).
- American Bicentennial Presidential Inaugural Committee (through Philip C. Brooks): 6 packets, 5 posters, 4 license plates, 3 pamphlets, 2 handbooks, a booklet, catalogue, braille calendar, guidebook, coloring book, brochure, photograph, and a sweatshirt (1989.0260); 16 souvenirs of George Bush's Inauguration, 1989 (1989.0390); 2 books about the American Presidency (1989.0512).
- American Bullion and Coin (through Gene Czaplinsky and Azmina R. Kanji): 4 silver medals of the first commemorative series issued by the Soviet Union, 1987-88 (1989.0069).
- American Chain & Cable Company, Inc., Crane and Monorail Systems Division (through Charles D. Spates and W. L. Stoll): 2 hay conveyors, a photograph album, and a glass plate negative of the Loudon Company (1987.0226); 102 Loudon Company trade catalogues and a model of a cow stanchion (1989.3134).
- Angle Orthodontists Research and Education Foundation, Inc. (through Blain S. Clements and John S. Kloehn): bronze plaque about Edward H. Angle, D.D.S. and his contributions to orthodontics which was exhibited at the 1933 Chicago World's Fair (1990.0306).
- Anonymous: 33 Kitchen utensils made by Revere Copper & Brass, Inc., 28 kitchen tools and knives made by Ekco Housewares Company, a "Minute Minder" timer, aluminum nut dish, and an iron chain with 7 iron tassels (1988.0617); 36 custom hand-made knives from the Albert Blevins Collection (1988.0680); aluminum medallion with the Lord's Prayer cast on one side (1989.0656); 2 brochures, a hat, leaflet, and a poster, all momentos of the Ku Klux Klan movement in the 1920s (1990.0182).
- Government of Antigua, Barbuda Dependency, Barbuda Post Office, Philatelic Bureau: 16 stamps and 3 first day covers of Barbuda (1988.0131).
- Lorae P. Aumack: small learner's violin made by Friedrich Sander of Kaiserslautern, Germany in 1875 and a bow (1990.0136).
- Gary P. and Sandra Baden: 538 patent medicines, cosmetics, and pharmaceuticals (1979.0798).
- Christine A. Baffoni and Elaine Yastishock in memory of Stephen Yastishock: gold dinar of al-Mustansir of the Fatimid Dynasty, A.D. 1087-88 (1988.0711).
- Florence I. Balasny-Barnes: ceramic mug marked "Union Shaving Mug, Pat. Sept. 20, 1870" on base (1989.0405); 2 ceramic shaving mugs and 2 ceramic door knobs, 19th century (1990.0241).

Baltimore & Ohio Railroad Museum, Inc. (through H. H. Harwood): condensing double-end locomotive engine patent model invented by J. P. Woodbury of West Roxbury, Massachusetts, 1871 (1988.0454).

Christopher Barbieri: vibrator set with accessories in its original case (1989.0637).

Margaret Johnson Patterson Bartlett (through Ralph M. Phinney): 3 books owned by President Andrew Johnson, a cloak, and a locket worn by Martha Johnson Patterson (1990.0134).

Preston R. Bassett: 2 bicycle lamps, a tandem bicycle plaque, a League of American Wheelmen stein, and a scarf depicting bicycles (1989.0485).

Mrs. Joseph E. Bastion: 2 albumen photographic portraits by G. W. Davis of Washington, D.C. (296398).

Jean E. and Michael D. Becker: 19th-century German violin (1989.0654).

Edith B. and Frederick R. Bell: 2,428 photographs and photographic material, 104 photo-mechanical prints, 2 pieces of printed ephemera, and a black velvet painting (1986.3048).

Bradley F. and Virginia W. Bennett: 83 coins of ancient Hispania (1989.0634); 37 bronze and silver coins of Celtic tribes, 2nd to 1st centuries B.C.; 14 bronze and silver coins of the Roman Republic, 3rd to 1st centuries B.C.; 8 bronze coins of Northern Italy, 4th to 3rd centuries B.C.; and 8 bronze coins of Ostrogothic kings of the 1st century A.D. (1989.0735).

Charlotte N. Berg: set of textile pattern work sheets and a set of woven samples made by Philip A. Noyes at the Lowell School of Textiles, ca. 1909 (1990.0054); 2 pamphlets with drawing lessons, an album of lesson plates, and a set of triangles all used by Leonard Noyes (1990.0068).

Robert L. Berger: Surgi-Drill oral surgery drilling instrument set, 1966 (1990.0022); 12 aluminum coins, a medal and pin awarded to a woman, wooden tablet, and a box, all from WW II Japan, and a 1944 edition of the Blue Jackets Manual (1990.0286); 11 documents and correspondence related to the Surgi-Drill oral surgery instrument (1990.3010).

Adriana T. and Edwin W. Bitter: Revolutionary Committee of Safety flintlock pistol and a Revolutionary U.S. Rappahannock Forge flintlock military pistol (1989.0149); 6 pistols and a Rappahannock forge musket (1989.0748).

Peter Bodge: 4 black and white linoleum prints of jazz musicians made by Mr. Bodge (1989.0025).

Jane Ann Bolder on behalf of the Robert E. Bolder, Jr. Family: accordion made by Scandalli of Italy, ca. 1935 (1989.0652).

Bowers & Merena Galleries, Inc. (through R. N. Merena): 99 silver coins of the Ptolemies, A.D. 457-483 (1988.0589); silver tetradrachm of Ptolemy V of Egypt, 204-180 B.C., made at the Cyprus Mint (1990.0163).

Reverend Portia F. Bowers: 2 hand-shaped glass vases, ca. 1876, a porcelain dish, ca. 1887, and a covered porcelain waste jar, ca. 1890 (1990.0255).

Boyce and Lewis Shoe Stores (through Stuart T. Eisen): pair of red socks with Bicentennial designs, 1976 (1989.0606).

Jeff Brady: model 1898 bandolier with cartridges (1989.0670).

Arthur D. Bransky, Jr.: Shelby "Shock Ease" girl's bicycle, 1946 (1989.0518).

The Brass Knob Architectural Antiques (through Donetta George): porcelain door knob with lock (1990.0224).

Melvin S. and Nadene A. Brodie: 3 decals and a display card of decals, all with peace symbols of the 1960s (1989.0728).

Elsa M. Bruton: reproduction of an 18th-century woolen cape (1979.3027); medicine cabinet (1979.3055).

John B. Burbridge: 14 pieces of woman's clothing and accessory items and 2 man's vests, 1845-1940 (1990.0296); woman's white muslin slip (1990.3081).

William R. Burgess: Magnetone model BK303 wire recorder made by the Brush Development Company of Cleveland, Ohio, ca. 1946 (1989.0311).

Barbara Pierce Bush: royal blue satin and velvet evening dress with matching stole, shoes, evening bag with 4 accessories, and a 3-strand pearl necklace all worn by Mrs. Bush at the inaugural balls of 1989 and a card with her signature (1989.0209).

James W. Butler: cotton weigh up scale (1989.0423).

Sid Caesar: 5 pieces of clothing comprising the "German Professor" costume worn by Mr. Caesar, his portrait by Merritt Smith, and an Emmy Award given to him in 1952 (1989.0172).

Robert W. Caldwell: 5 modern copies of ancient Greek coins, a silver tetradrachm of Alexander the Great, and a silver hemidrachm of Sikyon, 360-330 B.C. (1987.0033).

Leopoldo Cancio: 2 South American proclamation medals, 2 coin purses, a British boxed scale for weighing sovereigns, a silver stater of Metapontum of 400 B.C., a 4-reales of Boliva of 1701 or 1761, and a silver sol of Peru dated 1891 (1988.0460); 30 bronze coins of ancient Hispania (1989.0262); 37 bronze coins of ancient Hispania (1989.0522).

Donald W. Carlson: 1 Hotchkiss #1 Universal stapler (1989.0601).

Fred Carroll: 4 sticker sheets, 3 bumper stickers, 3 window stickers, 3 buttons, and a badge concerning various labor union causes (1989.0706).

Ethel H. Carter: tractor-pulled tobacco planter, hand-held tobacco planter, and a set of 3 wooden tobacco planting pegs (1989.0600).

Thomas F. Carter: 3 Carterphone telephones and the original patent document, ca. 1969 (1989.0504).

Russell K. Cashdollar: woman's enamel necklace with owl pendant, 1966-72 (1990.0107).

Center for Defense Information (through Adm. Gene La Rocque): videotape cassette of the anti-nuclear war film, It's Up to the Women (1989.0367).

Lawrence U. Chandler, Ph.D.: 3 pairs of woman's stockings, a wedding dress with hat, gloves, and wedding photograph, pair of mitts, parasol, hood, and mourning blouse, 2 infant's bibs and a dress, boy's bathing suit and pair of knickers, child's pinafore, and a man's combination (1989.0418).

Katherine E. and Russell C. Chase: badge from Benjamin Harrison's presidential campaign, 1888 (1990.0128).

Shirley Cherkasky: phonograph record of "Man on the Moon" recorded by Walter Cronkite (1989.0602).

Chesapeake Bay Maritime Museum (through R. J. Dodds): Pacific Northwest Indian canoe model (1989.3129).

Children's Television Workshop (through David V. B. Britt): 8 animation sketches and cells and a "clapper" production slate used on the television show "Sesame Street" (1989.0395).

Valentine Z. Chilk: brass-studded bone needle case carved in the shape of a fish with blue glass eyes, 19th century (1989.0480).

Government of the Republic of China, The Philatelic Department, Directorate General of Posts: 58 stamps, 20 first day covers, 5 revenue stamps, and 4 souvenir sheets of the Republic of China (1988.0011).

David G. Cihla, James Cybul, and Melinda J. Lehman: Shawon-O-Meter sign with 8 extra number cards, a calculator, and a roll of tape all used to keep score of Chicago Cub Shawon Dunston's baseball hits in 1989 (1990.0315).

Dianne B. Clode: book, Unmasked, or The Science of Immortality, To Gentlemen by a Woman Physician and Surgeon, 1888 (1990.0039).

Harold A. Closter: 4 labor union buttons (1989.0704).

Florence K. Cole, Phyllis Disman, and Rita Krasno: 3 dresses, 2 sweaters, and a handbag all knitted by Celia Krasno, 1930-45 (1989.0625).

Helen Hope Colgan: 3 woman's dresses, 3 suits, 2 pairs of socks, a cap, bathing suit, pair of trousers, and a pair of man's socks, all 1940-59 (1989.0460); 2-piece blue nylon Orchesis dance costume worn by Ms. Colgan in the 1950s (1989.0537).

Colorado School of Mines (through W. G. Scott): countercurrent distributor made by the E. C. Apparatus Company, 1963 (1988.0495); 4 glass tubes, 4 metal clips, and a bag of caps from a countercurrent distributor, 1963 (1990.3014).

Committee to Elect Ron Carey (through Ronald Carey): 3 bumper stickers, 2 buttons, 2 brochures, and a press kit, all from Mr. Carey's election campaign for president of the International Brotherhood of Teamsters, 1991 (1990.0190).

Elma Grace Hanika Cook: banjo-ukulele of light and dark veneered woods, ca. 1930 (1989.0565).

Irma and Thomas D. Cook: manual trolling motor made by Man-U-Troll Motors Incorporated, 1960-65 (1990.0073).

Katherine Cramer: 5 linens of the 18th or 19th century (1990.0239).

Crane Company (through George H. Broomfield): Harrison boiler section, ca. 1876 (1990.0137).

Flora Crater: 2 petitions to the U.S. Senate to vote for the Equal Rights Amendment (1990.0133).

Margaret Craver: 4 silver-marking tools, 4 marked samples, 3 WW II invalid bracelet-marking tools, and a sterling silver presentation spoon given to Mrs. Craver in 1929 (1989.0576).

Ambassador and Mrs. James H. R. Cromwell: arithstyle adding machine with case and a pamphlet of instructions (1983.0170).

D. W. Crow: gold-plated bronze Baylor University Founders medal designed by Mr. Crow, 1987 (1989.0633).

Government of Cuba: 29 stamps and 8 first day covers of Cuba (1988.0242).

Lawrence E. Curtiss, Basil I. Hirschowitz, M.D., and Mary Jo B. Peters in memory of C. Wilbur Peters: 3 fiberoptic gastroscopes including the prototype made in 1957 and 2 commercial prototypes made in 1960 and 1963 (1989.0568).

Government of the Republic of Cyprus, Ministry of Communications and Works, Department of Postal Services (through G. Antoniou): 6 stamps of the Republic of Cyprus (1988.0266).

Clarence and Dorothy M. Damon: family record sampler made by Mary Ingersoll at age 9 in 1830 (1990.0146).

H. R. Dangler: WW I U.S. Navy canvas seabag (1990.0213).

John and Nancy W. Davis: 33 Southeast Asian silver coins, 13th-18th centuries (1990.0003).

Wilda Davis: paper booklet titled Rudolf the Red-Nosed Reindeer by Robert L. May, 1939 (1989.0707).

Mildred C. DeMedici: photomechanical panorama print of the Alexandria, Virginia Shipyards dated February 27, 1919 (1990.0257).

Arthur E. Denu: patent model for propelling vessels by Jacob Eckhardt, patented June 20, 1876 (1990.0114).

Theodore M. DeVit, Jr. in honor of Peter F. DeVit: 9 award and club pins, 6 tools, a pocket knife, pen, diploma, calling card, and an "E" award for civilian contributions during WW II (1989.0078).

Colin and William D. S. Dickson in memory of Eleanor Shaler Dickson: 2 woman's dresses designed by Elizabeth Hawes, 1932-36 (1990.0031).

Barbara Dickstein: 2 pairs of woman's shoes, a dress, skirt, and a blouse, 1970-85 (1989.0626).

Joseph E. Dinardo: U.S. silver medal commemorating banking and world trade, 1984 (1989.0532).

Alfred P. Dohm: 13 documents and work samples, a pantograph, camera obscura, engraving machine, tool box with tools, and a photograph from Dohm Lithographic Company of New York City, 1885-1913 (1989.0558).

Dr. Duilio Donati: bronze Italian medal commemorating sculptor Henry Moore designed by Giannantonio Bucci, 1986 (1988.0769).

Samuel J. Dornsife: 13 drawings of a water-powered woodworking mill by Joel Haag and a set of drafting instruments used by Mr. Haag about 1865 (1990.0070).

Richard E. Drake: banner, "Fighting Against Homelessness" (1989.0629).

James Christopher Draper and John William Christopher Draper: 914 photographs and photographic apparatus (304826).

Phyllis B. Droppa: 4 compacts, 4 hair combs, a glove case, and a necklace, 1920-45 (1989.0446); lucite compact, 1943 (1989.0462); lucite hand mirror frame (1989.3104); comb, brush, nail file, and plaque all made with lucite (1990.0016).

Phillippe F. duChateau: deck of 36 "Rabbinical World" playing cards with instructions and a box, 1988 (1989.0645).

Arthur A. Duke, Jr. and Judith A. Duke in memory of Lucille K. Duke: 65 pieces of woman's costume jewelry, a pair of man's cufflinks, and an original box, 1930 to the 1970s (1989.0605).

Dunn Edge Tool Manufacturing Co.: grass and corn hook (1990.0086).

Mrs. August Dvorak: International Commercial Schools Contest trophy given to Dr. August Dvorak for proficiency in teaching, 1936, and the Stowell Trophy inscribed with the names of winners from 1936 to 1940 (1988.0403).

Stephen Dweck: 6 pairs of earrings, 4 necklaces, and 2 gift boxes all designed by Mr. Dweck, 1983-90 (1990.0214).

Adelaide S. Earle: patchwork crazy quilt piano cover, 1880-90 (1990.0092).

Elizabeth S. Eaton: 3 molded earthenware figures depicting St. Luke, St. John, and Christ, made in Staffordshire, England, 1840-70 (1989.0618).

Rachel G. Edelson and Benjie Lasseau: "A" clarinet used by Benny Goodman, a double clarinet case with accessories, wooden music stand, drawing of Benny Goodman by Bouchet, and a drawing of his music studio by Benjie Goodman Lasseau (1990.0058).

Carolyn H. Edwards (through Daniel S. Hall and Robert N. Haskell): set of logarithmic scales, set of parallel rules, and a beam compass (296611).

Capt. Frederick A. Edwards, Sr., USN (Ret.): man's straw panama hat, 1920 (1989.0468).

Albert S. Eggerton, Jr.: 2 ticket punches used on the Southern Railways' Murphy Branch about 1910 (1990.0119).

Robert A. Elder, Jr.: 13 groups of archaeological glass, ceramic, and metal fragments from the Amelung glass factory site in Frederick, Maryland (1989.0024).

Harold W. Ellis: 16 comic books (1989.0089).

Scott A. Ellsworth: button of the NCAA basketball "Final Four" competition (1990.0284).

Mary-West Ensor: 2 packages of Kleenex cold cream remover, ca. 1920 (1990.0244).

ETL Testing Laboratories, Inc. (through James R. Williams): 300 photographs of Thomas Alva Edison in his later years (1988.3072).

D. Everhart II: 4 U.S. medals designed by Mr. Everhart, 1982-85 (1989.0528).

Joseph T. Fajans: German medal commemorating the Peace of Teschen, 1779, and a Belgian medal commemorating the Universal Exposition at Brussels, 1958 (1989.0527).

Harold Falik and Saul Knazick: 316 tuning forks of the 18th to the late 19th century, some of which were used in establishing international pitch in 1891 (1989.0306).

Government of the Faroe Islands, The Faroese Postal Service, Philatelic Office: 30 stamps and 2 first day covers of the Faroe Islands (1988.0267).

Andreas Feininger: 115 photographs by Mr. Feininger (1990.0160).

Robert N. Ferrell: 859 political buttons, ribbons, and badges from election campaigns, 1789-1972 (1986.1040).

Walter Feuer: Norge Rollator rotary refrigeration compressor, ca. 1935 (1989.0617).

Jerene W. H. Fiechter: 2 woman's nightgowns and a slip, all 1920s (1989.0469).

William P. Field: pair of man's shoulder pads made in 1989 in the style of the 1940s and a pair of man's shoulder pads of the 1980s (1989.0514).

Portia M. Filbert: 173 pieces of ceramics, glass, and tools made and used by Edwin Bennett, Edwin Huston Bennett, and Edwin Bennett Filbert, 1846-1965 (1986.0446); Bennett Pottery Company records, 1844-1981 (1986.3092).

Lewis J. Fisher: "peanut" radio tube (1989.0205).

Helen K. and Robert P. Fondes: "Hearthside" doily stretcher made by Sears, Roebuck and Company, ca. 1951 (1989.0492).

Helen K. and Robert P. Fondes in memory of Tabitha Parker Fondes and Laura Catherine Farlow Parker: overshot coverlet in Snail's Trail pattern hand woven by Laura Catherine Farlow Parker in the 19th century and a 15-piece quilt pattern set of 1932 (1989.0609).

Donald W. Foote in memory of Elizabeth B. Foote: 19 pieces of clothing and accessories used by Elizabeth B. Foote, 1940-80 (1989.0121).

Grace Fouche: 8 Lustro'Ware plastic canisters and shakers, 1950s (1990.0177); 2 Tupperware covered bowls and a Tupperware decanter, 1950s (1990.3055).

Harriet L. Freeman: ribbon expressing support for WW I veterans and their widows and children, ca. 1932 (1990.0201).

Blanche F. Freier: girl's peach silk slip, ca. 1922 (1989.0467).

Bob Freimark: 71 serigraphs, proofs, and drawings from the series The Fifty States by Mr. Freimark, 1960-68 (1990.0130).

Leslie M. Freudenheim: woman's black suede hat designed by Rudi Gernreich, 1966-71 (1990.0074).

Helen-Marie Fruth: 2 sets of drawing instruments (1990.0115); Simplex electric toaster, ca. 1910 (1990.0176).

Elizabeth C. and George Garfield: 3 volumes of photographic and textual analysis, 2 videotape cassettes, an appraisal booklet, and a patent history booklet, all related to the Garfield medical collection (1988.3171).

Garfinckel's: 2 mannequins, ca. 1975 (1989.0726).

Joseph H. Gaultney, Gregory R. Hays, Fred M. Valerino, Jr., Frederick M. Valerino, Sr., James Valerino, Cathy Schaefer, and Dennis Sheehan: New York mail transport carrier and a brass over-delivery terminal with receiver basket (1989.0160); 4 trade catalogs, a book, and a job proposal, 1916-52 (1989.3029).

Ida Geary: 5 nature prints, 3 books, a leaflet, and a pamphlet all by Mrs. Geary and an issue of Audubon with an article by Mrs. Geary about nature printing (1990.0067).

Roland C. Geist: 6 bicycle club patches (1989.0484).

Elizabeth and Dr. Murray Geller: Cornell nit comb (1989.0752).

General Instrument Corporation (through William H. Skelley): American Totalisator electromechanical adding machine and instruction pamphlet (1990.0008).

General Motors Corporation (through Robert C. Stempel): GM Sunracer solar-powered automobile, 1987 (1989.0599).

Helen N. Gerner: 3 medals awarded to Remington Kellogg, Assistant Secretary of the Smithsonian Institution, 1958-1962 (1989.0523).

Gordon D. Gibson: photoelectric graph comparator with camera and 7 sets of related documentation, films and parts (1987.0694).

Clarence J. Girard (through Claire Evelyn Peterson): topographical map of New York City of 1800 compiled by Louis A. Risse in 1900 (1990.3021).

Jerry L. Girocco: 2 admission tickets for the 1932 Republican National Convention (1990.0091).

Elizabeth W. Glascock: 2 needle lace lamp shades and 2 ribbon work lamp shades (1989.0479).

David Gold: 78 paper and pencil psychological tests and related materials, 1920-47 (1989.0710).

George Gomes: 21 film reels and 4 videotape cassettes of Alka-Seltzer advertisements (1989.3099).

Edwin M. Good: harmonica holder patented in 1967 (1989.0379).

Stuart L. Goosman: German Walther pistol with Swastika-stamped leather holster (1990.0105).

Mr. and Mrs. Kenneth A. Gosney: clear pressed glass pitcher, 1880-99 (1987.0672).

Anne Kondrup Gray (through James Bremer and Henry H. Glassie): Meissen porcelain plate decorated with reserve paintings and a turquoise ground, ca. 1745 (1989.0437).

Margaret Grimes in memory of Mavis Warner Van Peenen: woman's silk jacket, 1905-10, cotton sunbonnet, 1930s, and a silver fox neckpiece, 1938-45 (1990.0093).

Janet A. Haas: Tangee natural-colored lipstick, 1955-70 (1989.0459).

Nancy A. Hacker: black celluloid doll made by Rheinische Gummi Celluloid Fabric of Bavaria, Germany, 1890-1910 (1989.0513).

George Hanover: 2 Quasar satellite remote control devices and a Quasar "works in a drawer" circuit board (1989.0026).

Michael R. Harris: 5 anti-Vietnam war posters (1989.0511); in memory of Everett Jackson: 57 tubes and cans of dental products manufactured in the U.S. with labels in English, Greek, French, German, Spanish, and Russian, 1910-80 (1988.0717).

Marion B. Harrison: man's black top hat, 1920s (1989.0586).

Haverford College, The Library (through Michael S. Freeman): set of 13 books illustrating the works of Shakespeare used in the library of Benjamin B. Comegys, 19th century (1989.0646).

William P. Haynes: Ditto D10 duplicating machine with correspondence and a box of masters, 1950s (1988.0377).

Raymond J. Hebert: 79 U.S. and foreign medals, tokens, and badges (1989.0028); 78 silver fractional ancient Greek coins, 16 coins of India, and 2 devotional medals of India (1990.0002).

S. Heinze: cover carried on the Bicentennial Packhorse Mail Route Reenactment in Australia held in September 1988 (1988.0697).

Edward L. Heller: telecommunications device for the deaf (TDD) (1990.0057).

Carolina Herrera, Ltd. (through Carolina Herrera): woman's black velvet motorcycle jacket designed as a tribute to Robert Mapplethorpe, 1989 (1989.0729).

Milton C. Heuston: slumber piece or furniture cover of pieced hexagonal blocks surrounding an embroidered wreath of flowers made by Harriet Fry Hockaday, 1875-80 (1989.0731).

Richard Hofmeister: harmonica in the key of G made by the M. Hohner Company of Germany (1990.0102).

Catherine F. Hoopes: 24 surgical and diagnostic instruments, 1940-59 (1981.0957).

Reginald P. Horky: woman's gold and diamond ring with a removable top which can be worn as a pendant, made by Mr. Horky in 1986 (1989.0714).

Elton L. Howe: "Chronomica" harmonica made by the Hohner Co. of Germany in its original case and wrappings (1989.0669); brass peace symbol belt buckle (1989.0673); 2 toy space capsules and a set of ping-pong balls (1989.0680); woman's necklace, ring, pendant, and pair of earrings, 1910-50, and a unisex peace symbol buckle, 1966-74 (1989.0682); Chinese abacus with instruction pamphlet and a Produx adder (1989.0709); War Department technical manual for shop mathematics, 1945, trigonometry tablepamphlet, 1969, and a metric system pamphlet, 1978 (1989.3123); celestial globe and moon globe both made by Replogle Globes, Inc., 1969-70 (1990.0015).

Richard H. Howland: walnut side chair with needlework upholstery, 1860s (1989.0592).

Ivan E. Hoyt: 2 Pennsylvania German hex signs handpainted by Mr. Hoyt (1989.0640).

Indiana State University, Department of Physics (through Mark Branham): Davis and Kidder patent Magneto-electric machine for nervous diseases (1990.0125).

Elizabeth Wright Ingraham: "Wright Blocks" construction toy patented in 1933 and copyrighted and manufactured in 1949 by John Lloyd Wright (1989.0493).

Joseph Hey Inman: Champion cherry pitter and juicer made by the New Standard Corporation of Mt. Joy, Pennsylvania, ca. 1900 (1990.0218).

Intel Corporation, Strategic Communications (through Howard High): 4 wafers, 3 microprocessors, 2 integrated circuits, and 2 die sets (1989.0307).

Interior Resources (through Sandra N. Price): Eclipse examination gown patented by Sandra N. Price, wooden model, and a miniature gown (1990.0319).

Government of the State of Israel, Ministry of Communications, Philatelic Services: 7 first day covers of Israel (1988.0100); 8 first day covers of Israel (1988.0463).

Jenivie L. Jack: 19th-century silk neckerchief (1990.0098).

John L. Jacobs: 5 photographic postcards (1990.0100); 16 Valentine cards and a birthday card (1990.0103); political pamphlet and newspaper (1990.0110); 9 issues of The Junior Review, September 9 - November 4, 1941 (1990.0141).

Eleanore F. Jaeger: "Homestead in Winter" hooked rug made by Agnes Gellner Wermuth of Geneva, Illinois, 1953 (1989.0561).

Robert S. Jamieson: hand-made Afro-American banjo, ca. 1850 (1990.0164).

Virginia S. Jenkins: photograph of "The Reed Cutters" by Peter Henry Emerson (1989.0564).

Lucille G. and Robert G. Jensen in memory of Glenn W. Jensen: "Amos 'n Andy" toy car (1989.0510).

Bettina and Hubert Jessell: tooth restoration kit, 1930-49 (1989.0649).

Paul Johnes: "Comet" harmonica designed by John Vassos and made by the Hohner Company of Germany, ca. 1953 (1989.0668); 13 pieces of flatware and paring knives, 5 silver-plated coffee and tea service pieces and a silver-plated bowl all designed by John Vassos in the 1930s and a modern plastics award presented to Mr. Vassos in 1939 (1989.0700); Remington Sportsman '48 shotgun (1989.0747).

William R. Johnson: Korona IV camera with 2 plate holders, a black cloth, set of 6 lenses, and a leather case (1981.0192).

Merton W. Jones: 17 color photographic plates produced by the Paget process and the Lumiere-Jougla process, 1920s (1989.0226).

R. W. Julian: 8 Iron Horse Festival tokens from Indiana, 1982-89, 2 National Bank of Logansport, Indiana tokens, 1976, and a bronze medal satirizing U.S. defense policy, 1981 (1989.0535).

Karen Kaiser: photograph of Russel Kaiser in the Lamson cost accounting department, 1930 (1989.0746).

Anne L. Kallal: 2 albums with 438 photographs, 11 mounted and framed photographs, and a school scrapbook (1990.0243).

Golda Kaufman: 2 pressed glass curtain tie backs, 1840-60 (1988.0548).

Samual Kavruck: 172 psychological tests, guides, and pamphlets, 1916-66 (1990.0034).

Sara L. Kearns: sword with scabbard, belt, and sword knot earned by Michael Kearns upon his graduation from the U.S. Naval Academy in 1924 (1988.0299).

Mary Keyser: silver thimble with an 1893 patented design and a pewter thimble given to attendants of the 1980 Thimble Collectors International Convention (1982.0428).

Rachel Kidwell: polychrome plastic McDonald's stand with accessories made for use with a Barbie doll (1990.0090).

Donalda D. King: woman's black velvet dress, 1930-38 (1990.0043).

Frances Hall King: 37 pieces of man's, woman's, and child's clothing and accessories worn by Mrs. King and members of her family from the late 19th to the mid-20th century (1989.0299); 2 candle ornaments made by the Hanover League of Arts and Crafts in New Hampshire, 1950s (1989.0690); 3 fabric flower ornaments, 1920-50, and a pair of silk stockings, 1910-40 (1989.3070).

Frank E. Klapthor: 3 man's formal white bow ties, 1910-45 (1990.0035).

Jean M. Knight: pocket surgical instrument case made by George Tiemann & Company of New York (1990.0194).

Andrew P. Kusic: 127 WW I prisoner of war covers from Switzerland, Russia, Hungary, West Germany, and Great Britain (1987.0877); 64 stamps, 11 covers, 9 cuts, 4 postcards, and 4 cinderellas of U.S. private local posts and independent carriers, mid-19th century (1990.0023).

Roz Kot: denim vest-jacket marked "Hell's Angels, Frisco" worn by "Hairy Henry" in the 1960s (1989.0539).

Norman P. Krauter: pair of pliers made by Krauter & Company of Newark, New Jersey (1988.0514).

J. Krammer: 5 books, 2 videotape cassettes, 2 computer software packages, 2 posters, 2 newspaper clippings, and 2 advertisements (1988.3052).

Rita Krasno: pillow top embroidered by Celia Krasno in the 1930s (1989.0630).

Krazy Time Company (through Richard Ongstad): "Quayle Time" watch with cartoon figure of Vice President Dan Quayle, 1989 (1989.0422).

William K. Krutz: 5 books and 3 pamphlets concerning the RCA Spectra 70 computer (1987.3077).

Labor Institute of Public Affairs (through William H. Wagner): 2 videotape cassettes of the "Union Yes" commercial with Lech Walesa, 1989 (1990.0041).

Cameron J. LaClair, Jr. and Mary T. LaClair: woman's silver compact made by Dunhill, 1928 (1989.0713).

Thomas V. Lange: wooden fragment of "Franklin's Press" in a bottle, a souvenir of the 1893 Chicago Exposition (1990.0127).

Peter Larsen: 6 models showing development of the Tape-n-Line combination carpentry tool invented by Mr. Larsen, 1984 (1989.0638).

E. G. Larson: cotton picking sack (1989.0425).

Joseph R. Lasser: 50 sheets of Colonial North Carolina paper money with 3 bills on each sheet, 1771 (1989.0696).

Mrs. Frederick C. Lawrence: reclining mahogany armchair with upholstered seat and back possibly made by William Hancock of Boston, ca. 1830 (1990.0219).

Gary Leder: 4 glass bottles embossed for use by the U.S. Navy, 1879-1900, found in Sitka Channel, Alaska (1989.0623).

James R. Lee: Pickett electronic slide rule in case (1990.0154).

Barbara Lewis Lehmann: Ball "Perfect Mason" jar (1989.0675).

C. Merrill Leister, M.D.: 8 components of a General Electric oil furnace of 1941 (1990.0179).

Duncan Egger Lennon: 90 badges and ribbons, 18 buttons and pins, and 2 dance cards received by John B. Lennon when attending labor union conventions, 1886-1919 (1989.0396); 24 labor union meeting badges, 1893-1912 (1989.3063).

Michael Lenzi: "Venus" exercise machine, ca. 1927 (1988.0780).

Hope Anthony Levy: fabric catalogue of staple gingham and turkey reds, 1912, and a stretcher-type embroidery frame, late 19th to early 20th century (1989.0285); wooden lucet (1990.0204).

Olgierd Lindan, M.D., Ph.D.: Electreat electrotherapeutic device (1990.0208).

Benjamin S. Loeb: 240 used stamps making up a complete reconstructed sheet of Great Britain Number 1 dated May 6, 1840 (1987.0937).

C. O. Lonseth: diary of Betty Maple Lonseth when a school girl, 1929-32 (1989.0589).

Murray B. Loss: 2 photographs of the Dalton gang, a photograph of John Kohren, and a photograph of native Americans (1989.3066).

Robert H. Loud Ford (through Robert E. Swender): 2 license plate frames lettered "Robert H. Loud Ford" (1989.0612).

Joanna Ludwig: 7 nautical prints by Thomas Hoyne (1989.0616).

Marion C. Mack and Phyllis C. Reeve: woman's tan silk calash, 1830-50, and a dark blue velvet overdress, 1880s (1989.0386).

Sue McCone MacMillan: woman's black straw hat with floral decoration, 1945-49 (1990.0044).

Rick M. Madrid: work shirt, trousers, identification badge, and a hat with 18 pins attached, all worn by Mr. Madrid while working for New United Motors Manufacturing, Inc. (1989.0402).

Christine M. and Christopher M. Magee: pair of woman's sandals, pair of earrings, and a headband, 1968-72 (1990.0061).

Rose Maione: phonograph record, "I Want a Wife Like Alice Kramden" (1989.0372).

David and Thelma Rathner Mann: 2 pinfire revolvers and a set of cartridges (1989.0662).

Marimekko Oy (through Olli Lemola): 14 fabric samples of Marimekko Oy of Helsinki, Finland, 1987-88 (1990.0055).

Robert L. Marx: 4 offset lithograph books about trees, leaves, and plants containing work by David S. Marx (1989.0560).

Prof. O. T. Mason: 5 portrait daguerreotypes (1989.0550).

Raymond Mathieson: WW II antiaircraft range indicator made by the A. C. Gilbert Company of New Haven, Connecticut (1990.0303).

Karl F. Mautner: Petzold & Kloos field camera with 3 plate holders and an E. Suter lens (1989.0353).

Joan McCallister: 3 WW II ration coupon books (1988.0792).

Charles R. McClay, Sr.: pamphlet titled "Washington Base Ball Club Official Score Card, 1924" (1989.0342).

Prof. Robert A. McConnell: 2 punch cards, a punch card gauge, and a card punch with stylus and template (1990.0113).

William R. B. McCullough: mandolite made by H. A. Weymann & Son of Philadelphia, ca. 1925 (1989.0063).

Jean McKibbin: woman's black seal fur coat, 1941-45 (1989.0463).

Medallic Art Company (through Donald A. Schwartz): 2 plaster casts and a gold medal commemorating the Presidential Inauguration of George Bush in 1989 (1989.0525).

Frances G. Meltzer: 2 diplomas, an autograph album, class photograph, yearbook, award certificate, and a graduation program (1990.0283).

Parker Melvin: 11 clay pipe bowls from Point Pleasant, Ohio (1979.0352).

Eleanor P. Merrick: handcarved wooden pitch pipe with wood and ivory inlay made in 1774 (1989.0691).

Frederick M. and James Robert Messick: 2 cornets in original cases used by Frances Messick (1990.0290).

The University of Michigan Medical School, Department of Anatomy and Cell Biology (through Bruce M. Carlson and Donald K. MacCallum): C. A. & H. Spencer microscope (1990.0183).

Miles Laboratories Incorporated (through Donald N. Yates): 4 videotape cassettes about Miles laboratories and 2 videotape cassettes of Alka-Seltzer commercials (1989.3101).

Mildred F. Milligan: 6 glass water goblets in the "Pavonia" pattern made by Ripley & Company of Pittsburgh, Pennsylvania, 1880-99 (1987.0659).

Claire F. Minomi: Ritter dental operating unit including light, handpiece connections, air, water, and a tray to hold instruments, ca. 1920 (1986.0453).

Karen Mittelman: stereographic view of the east gate of the White House (1990.0225).

Government of the Principality of Monaco, Postes et Telecommunications, Office des Emissions de Timbres-Poste: 28 stamps and 7 souvenir sheets of Monaco (1988.0097); 47 stamps and 4 souvenir sheets of Monaco (1988.0486).

William L. Monical: banjo-mandolin made by the Bacon Company of Groton, Connecticut about 1920 (1989.0679).

J. Tom Morgan, Jr.: poster of Emmett Kelly as a clown (1989.0685).

Aaron Morse: homeopathic drug chest of the 1880s and 49 pharmaceutical products and bottles used by Kiehl's Pharmacy of New York City (1981.0589); 6 boxes of records of Kiehl's Pharmacy, a set of 56 Pharmacy labels, advertisements, and envelopes, and a "Kiehl's Musk" poster (1990.3040).

Carlton E. Morse: 2 photographs, 2 booklets, 2 awards, a Royal manual typewriter, birthday card, and a plate, all related to Mr. Morse's career writing scripts for the radio and television program "One Man's Family," 1940s and 1950s (1989.0174).

Mottahedeh and Company (through Mildred R. Mottahedeh): 4 pieces of 19th-century majolica made by George Jones of the Trent Pottery in Staffordshire, England (1989.0407).

Richard S. Muller: 2 chips containing micromotors (1990.0270).

Muppets, Inc. (through David V. B. Britt): "Oscar the Grouch" puppet in his trash can (1989.0540).

Sara Jane Demeritt Murphy: 5 letters denouncing the Masons and a document relating to retailers of liquor, 1820s and 1830s (1989.0604).

Mrs. John H. Murray: 2 plates, a teapot with cover, food mold, lidded hen dish, and a bowl with acorn motif (1988.0258); 3 double sets of playing cards, ca. 1930 (1989.0461); early 19th-century looking glass, tin-plated tray, and a "Martha Washington" sewing table of the 1920s (1990.0075); coffeemaker made by Chemex Corporation of New York, post-1941 (1990.3026).

Susan H. Myers: 112 stereocards, 5 postcards, and 2 photographs depicting ceramic and glass manufacturing activities (1987.0064).

Edward M. Nagel: Hispano-Moresque astrolabe, 1212-36, Italian solar clock-gnomon ascribed to Stefan Bonsignori, 16th century, Indian bronze celestial globe made in Lahore in 1604, Indian brass equatorial ring, 17th-18th century, and an Indian astrolabe, 17th-18th century (323621).

Arthur L. and Mary E. Nash: 5 desk accessories made by Louis C. Tiffany Furnaces in the 1920s and a pen knife made by the Tiffany Studios about 1900 (1988.0752); 10 glass items made by the A. Douglas Nash Corporation and 9 glass items made by Louis C. Tiffany Furnaces, both of Corona, New York (1988.0753); mold blown clear glass bud vase made by the A. Douglas Nash Corporation of Corona, New York, 1928-31 (1989.0201).

National Trust for Historic Preservation (through J. Jackson Walter): 2 Sandwich glass apothecary jars and a calibrated pharmaceutical measuring glass (1990.0309).

Government of the Netherlands, PTT Centrale Directie: 11 stamps of the Netherlands (1988.0184); (through A. W. van Ommeren): 7 stamps, a postal card, miniature sheet, and a souvenir sheet of the Netherlands (1988.0462).

New York Power Authority (through Leona Johnpoll): pencil commemorating New York State's ratification of U.S. Constitution and a button commemorating George Washington's Presidential Inauguration (1989.0322).

New York University (through Judge Evans V. Brewster and S. Andrew Schaffer): 654 tall case clocks, wall clocks, table clocks, bracket clocks, watches, and watch movements of the James Arthur Collection of Clocks and Watches (1984.0416).

Government of New Zealand, Post Office Philatelic Bureau (through B. E. Umuroa and G. W. Warner): 17 stamps and 2 miniature sheets of New Zealand (1988.0099); 35 stamps and a souvenir sheet of New Zealand (1988.0437).

Dominik Nicol: silver U.S. medal commemorating the 300th anniversary of Prince Constantin Brancoveanu's ascension to the throne of Wallachia, 1988 (1989.0524).

Government of Niue, Niue Post Office, Philatelic Bureau: 3 stamps, a first day cover, and a souvenir sheet of Niue (1988.0151).

George A. Norton: blue translucent glass bell paperweight advertising the Bell System, pre-1930 (1989.0370); WRICO lettering set with instructions and original purchase receipts (1989.0572); Shirley Temple mug and an ashtray inscribed "A Century of Progress, Chicago 1934" (1989.0727); Minolta Autopak 500 camera in its original box (1990.0307).

Government of Norway, General Directorate of Posts: 10 stamps and 5 first day covers of Norway (1988.0153); 7 stamps, 5 first day covers, 2 souvenir sheets, and a postal card of Norway (1988.0450).

Norwich Eaton Pharmaceuticals, Incorporated (through H. Tecklenberg): 45 pharmaceutical products (1984.0708); 139 pharmaceuticals, patent medicines, and related products (1986.0198); 45 duplicate pharmaceutical products (1986.3042).

Noxell Corporation (through Carroll A. Bodie): 86 cosmetic items and a computer of the Clarion and Cover Girl make-up lines of Noxell Corporation, 1966-90 (1990.0193).

Jennifer M. Oka: aluminum cooking pot with lid and glass insert made by Club Productions Company of Cleveland, Ohio, ca. 1953 (1989.0491).

Lt. Col. Helen G. O'Neill, USMC (Ret.): matching brilliant-cut glass electric lamp and vase possibly made by Giometti Brothers of Corning, New York, ca. 1910 (1987.0596).

Oregon Military Museum (through Terrill M. Aitken): green jungle flashlight (1989.0441).

Catherine B. Orne: 2 British and 1 U.S. geological award medals presented to Norman Levi Bowen from 1931 to 1950 (1989.0034); gold F. V. Hayden Medal of the Philadelphia Academy of Natural Sciences awarded to Norman Levi Bowen in 1953 (1990.0153).

Craig A. Orr: U.S.-made mine detector set (1989.0664).

Eugene Ostroff: silver print by Maria von Matthiessen and a photomechanical postcard (1990.0216).

Panamacy Inc. DBA, Rare and Beautiful Things (through Nadja Maril) in memory of Cyril J. Patrick: electric floor lamp with silk shade, 1920s (1990.0234).

Peter W. and Timothy R. Patout: laboratory scale and dipper used in sugar refining (1989.0424).

Nat Pendleton: wire rim eyeglasses, 1968-72, and a plastic hair pick with metal tines, 1974 (1989.0620).

Government of Penrhyn Island, Post Office Penrhyn: 12 stamps, 3 souvenir sheets, and 3 first day covers of Penrhyn (1988.0573).

Pepsi-Cola Company (through Rebecca Madeira): videotape cassette of the "Pepsi Generation 20th Birthday" advertisement (1990.3005).

Katherine Wicks Perry in memory of Arthur C. Perry (through John H. Quinn, Jr.): 43 ceramic and 30 glass objects (1988.0014).

Mendel Peterson: molded stoneware pipe bowl with ribbed decoration, 1820-1900 (1982.0534).

Patricia D. and Vincent S. Pettinato in memory of John and Elsa Swanton: cornet and a pocket cornet, both probably European of 1880-1900 (1990.0322).

Phillip Morris Incorporated (through Mary A. Taylor): 1,466 slides of Marlboro print advertisements, 1927-86, and 13 videotape cassettes of Marlboro television commercials, 1955-72 (1989.3098).

Lt. Col. G. R. Phillips, USMC (Ret.): medallion of Pope Pius XI and a pair of eyeglasses worn by His Holyness made by optician George P. Phillips, 1925-27 (1989.0570); photograph of Pope Pius XI with Papal Blessing, framed letter from the Vatican, and a group of 2 letter fragments from Mother Superior of the Holy Family of Nazareth, all given to optician George P. Phillips, 1925-27 (1989.3102).

PhoneMate (through S. Yamaura): 4 telephone answering machine systems (1989.0371).

Capt. R. Pineau, USN (Ret.): daybook of the Orchard Iron Works in Pottsville, Pennsylvania kept by John L. Pott from July 6, 1861 to June 1, 1863 (1990.0178).

Dian Post: cigar box label (1979.3057).

Robert C. Post: cast aluminum-alloy road sign frame from Leola, Pennsylvania reading "Monterey Mennonite Church, 1/3 mile" made by Jacob Brubaker in 1950 (1989.0639).

Pratt-Read Corporation (through Charles A. Ruhe): elephant ivory tusk (1988.0818); 3 partial ivory combs, a complete ivory comb, and an original box, all made by S. M. Comstock and Company, 1880-1920 (1989.0147); turnpike toll gun coin ejector (1989.0148); 246 books and folders of archival records from Sohmer and Company piano manufacturer, 1872-1985 (1989.3076).

J. A. Preston Corporation (through Thomas E. Mitchell): 13 rehabilitation and therapy aids and tests (1984.0750).

J. Rudolph Prochaska: Mayfair pattern glass bowl and lid made by the Hocking Glass Company of Lancaster, Ohio 1931-37 (1989.0487).

Dr. Leon Prosky: 11 Lang-Levy glass pipettes and a wooden holder made and used by Dr. Oliver Lowry, 1960s (1989.0547).

Edna P. and Thomas R. Purnell: duck decoy carved by a German prisoner of war during WW II in Georgetown, Delaware (1989.0724).

Jane Martin Pyne in memory of Rear Admiral Schuyler Neilson Pyne: 2 pieces of girl's jewelry made from human hair, 1840-60, and a woman's pink silk taffeta fan, 1850-65 (1989.0302).

Elsie Howland Quinby in memory of Mrs. Duncan Cameron (through Woodson P. Houghton, Dr. Richard H. Howland, and Donald Lewis Wright): silk embroidered sampler dated 1802, a bookmark embroidered on perforated cardboard, and a daguerreotype of Phoebe Jane Quinby who owned the bookmark, mid-19th century (1988.0596); silver toast rack made by Andrew Ellicott Warner, 1830-60, and a child's silver bowl with plate made by Gorham Manufacturing Company, ca. 1904 (1988.0762).

Juliette K. and Leonard S. Rakow, M.D.: cut and engraved glass wine goblet made by Thomas Webb & Sons of Stourbridge, England and decorated by William Fritsche, early 20th century (1985.0917).

Julian A. Rand, Jr.: Self Winding Clock Company wall clock (1989.0613); analytical balance made by Henry Troemner of Philadelphia, ca. 1926 (1989.0614).

Paul C. Reeping: refined white earthenware covered sugarbowl and cream pitcher decorated in Washington, D.C. (1989.0406).

Jerome H. Remick: 4 Canadian storecard personal medals, 1985-88 (1989.0530).

David M. Renka: 2 bronze medals designed by Mr. Renka (1989.0632).

Barbara G. Reno: Reising semi-automatic pistol, ca. 1921 (1982.0026).

Eleanor M. Rhue: stop/turn signal from an automobile, patented by Oscar J. Simpler on December 3, 1929 (1989.0571).

Rice Studio Limited (through James B. Rice): Riceprint photograph of Abraham Lincoln taken by Moses P. Rice in 1864 and a photocopy of an acknowledgement letter from the Historical Society of Pennsylvania for a duplicate print received in 1925 (1989.0658).

Alyce G. Rideout: Leica 35mm camera, Leitz Elmar lens, Leitz filter, and a Kodachrome haze filter (1989.0357).

Bruce W. Rigby: 58 pamphlets and sheets of memorabilia of William Rudge and book designer Bruce Rogers, 1920s and 1930s (1990.0066).

Edwin K. Robinson: 2 pieces of sheet music (1989.0090); straw hat with slogan "LBJ for the USA" (1989.0593).

Franklin A. Robinson, Jr.: 16 pieces of man's and woman's clothing and accessories worn by members of Mr. Robinson's family, 1920-1978 (1989.0688).

Rock-A-Bye Baby, Incorporated (through Marie M. Shields): 11 pieces of promotional advertisements and instructions for a Rock-A-Bye Bear (1989.3028).

The Rockefeller University (through David J. Lyons): 9-piece peptide synthesizer made by Bruce Merrifield, John Stewart, and Nils Jernberg in 1966 (1988.0492); 3 glass tubes, a ring stand, and a sample of drierite used in a peptide synthesizer, 1966 (1990.3013).

J. Wm. Rosenthal, M.D.: 8 pairs of pince-nez, 5 pairs of spectacles, a scalpel, set of silver lacrimal probes, retractor, set of erysphaques, and a caliper (1990.0196); 4 instrument catalogues and an auto-plot tangent field eye chart (1990.3059).

Mark Ross: "American Alliance for Labor and Democracy" button, ca. 1917 (1989.0705).

Terry Ross: F. E. Myers back-gearred bulldozer pump, Pilot Acetylene Generator nameplate, and a Galesburg Cornice Works Iceless Refrigerator nameplate (1990.0217).

Thomas E. Ross: storecard medal for Broas Pie Bakery of New York City, 1863 (1989.0533).

Quilla Carson Roth: wooden venetian blind used in a house in Washington, D.C. since 1938 (1989.0690).

Edward Rubin: 190 field, service, and dress uniforms, accessories, and equipment of the U.S. armed forces (304606); 129 U.S. military uniform items and accessories dating from the Post-WW I era to the Vietnam War era (1986.0813).

Edward Rubin and Rubin Brothers Waste Company (through Robert L. Rubin): 819 miscellaneous U.S. military uniforms, uniform items, accessories, and equipment (1985.0611).

Edward B. Ryder: brochure, "Citizens for McGovern/Shriver," 1973-75 (1990.0200).

Jim Ryerson Productions (through Jim Ryerson): videotape cassette titled What Ramon Did about drug use and AIDS (1989.3111).

Bennyta Saben: 3-piece brown silk, linen, and damask wedding dress of 1882 (1989.0721).

Margaret Ahrens Sahlstrand: 13 samples of handmade leaf-embossed paper (1989.0578).

Dr. John O. Sands: Washington Canal lottery ticket dated 1813 and a stereograph of 2 fishermen (1989.0738).

William Sanford: collection of correspondence, memoranda, and reports of foreign technical teams in connection with the Marshall Plan, 1948-52 (1988.3157).

Margaret Sanger Center (through Peter Purdy): 84 contraceptive drugs, devices, and related materials (1982.0531).

SAS Philatelic Club: 6 first flight covers of the Scandinavian Airlines System (1988.0124); 18 first flight covers of the Scandinavian Airlines System (1988.0438).

The Schlesinger Library (through Eva Moseley): 6 "Alternate" delegate badges, 5 buttons, 3 "Founders" ribbons, a registration card, committee member badge, and a set of plain ribbons, all related to women's rights conventions of the early 20th century (1989.0567).

John T. Schmidt: Nikonos all-weather camera (1990.0080).

Sea Pen Press (through Neal Bonham and Suzanne Ferris): 16 samples of handmade papers (1989.0559).

Robert Seidell: man's 2-piece suit and a silk tie, ca. 1946 (1990.0029).

Phillip Seitz: 8088 microchip (1989.0505); 6 Olde Heurich Brewing Company advertising papers and button (1989.3027).

Frederick R. Selch: violin patented by John M. Augustus Stroh for use in gramophone recording, 1904-42 (1989.0651).

Alex Shagin: 3 medals designed by Mr. Shagin commemorating the signing of the Constitution, the 1988 Olympic Summer Games, and Christopher Columbus (1990.0150).

David H. Shayt: polyurethane tent stake mallet-puller hand tool, late 1980s (1989.0324).

Mary Dickson Shryock: infant's christening dress, 1854-55 (1989.0647).

Milton L. Shurr: 3 death certificates, ca. 1905 (1989.3069); 8 photographs of the 1939 New York World's Fair Hall of Health (1989.3112).

Esphyr Slobodkina: textile printing block developed by Mrs. Slobodkina in the 1940s with a finished scarf, unfinished sample, and a folder of samples, description of the technique, and biography (1989.0562).

Alice W. Smith: beam compass, protractor, and a slide rule with magnifier (1990.0317).

Connie S. Smith in memory of Seymour Smith: 1921 Model T Ford with "Snowbird" detachable skis used for rural mail delivery in and around Central Square, New York, 1921-32 (1990.0207).

Edith H. Smith: woman's evening purse with a watch in the catch, 1929 (1990.0288).

Mary K. Smith: woman's colonial-style dress, cap, fichu, and bag made by Mrs. Smith in preparation for the U.S. Bicentennial (1989.0667).

Verna E. Smith: electrotherapeutic device made by the Electreat Manufacturing Company of Peoria, Illinois, 1930s (1984.0828).

Susan Smulyan: 3 lidded cooking pots and a frying pan of Wear Ever aluminum cookware, 1989 (1990.0308).

Mary Katherine Seyfriet Snyder: 8 U.S. gold coins and a gold chain bracelet with 8 gold coins and a Scorpio medallet attached (1989.0261).

Marie P. Sollenberger: 31 pieces of pressed glass in the Jacob's Ladder pattern and 2 salt dishes in a Jacob's Ladder variation, late 19th to early 20th century (1988.0830).

Dr. Ralph R. Sonnenschein: Brazilian bronze medal commemorating Dr. Sonnenschein and his retirement from U.C.L.A., 1988 (1989.0264).

William F. Spengler: 20 silver coins of the Hephthalites (1988.0588).

Frances B. Spruce: Little Gem earphones and original box, ca. 1915 (1989.0538).

Caroline E. Stancliff: woman's purple and black brocaded silk and linen dress, 1860-66, and a jet necklace, 1890-1905 (1989.0579).

Stanford University School of Medicine, Department of Genetics (through Karen J. Carpenter and L. A. Herzenberg): fluorescence-activated cell sorter built by Becton-Dickinson Electronics Laboratory in 1975 (1988.0598).

E. Jeffrey Stann: Leica Model IIIC 35mm camera and a Leitz Synchronblitzer flash attachment kit (1990.0242).

William E. Stapel in honor of Jean L. Stapel and in memory of Frank B. and Verna L. Reimann: jacquard double-woven coverlet in a wreath and floral pattern (1989.0270).

Staples & Charles Ltd.: map and a print from Harper's Weekly of 1861 (1990.0132).

Star Headlight & Lantern Company, Inc. (through David W. Jacobs): 2 railroad lanterns, a Conger CL54 and a Starlight 222, 1989 (1989.0610).

Lola G. Steinhoff: hand-held hair dryer, 1942 (1989.0300).

William J. Stevens: 2 dish towels, a tablecloth, and a necktie with lithographed designs, ca. 1953 (1989.0753).

Henry R. Stiffel: 8 parking meters and a parking fine receptacle (1989.0519).

Lois Greene Stone: 5 bracelets, 2 necklaces, 2 brooches, 2 compacts, a pair of earrings, eyeglass case, belt, and a collar, all used by Mrs. Stone in the 1940s and 1950s (1989.0117); woman's gold brocade dress, black lambswool sweater with detachable mink collar, and 2 photographs of the dress and a fur collar being worn, 1950s (1989.0183); set of anatomical paper dolls, 1940s (1989.0683); woman's hatbox, 1940s (1989.0720); 2 hot dish pads made of bottle caps hand-crotcheted together before 1958 (1990.0171).

Paula M. Strain: diary kept by Paul R. Strain relating a visit to the Columbian Exposition in Chicago, 1893 (1989.3043).

Hortense H. Strauss: unfinished beaded reticule with 17 tools, spools of thread, and bunches of beads for finishing (1990.0037).

Persis Suddeth: girl's bonnet, 1929-30 (1990.0185).

Louise H. Surine in memory of Alice Josephine Breen Hirtle: beige piece of silk pongee fabric with stamped markings of the Imperial Government of Japan, 1930s (1990.0053).

John August Swanson: 14 progressive proofs and 8 stencils used to make the serigraph Ecclesiastes (1989.0686); 15 proofs, 5 drawings, and 3 aluminum printing plates used to produce the lithograph Francis of Assisi by Mr. Swanson, 1985 (1990.0237).

Government of Sweden, PFA Svenska Frimarken: 289 stamps, 24 maximum cards, 24 first day covers, and 10 presentation cards of Sweden (1988.0052).

Mrs. Ardene L. Sweet: 15 shotguns, carbines, rifles, revolvers, and pistols (1989.0716).

Dr. Hans Syz: 40 pieces of hardpaste porcelain made in Meissen, Germany in the 18th century (1989.0715).

Henry Tafoya: 82nd Airborne Division parachutist's jacket worn by Sgt. Tafoya during WW II (1990.0221).

F. DeLee Taylor: 11 woman's U. S. Air Force uniform items and insignia (1990.0032).

Texas Childrens' Hospital (through Alex R. White, Jr.): transport isolation chamber with 50 parts and related objects used by David, the "Bubble Boy" (1986.0840); 21 containers of sterilized food and water, an isolation chamber set, book about the chamber, set of supplies, box of tape, and a group of documents, all related to David, the "Bubble Boy" (1986.3148).

The Textile Museum (through Julie Link Haifley): 4 Jacquard woven silk items including 2 ribbons, a bookmark, and a picture (1987.0568).

Paul A. Thibodeaux: 2 buttons, a poster, decal, banner, pamphlet, and a newsletter from civil rights rallies in Mississippi in June 1966 (1990.0117).

Frances G. Thompson: white linen bolster cover inscribed "Polly Carpenter, 1813" (1989.0339).

Captain James Waldie Thomson, USN (Ret.): Wurlitzer electric piano with matching bench, ca. 1955 (1987.0500).

Marilee Tillstrom: package of Darn Rite mending thread, ca. 1930 (1990.0170).

Torah Personalities, Inc. (through Arthur Shugarman): 36 rabbi cards made in 1988, 75 rabbi cards made in 1989, and a rabbi card display box (1989.0644).

Walden C. Townsend: automobile jack made by Weaver corporation, 1920s (1989.0520).

Trans-Lux Corporation (through Albert Boyars): Trans-Lux sign, set of sign letters, and a mirror (1990.0124).

Tri-Boro Sportsmen Association (through Roger Bodnar): wooden barge cleat (1978.3029).

Betty M. Tubbs: woman's air raid warden uniform and 2 patches, WW II (1989.0628).

Tufts University (through A. M. Cormack, Ph.D., Sol Gittleman, and Joseph J. Lambert): prototype CAT-scanner designed by Allan M. Cormack in 1963 (1990.0140).

Embassy of Turkey (through Salih Yardimci): U.S. medal commemorating the Age of Sultan Suleyman exhibit in Chicago, Washington, and New York, 1987 (1988.0459).

Government of the Turkish Republic of Northern Cyprus, Directorate of the Department of Posts: 3 stamps and a first day cover of the Turkish Republic of Northern Cyprus (1988.0396).

John P. Turner, D.D.S. and Ruth Q. Turner: 2 paper hand fans from the Cotton Club in Harlem, New York City, ca. 1930 (1989.0436).

Twentieth Century-Fox (through Robert B. Morin): 230 objects comprising the "Swamp" set and 15 costumes and props used on the television series "M*A*S*H" (1983.0095); 252 scripts and 9 music cue sheets used on the television series "M*A*S*H" (1984.3045); 500 medically-related objects used in the operating room and other sets of the television series "M*A*S*H" (1985.0252).

Gretel M. Underwood: blue and white striped cotton dress labeled "W.P.A. Not to be Sold," 1932-40 (1989.0719).

United Mine Workers of America (through David M. Saltz): 2 videotape cassettes of union advertisements (1990.0129); Legal Department (through Joyce Hanula): camouflage green "On Strike" T-shirt (1989.0542).

United Nations Postal Administration: 1,140 stamps of the United Nations (1988.0059).

U.S. Department of Defense, Department of the Air Force, Air Force Museum (through Michael J. Ramaker): 3 gas masks, 2 helmets, 2 web belts, an overcoat, mess kit, canteen with cover and cup, goggles, barbed wire, knife, fuse, and a grenade (1977.0273); Department of the Army, Accountable Officer W23BFK: Czechoslovakian pistol, 1951 (1990.0267); Foreign Material Intelligence Group, FPBO (through CW3 George O. Brown): 2 Kalaschnikow assault rifles with bayonets and accessories and 2 Remington Wingmaster shotguns (1990.0028); Headquarters 82D Airborne Division (through Lt. Col. Robert E. Thornton): 16 battle dress uniform items and accoutrements of a 1980s paratrooper including parachutes and packs (1989.3032); National Security Agency (through Robert Looney):

- 88 components of the IBM 7302 Harvest computer system and 34 instruction and reference materials, 1962-75 (1977.0144).
- U.S. Department of Health and Human Services, National Institutes of Health (through Dr. Alan Peterkofsky): Dupont-Sorvall centrifuge used by Dr. Marshall W. Nirenberg in working with genetic coding, 1950-69 (1989.0435).
- U.S. Department of the Interior, Fish and Wildlife Service (through Norma Opgrand): uncut sheet of 120 Migratory Hunting and Conservation Stamps for 1988-89 with margins autographed by people attending the First Sheet Ceremony at the Bureau of Engraving and Printing (1988.0429); Geological Survey (through James M. Hope): Luger carbine, 1930 (1989.0663); National Park Service, Grand Canyon National Park Museum (through Richard W. Marks): 10 panorama prints and negatives, 8 photographs, and a stereograph of scenes in Colorado and Arizona (1989.0703).
- U.S. Department of Justice, U.S. Marshals Service, District of Hawaii (through Faith P. Evans and Al Patino): 2 reproduction plaque sculptures and a reproduction lithograph of The Last Supper by Salvador Dali and a certificate saying the artwork was genuinely by Dali (1990.0192).
- U.S. Department of the Treasury, U.S. Mint: 19 coins of Spain, 1474-1899, a coin of the Roman Empire of ca. 79 B.C., and a coin of Columbia, 1762 (1989.0591).
- U.S. Legislative Branch, Library of Congress, Exchange and Gift Division (through Judy C. McDermott): Ease-all metatarsal elastic support band (1986.0107).
- U.S. Postal Service, International Postal Affairs Department (through Irma Harrison and Juan B. Ianni): 240 stamps of Austria and 30 stamps and 3 souvenir sheets of South Africa (1988.0010); International Services Branch (through Juan B. Ianni): 8,379 stamps, souvenir sheets, and miniature sheets of the Universal Postal Union nations (1988.0130).
- Unknown: 2 pseudo-astrolabes (1979.0877); album with 71 photographs of Hazel J. Birdsall's family and scenes around Washington, D.C., 1920s (1989.0555); 2 woman's fans, 1860-80 (1989.0725).
- A. R. Van Doren, Jr. and M. A. Van Doren: woman's brown leather half-boot, 1845-55 (1989.0429).
- Vermont Castings, Inc. (through Duncan Syme): "Defiant" cast iron wood-burning stove designed by Duncan Syme in 1975 and made by Vermont Castings, Inc. in 1988 (1989.0615).
- Janine S. Volkmar: booklet, To Bear Witness, 1965 (1989.0744).
- Barbara L. and Leland L. Walton: 2 bumper stickers of the National Association of Retired Federal Employees (1990.0138).
- Frederick D. Wampler: 5 woman's bustles, 2 pairs of stockings, 2 capes, wedding veil, sun bonnet, apron, dress with set of matching fabric, headdress, bag, and 2 man's vests, all worn by members of Mr. Wampler's family, 1835-1905 (1989.0295).
- William B. Warden, Jr.: 2 silver karshapanas of India (1988.0614).
- The Washington Post (through Virginia Rodriguez): 5 sales racks, 2 hand-pulled wagons, and a newspaper delivery box (1990.0123).
- Judy L. Weaver: 4-piece uniform with 14 pins and an identification badge worn by Ms. Weaver while working for New United Motor Manufacturing, Inc. in Fremont, California, 1986-88 (1989.0473).
- John Weingardt: T-Shirt, "Industrial Workers of the World - International Labor Solidarity" (1990.0042).
- Barry and Fran Weissler: vest, bow tie, wig, and a cane used by Joel Grey in the 1987 tour of Cabaret (1989.0375).

Carl E. Weller: prototype model and a production model of the Weller soldering gun (1989.0643); 2 original U.S. patent papers, 2 sets of business and advertising papers, and a book (1989.3113).

Francis L. Wenger, M.D.: Egyptian bronze coin of the 3rd century B.C. (1988.0524).

Mark J. Wertheimer: clip of 5 French rifle cartridges made in Syria, 1950s (1989.0694).

Maria E. Wertz: Confederate artillery shell (1990.0269).

Wesleyan University (through Robert L. Kilpatrick, Jr.): 224 mathematical models made by L. Brill of Darmstadt, Germany in 1893, 2 curves, a plotting board, ellipsograph, and a planimeter (1985.0112).

Lynn B. and Dr. Michael H. Whalen: intact perforate pane of the 1975 Madonna Christmas Stamp (1989.0554).

Thomas Willette: box of DDT "Killer Dust" insecticide (1988.0283).

Chesley Goseyun Wilson: Apache l-string violin of agave and bow made by Mr. Wilson of Tucson, Arizona in July 1989 (1989.0653).

C. F. Wood: hand-made fighting knife used in WW II (1990.0256).

Mary Lou Frances Wooten in memory of Edna Lee Faulkner Smith: woman's make-up cape made from a fertilizer sack by Mrs. Smith (1990.0143).

Betty R. Wright in memory of Frederick John Wright: Dobro guitar with resonator of about 1939 used by Mr. Wright (1989.0660).

Helena E. Wright: union rates agreement booklet for the Livermore Falls Musician's Union in Maine, 1910 (1989.0594); costumed African-American doll marked "Plantation Inn, Savannah GA," 1920s (1989.0608).

Jane Griffin Yeingst and William H. Yeingst: 5 pieces of doll house furniture by Louis Marx, mid-1950s, and an oil-filled electric radiator made by the Shetland Company of Austria, ca. 1984 (1989.0494); plastic grater, cast iron trivet, wire pastry blender, and an ATECO pastry decorating set (1989.0681); bottle stopper made by Ekco Housewares Company of Franklin Park, Illinois, ca. 1948 (1989.3075); electric flatiron, hand-powered egg beater, aluminum pineapple cutter, and an electric percolator (1989.3116).

James Harvey Young: 74 patent and pharmaceutical medicines, 4 nutritional supplements, an electrotherapeutic device, Velvetina face powder, homeopathic headache preparation, green glass bottle, and an invalid's drinking cup (1989.0711); Hadacol Caravan Show poster and an Antikamnia tablets bookmark (1989.3125).

Robbie V. Young: tintype portrait of Emily and William McCormick (1989.0732).

NATIONAL MUSEUM OF NATURAL HISTORY

Individuals

- Dr. R. Tucker Abbott: 67 marine mollusks (350670).
Harry Abrahamson: a Tibetan Lama thanka (378678).
Dr. Robert E. Acciavatti: 2 beetles (388502).
Clarence E. Aldret: a fossil bovid radius distal portion (391578).
Dr. Barry Alpher: 5 Australian spears & a spearthrower (378672).
Reed Altman: 4 plants (388816).
Dr. Angeles Alvarino: 20+ worms (388554).
Dr. Donald M. Anderson: 110 weevils (389947).
Dr. R. S. Anderson: 2 weevils (389921, 390338).
Dr. Paula Beatriz Araujo: 13 crustaceans (380047).
Dr. Brian J. Armitage: 117 misc. insects (392130).
Dr. Paul H. Arnaud, Jr.: 3,912 flies (389918).
Dr. Eric Arnould: See also Dr. Christine Conte (370311).
Robert Aronheim: 556 butterflies (391060).
John Arthur: a fossil whale portion (388866).
Dr. Sidney Ash: a fossil plant (387736).
W. L. Ashby: a fossil vertebra (386634).
Mr. & Mrs. Wallace L. Ashby: 2 fossil vertebrates (389464).
Sallyellen M. Attfield: a bird skin (388720).
Robert Aube: portion of a fossil whale skull (389480).
George T. Austin: 6 skipper butterflies (392133).
Dr. Keiji Baba: 5+ crustaceans (380015).
Thierry Backeljau: 40 marine snails (386359).
Mr. & Mrs. J. Wayne (Aura) Baker: 7 fossil vertebrates (388859).
Dr. George E. Ball: 54 beetles (389913, 390669, 391111).

Carlos do Prado Barbosa: 8 minerals (390178, 390255, 390193); See also Mineral Fund (386192).

Pierre Bariand: 2 beryls (386195, 388665).

Mrs. Yvonne Barnette: a partial vertebrae of a fossil whale (390615).

Douglas J. Barr: 4 crustaceans (378484).

Jose Rolando Bastida-Zavala: 3 worms (386705).

Dr. Hans Bath: 21 fishes (386924, 390821).

Dr. William C. Bean: 72 fossil vertebrates (388867).

Peter Beck: 3 fossil vertebrates (385895).

Dr. Jonathan Becker: 28 fossil birds (388878).

Dr. Vitor Osmar Becker: a butterfly (391846).

Diane Bellis: 73+ fragments of fossil resin (388919).

Dr. Mohamed Bensaid: 5 fossils (387752).

Matz Berggren: 23 shrimps (388215).

Richard A. Bideaux: 2 vials of minerals (388347).

Lance T. Biechele: 2 plants (390060).

Professor Charles K. Biernbaum: 223 crustaceans (380046).

Dr. S. Bily: a beetle (387690).

Gale A. Bishop: 299+ crustaceans (385076).

Dr. James A. Blake: 1,101 worms (345346, 386717, 388526).

Mrs. Joseph M. Blumberg: 25 Eskimo art objects (364390).

Kimberly Bode: a portion of a fossil sea cow rib (389555).

Mrs. Paula W. Bohaska: a portion of a fossil stork (390556).

Mary & John Boland: a fossil seed (390547).

Dr. Robert F. Bolland: a crustacean (386548).

Constance E. Boone: 50 marine mollusks (364179).

Billy B. Boothe, Jr.: 20+ worms (324957).

Dr. L. Botosaneanu: 19 caddisflies (389910).

Japheth B. Boyce: 2 fossils (390546).
Ed Brady: an Indian police badge (378681).
Dr. Timothy J. Bralower: 2 fossils (387785).
Mrs. Twila Bratcher: 4 mollusks (383173).
Mrs. Florence N. Brewer: 1,001 minerals (384596).
Marcelo Silva Briano: 260+ crustaceans (377431).
Dr. Thomas J. Bright: 50+ worms (346707).
Dr. R. O. Brinkhurst: 15 worms (352289).
Joseph C. Britton: a worm (346728).
Dr. Robert Brooks: a wasp (390041).
Richard Brown: an Emu chick (388727).
Dr. Keith S. Brown, Jr.: 23 butterflies (391114).
Dr. Hugo Bucher: 83 fossils (389462).
Mr. & Mrs. John Buck: a ceramic bowl (373807).
Dr. Don Buden: 4 birds (385663).
George S. Bunting: 42 plants (389587).
Charles Burg: a bird skin with spread wing (388711).
Grace Burkholder: 72 ethnographic artifacts (370093).
Dr. George W. Busby: 12 butterflies (390315).
Robert Busby: 9 butterflies (390314).
Dr. Sandra J. Carlson: 41 fossils (391588).
Dr. Robert Carney: 5 worms (390366).
Mr. and Mrs. Walter Carpenter: a mollusk (383207).
Mrs. Verna C. Carter: a Haitian wooden drum (378680).
Dr. Jean-Paul Casanova: 4 worms (388564).
Dr. Joe Cavey: 21 beetles (389935).
Dr. Gilbert Challet: 482 insects (389925).

Robert B. Chamberlain: a mineral (388356).
Ralph Chapman: fossil egg shell fragments (391604).
L. A. Cheney: 3 worms (336912).
Mrs. Edie Chippeaux: a marine snail (387946).
Dr. Mikkel S. Christensen: 12 fishes (388129)
Mrs. Katherine Morgan Church: a feather headdress (364767).
Dr. Eugenie Clark: 6 worms (373087).
Howard L. Clark: 111 plants (384972).
John E. Clark: a fossil dugong vertebra (390570).
Roger Clark: 2 mollusks (387948).
Dr. J. F. Gates Clarke: 582 insects (389909).
Dr. Robert Clarke: a Sioux war bonnet (373804).
The Clayton Family: 2 fossil vertebrates (389556).
Earl and Joanne Cline: 20 fossil plants (390541).
Jeremy A. Clore: a Laos bamboo mouth-organ (364319).
Philip Clover: a marine mollusk (390514).
Ed Cohen: 4 plants (387891).
Dr. Robert G. Coleman: 136 rock samples (385386).
John W. Coles: 20+ worms (390356).
Perez H. Collins: 43 Liberian artifacts (374065).
Dr. Christine Conte: 104 ethnological artifacts (370311).
Bunnie Cook: 25+ marine mollusks (390488).
Carl Cook: 6 dragonflies (391110).
Dan Cooper: 2 fossils (386692).
Rev. Robert Correia: 2 fossil teeth (391615).
Dr. Raul Cortes: 2 flies (389794).
Kenneth Craddock: a fossil amphibian skull (387760).

Katharine Z. Creane: 3 Indonesian textiles (370094).

Mrs. Elizabeth M. Cridlin: a fossil tooth (385901); 27 fossil vertebrates (388901, 388936, 389490).

Dr. Thomas W. Cronin: 23 crustaceans (383071).

Hewitt Crosby: a Tikuna Indian life-size mask & costume (362300).

Mrs. Helen Morgan Culpepper: a Navajo chief's blanket (362303).

Dennis A. Currutt: a butterfly (390671).

Dr. Edward B. Cutler: 500+ worms (384468).

Thomas V. Dagenhart: 5 minerals (390204).

Jerrell J. Daigle: 36 damsel & dragonflies (389902, 391851).

Anne Maria Dambourg: a portion of a fossil turtle (387741).

Teresa Ruiz de Centurion: 20 butterflies (389929).

Dr. Jesus Angel de Leon Gonzalez: 107 worms (390357).

David N. De Leon L.: 39 crustaceans (385242).

Stephen Dee: a Swazi purse (370095).

Maria Luisa del Rio Mispireta: 304+ crustaceans (388140).

Dr. B. L. J. Delvinquier: 61 echinoderms (386974).

Al DeMartino: 3 mollusks (358229).

Dr. Gustavo A. S. de Melo: 2 crustaceans (378442).

Geoff F. C. Dennis: a plant (387915).

Dr. Marcos de Souza Menandro: 4 plants (389151).

James de Vere Allen: 5 Swahili cotton handkerchiefs (370644).

Dr. Deborah M. Dexter: 95 crustaceans (389814).

Al Deynzer: 2 mollusks (389395).

Dr. Hank H. Dijkstra: 28 mollusks (369494, 384063).

Dr. William A. DiMichele: 5,577 fossil plants (389524).

Dr. Peter S. Dixon: 207 plants (387854).

Dr. Klaus Dobat: 40+ freshwater mollusks (387958).

Dr. David Dockery: 2 fossils (389540).

Joanne Dombrowski: 15,000 archeological artifacts (372207).

Neal Donnelly: 20 "Hell Scrolls" & a devotional book (378682).

Robert L. Douglas, III: a fossil tooth (390619).

David Dowling: 4 shrimps (388192).

Herbert Dozier: 34 aquatic beetles (389927).

Dr. Dale Dubin: a mineral (390209).

Francis O. Dudas: 97 igneous rocks (389684).

Ross M. Duggan: 3 worms (390390).

Dr. Sidney W. Dunkle: 39 dragon & damselflies (389936, 391848).

Robert A. Eberle: a fossil bone (386651).

Mrs. Permelia Eggerton: a fossil dinosaur bone (387711).

Corinne Ehrlich: 5 crustaceans (382771).

Robert Elder: a pottery figure (366953); 2,000+ archeological artifacts (387017).

Craig Ellis: 41 varied New Guinea artifacts (374704).

Richard M. Emlet: 10+ marine mollusks (389398).

Dr. Masaki Enami: a mineral (388312).

Dr. Kazuyoshi Endo: 60 fossils (388894).

Dr. Dodge Engleman: 2,330 insects (389916, 390672).

Dr. Christer Erseus: 161 worms (386751, 388561).

Carlos Esquivel N.: 3 dragonflies (389899).

Gene D. Everson: a marine snail (384083).

Jordi Fabre: 2 minerals (388374).

Dr. Robert Faden: a worm (388558).

Lee Fairbanks: 5 terrestrial slugs (389038).

Laurel and Scott Faulkner: a basketry mask (373869).

Dr. Mark Feinglos: 3 minerals (384589, 390190).

Douglas Fenner: 2+ corals (386989).

Larry Ferraro: portion of a fossil dinosaur bone (386650).

Wayne C. Fields, Jr.: 10 freshwater snails (387954).

Dr. Kirk Fitzhugh: 992 worms (386741).

Phoebe Flory: a feather cape (361216).

George Fonger: 25 fossil vertebrates (386503).

Dr. John M. Foster: 12 crustaceans (380036).

Robert B. Frank: a ceramic vase & plate (364980).

Dr. Charles Fransen: 59 crustaceans (388186).

Richard Franz: 5 crayfishes (385030).

Si & Ann Frazier: See also Roebing Fund (386210).

H. A. Freeman: 88 butterflies (389922, 389946).

Dr. Annon Freidberg: 352 insects (389900, 390336).

Dr. David G. Frey: 90 crustaceans (378467).

Dr. Robert F. Fudali: 3 rock samples (388275).

Mr. and Mrs. Alexander S. C. Fuller: 5 enthnological artifacts (364321).

Dr. Emilio F. Garcia: 67 mollusks (365392, 367236).

Frank Garcia: a partial fossil upper jaw (390592).

Scott S. Gardner: a fossil (387769).

Ralph Garrett: a fossil tooth (388873).

Dr. Stuart Gelder: 3 worms (390389).

Andrew G. Gerberich: 15+ mollusks (384830).

Lloyd Gerhart: 3 juvenile birds (388726).

Rosemary Gianno: 45 ethnological artifacts (385313).

Lester P. Gibson: 16 weevils (389911).

Dr. Michael A. Gibson: 12 fossil corals (387706).

Dr. J. Gibson-Smith: a mollusk (383188).

Dr. Kenneth Gilchrist: 7000+ mollusks (384093).
Derham Giuliani: 300 snails (384811).
Dr. J. Glassberg: 2 butterflies (389931).
Mr. & Mrs. Leonard Glismann: 2 fossil plants (387735).
Dr. A. A. Godovikov: an iron sample (386191).
Jack Golding: 6 plants (390076).
Eric Gonzalez: 100+ crustaceans (381731).
Dr. A. E. Gordon: 6 stoneflies (389920).
Bill Gordon: a fossil fish bone (386625).
Dr. Robert Gordon: 8,045 beetles (389932, 391054).
Dr. Pamela J. W. Gore: 150 fossils (386656).
Dr. Philip Gould: a Atayal loom & 6 weaving implements (374705).
David Grabda: 8 fossil mollusks (387712).
Frederick V. Grady: 2 birds (388721); 3 fossil vertebrates (388892);
1120 invertebrate fossils (388895).
Jason R. Grant: 145 plants (390087).
Diana Spies Green: 3 Balinese paintings (373014).
Dr. George D. Grice: 10,000+ crustaceans (377398).
Richard W. Grier, Jr.: a mineral (390247).
Mr. & Mrs. Jeffrey Griffin: a wooden statue (373805).
Dr. Mark Grygier: 32 worms (388519).
Mlle Laurence D. Guidi: 8 crustaceans (388160).
Dr. Lloyd F. Gunther: 306 fossils (389548).
Dr. R. G. Gutschick: 11 fossils (389521).
Toni Hafliger: 3 plants (387918).
Dr. Wesley Halpert: 13 ethnological artifacts (364389).
Ernest and Onsby Hammons: a fragment of root mass of a fossil fern
(390545).

Yukio Hanamura: a crustacean (388139).
Dr. James A. Hanson: a navajo rug (373017).
Jerry Harasewych: 179 mollusks (344011).
Dr. J. D. Hardy: a worm (386703).
Christopher J. Harmatuk: 103 fossil vertebrates (387771).
Peter J. Harmatuk: 1,239 fossils (385154).
Dr. S. C. Harris: 139 caddisflies (389912, 398923).
Mrs. Jacquelin Hawkins: a faceted green gem (390171).
Dr. Richard W. Heard: 4 crustaceans (388156); 72 worms (390369).
Bill Heim: 215 fossil vertebrates (385903, 388931, 390520).
E. P. Henderson: 4 minerals (366600).
Derral Herbst: 2 plants (387383).
Linda Heritage: 10 fossil vertebrates (390521).
Dr. Henry A. Hesperheide: 3 insects (389924, 390316).
Jason and Lisa Hill: 2 crustaceans (391352).
Dr. Ju-shey Ho: 44 crustaceans (377403).
Dr. Wai Hoong Ho: 4 mollusks (390486).
Dr. John J. Holleman: 30 worms (296029, 296861).
Bernadette Holthuis: 90 mollusks (379947).
Dr. L. B. Holthuis: 2 crustaceans (388183).
Dr. Ralph W. Holzenthal: 4 caddisflies (389907).
Hajime Honma: 4 fossils (389465).
Vordo Honnold: 9 ethnological artifacts (364394).
Mrs. Jean Hooper: a portion of a fossil porpoise (387748).
Mr. & Mrs. Lucius H. Horiuchi: 7 ethnological artifacts (366038).
Sid Hostetter: a fossil tooth (387772).
Peter Hovingh: 200+ freshwater snails (387955).

Laura Howe: 9 fossil leaves (390567).
Robert Howell: a fossil plant (388933).
Dr. Francis M. Hueber: 7 minerals (390172); 7 fossil plants (390542).
Niel C. Hulings: 8 mollusks (389405).
Dr. Alexander D. Huryn: 12 insects (389905, 389906).
Dr. Pat Hutchings: 4 worms (386726, 386744).
Mr. & Mrs. Frank Hyne: 619 fossil vertebrates (384133).
Dr. H. B. Noel Hynes: 17,296 stoneflies (389933).
Dr. Thomas Iliffe: 253 crustaceans (383145).
Rachel Imlah: 12 mollusks (373874).
John P. Ingham: 25 crustaceans (368029).
Dr. Teruaki Ishii: a rock sample (388261); a mineral (388296).
Dr. John Ismay: 4 flies (391826).
Dr. Michael A. Ivie: 502 insects (390341, 391061).
Jeremy F. Jacobs: See also Academia Sinica, China (387287).
Dr. Sophie Jakowska: a freshwater leech (274423).
Carlos Jara S.: 2 crustaceans (389820).
Dr. C. E. Jenner: a shrimp (381704).
Dr. M. Bagge Johansen: 50 fossils (390527).
Mr. & Mrs. Walter (Nancy) John: a portion of a fossil turtle (387718).
Christopher L. Johnson: 33 gems (388693).
Ralph Johnson: 2 fossils (387720).
Thomas T. Johnson: a fossil (388886).
Dr. Donald E. Johnston: a crab (385047).
David Jones: a cast of a fossil tooth (388893).
Dr. David Jones: 325 marine mollusks (346752).
Dr. Meredith L. Jones: 500+ worms (386738).

Roxanne Jordan: 355+ crustaceans (385026).
Dr. Pieter Kat: 89 mollusks (366999).
E. Barrie Kavasch: 55 native North American artifacts (378691).
Dr. Yosuke Kawachi: a mineral (390174).
Dr. Stuart M. Kelly: 2 fossils (386647).
Jack H. Kent: 9 Indian bronze & brass mandales (368689).
Dr. Edwin J. Keppner: 14 slides of worms (384494, 386716).
Charles L. Key: 11 minerals (359366, 375916); a metallic globule (386204).
Dennis Kingery: a fossil plant (389494).
Carl Eric Kirk: 3 articles of Mexican clothing (378793).
Donald R. Kirkpatrick: 8 fossils (389554).
Dr. John A. Kochalka: 608 caddisflies (390335).
John Kolic: 8 minerals (390217).
James and Sylvia Konecny: a fossil (390543).
Mr. & Mrs. Walter Koontz: a fossil walrus bone (385810).
Dr. Peter Kranz: 19 fossils (385905).
Chris Krietsch: a topaz (386184).
Peter Kroehler: a latex peel (387715); a slab of fossil footprints
(388898).
Richard M. Kurz: a mollusk (358228).
Joe Kutis: 8 fossil dugongs (390571).
Kim Kyong: a Korean brass basin (378688).
Jorge L. Lache P.: 27+ crustaceans (336889).
Jerry Landye: 2500+ mollusks (384079).
Jeff Lane: a fossil bone (386652).
Profesor Gerald N. Lanier: 123 beetles (390342).
Michael Latz: 20 crustaceans (389822).
Dr. Lucien Laubier: 24+ worms (262098).

Robert M. Laughlin: a tortilla bag & a tunic (364364).
Leicester Le Sueur: a crustacean (366138).
Jose Leal: a mollusk (389406).
Dr. Harry G. Lee: a mollusk (370079).
Dr. Rafael Lemaitre: 82 crustaceans (381732, 381748).
William L. Lermond: 7 ethnological artifacts (372208).
Sonia Levine: a piece of Tonga bark cloth (378669).
Dr. Robert Lindsey: a mollusk (368985).
Ildefonso Linero: a worm (386731).
Dr. Louis J. Lipovsky: 77,715 misc. insects (390469).
Prof. A. A. Lise: 4 spiders (392134).
Elbert L. Little, Jr.: 74 plants (391748).
Landon Lockett: a plant (386872).
Dr. Alfred R. Loeblich, Jr.: 38 fossils (389459).
Dr. Alan Logan: 7 fossils (386700).
Charlene Long: 15 worms (386740, 388515).
Raul J. Lopez: 8 crustaceans (377420).
Jack Lowell: a quartz (388371).
Ron Lupton: a mineral (386169).
Dr. Jose Luis Luque Alejos: 16 crustaceans (381722).
Edison A. Lynn, Jr.: a Hellenistic period jug (373816).
Lydell MacLean: 2 stone effigy pipes (387019).
Dr. Andy S. Y. Mackie: 14 worms (386706).
Farai Madzimbamuto: a string hat (362989).
Dr. Jean-Michel Maes: 62 insects (390622).
Mrs. William (Catherine) Magistretti: 7 ethnological artifacts (373018).
Dr. Fe Magpayo: a worm (388530).

Edgar J. Maiz: 1,181 subfossil remains (389539).
Barry W. Mansell: 4 crustaceans (370139).
Gary Marches: 5 crustaceans (385028).
Dr. Bruce Marshall: 26 mollusks (367407).
Dr. Joel W. Martin: a crustacean (383097).
Antonio M. DeFrias Martins: 8 land snails (389391).
Edwin G. Mas: a plant (388426).
Dr. E. C. Masteller: 94 caddisflies (390772).
Bryant Mather: 17 caddisflies & 2 mayflies (390771).
Michael L. Mathis: 35 caddisflies (389915, 391847).
Dr. Garry Maurath: a fossil monk seal jaw (386658).
Michael Mazurkiewicz: 1+ mollusks (390496).
Vance McCollum: 12 fossil sharks teeth (386649); 100 fossil vertebrates
(388860).
Peter A. McCrery: 8 fossil vertebrates (389483).
Ruben McCullers: 18,145 insects & arthropods (391828).
Emory McDanal: 12 minerals (386224).
Dr. John McDermott: 4+ crustaceans (383079).
Marion McDowell: 2 crustaceans (369886).
Dr. F. Scott McEuen: 26 mollusks (384076).
Dr. Frank K. McKinney: a fossil (391614).
Dr. Patsy A. McLaughlin: 14 crustaceans (389808).
Robert B. McLaughlin: a fossil (389529).
Jimmy McNeil: 4 minerals (388353).
Peter Megaw: a mineral (390254).
Ray Meisenhalder: 12 minerals (386206, 388372).
Franco Melchiorri (deceased): 124 ethnological artifacts (372228).
Edith L. Menkart: 5 Chinese textiles (372211).

Dr. Arnold S. Menke: 624 insects (389945, 391055).
Dr. Michael A. Menzies: 4 gems (390162).
Mary Beth Mihalik: 21 crustaceans (386519).
Mrs. Gerald L. Miller: 2 pieces of bark cloth (380528).
Sheryl F. Miller: a Hopi silver belt buckle (378936).
Steven T. Miller: a fossil parrot fish dentary (390616).
Dr. William E. Miller: 4 moths (389914).
Mrs. F. P. Mitchell: 2 19th century Japanese fukusa (380502).
Dr. Tomoyuki Miura: 13 worms (386734).
Dr. Robert B. Mixon: a juvenile pinniped humerus (390564).
Jane Tully Moberg: a pair of Naga earrings (378670).
L. B. Moers: a quartz (391460).
Dr. Carolyn Moll: 15 Afghan artifacts (366839).
Dr. Robert Moolenbeek: 6 mollusks (380071).
Dr. Ellen J. Moore: 2 fossils (389517).
Evelina C. Morales: 10 crustaceans (386513).
C. Timothy Morris: 6 shrimps (383098).
Colonel William B. Mozey: 5 sets of Korean locks & keys (385305).
Dr. Katherine Muzik: 4 echinoderms (342763).
Diana K. Myers: 38 textiles and 50 dye samples (368690, 373019).
Kenji Nakamura: 100 Japanese baskets & tools (380491).
Dr. Edna Naranjo-Garcia: 7 mollusks (376763, 380072).
Dr. H. Richard Naslund: 3 minerals (390201).
Dr. G. H. Nelson: 14 beetles (391113).
Nancy Malecek Neubert: a pair of ceremonial shoes (373806).
Dr. Beth Norden: 416 insects (392135).
Dr. John S. Noyes: 41 parasitic wasps (389928).

Dr. Charles W. O'Brien: a beetle (390320).
Dr. Lois B. O'Brien: 52 bugs (390621).
Mrs. Paul Oberlin: a Cooper's Hawk (388714).
Ray Ogilvie: a fossil dire wolf skull (387794).
Dr. Takashi John Ohwada: 2 worms (386748).
Dr. Tatsuo Oji: 6 crustaceans (376206).
Dr. Takashi Okutani: 2 mollusks (381836).
Anton E. Oleinik: 10+ freshwater snails (390480).
Senor L. G. Oliveira: 178 caddisflies (391131).
Dr. John A. Onderdonk, Jr.: a portion of a fossil auk humerus (390555).
Estelle Oozevaseuk: 3 Eskimo ethnological artifacts (362995).
Dr. Dennis Opresko: 13+ echinoderms (386979).
Dr. P. Orlandi: 3 minerals (388700).
Dr. Juan C. Paggi: 17 crustaceans (376875).
Dr. Stewart Peck: 16 centipedes (392139).
Boyce "Shorty" Peeler: 7 minerals (386221).
Dr. Olof Pellmyr: 290 moths (389926).
Thomas Perkins: 6 worms (388524).
Dr. Emile Pessagno: 84 fossils (387721, 390562).
Dr. Mary E. Petersen: a mollusk (384804).
Paul M. Peterson: 3,105 plants (383264).
Dr. John Pether: a fossil (391618).
Richard E. Petit: 20 mollusks (389042).
Dr. Edward J. Petuch: 18 mollusks (389032, 389392); 2 fossils (389394).
Dr. K. W. Philip: 83,156 butterflies and moths (392058).
James and Lorraine Pickering: 3 fossils (390544).
Joe Pinto: a fossil crocodile tooth (387716).

Austin Platt: a portion of a fossil bird humerus (390539).
Dr. John T. Polhemus: 520 insects (389930, 389944).
Mark Ports: 30+ snails (379579, 384086).
William L. Pratt: 6 mollusks (384826).
John H. Pugh: 2 minerals (386165).
Russell A. Rahn: 1,727 moths & butterflies (389959, 390756).
Dr. Dieter Rammlmair: 2 minerals (390202).
Emily Wheelock Reed: a Chinese banner (380060).
Jay R. Reich: 50 fossil vertebrates (388920).
Amanda Reid: 2 worms (382773).
Dr. Thomas Reinecke: 3 minerals (390218).
Jim Reynolds: a fossil whale tooth (390618).
Dr. R. Peter Richards: 3 quartzs (388346).
Charmoon Richardson: 20 minerals (388703, 390237).
Rick Riefner: 24 plants (390064).
Dr. J. Keith Rigby: 393 fossil sponges (387749, 389525).
Norman Riker: a portion of a fossil auk ulna (390554).
Dr. Edward G. Riley: 3 beetles (389938, 390312).
Mrs. Mary L. Ripley: a worm (344440).
Dr. S. Dillon Ripley: 3 birds (382396).
Gordon Rippon: 4 fossil mammals (386702).
Dr. Dan Rittschof: 2 fossil vertebrates (387747).
Debbie Roberts: 56+ crustaceans (389866).
Dr. Henry W. Robison: 11 crustaceans (378515, 383083).
Elizabeth Roessing: a Chinese wedding gown (366840).
Dr. David M. Rohr: 31 fossils (386670, 391580).
Dr. Greg Rouse: 12 worms (390365).

Mark Rowley: 15 mollusks (371203).
Dave Ruiter: 13 caddisflies (389898).
Dr. Curtis W. Sabrosky: 495 flies (391059, 392131).
Goran Sahler: a dragonfly (389901).
Dr. Sergio I. Salazar-Vallejo: 2 worms (382763).
Dr. Guillermo San Martin: 100+ worms (388540).
Dr. P. M. Sander: a fossil (389457).
Gunther Scharwz: 2 minerals (386189).
George Scheller: a yellow-headed Amazon parrot (388728).
Dr. Clarke Scholtz: 3 beetles (391115).
Dr. Carl F. Schueler (deceased): 12 ethnographic artifacts (387026).
Dr. Ludolf Schultz: a meteorite (391936).
J. Schwede: 24 plants (391217).
Dr. P. J. B. Scott: a crustacean (381718).
Dr. R. W. Scott: 9 fossils (388875).
Jorma Seetula: a mineral (386211).
Robynn K. Shannon: 67 plants (388430).
Dr. Arthur M. Shapiro: 9 butterflies (390321).
Gary Shauf: a mineral (386219).
Dr. Pouyan Shen: a mineral (388689).
T. A. Singleton, Jr.: 5 crustaceans (389824).
Mrs. Evelyn J. Slawson: 3 Hawaiian stone tools (378673).
Dr. Michael E. Smith: 3 worms (386730).
Murrel Smith: a New Guinea drum (387028).
Dr. Ralph Smith: 2 worms (388544).
Patrick Snow: a pair of Indian Moccasins (369754).
Dr. Israel Gregory Sohn: linen fragments (373808); 6 fossils (390525).

Ronald K. Sorem: 2 Mt. St. Helen ashes (389674).
Jim Springsteen: 400+ mollusks (379587).
Dr. Hubert J. Squires: 2+ crustaceans (385055).
Dr. Charles L. Staines, Jr.: 1,248 insects (390673).
Dr. Chris J. Stanley: a mineral (386173).
Edward Stansbury: 2 crustaceans (344193).
Dr. William P. Stark: 22 stoneflies (390319).
Robert Stelzer: 6 crustaceans (381777).
Dr. Karl H. Stephan: 44 beetles (390310, 391057, 391849).
Kristine K. Stockman: 4 archaeological artifacts (373015).
Anne W. Stockvis: 3 kachina dolls (373020).
Dr. Henry P. Stockwell: a beetle (390317).
Will Straube: a rock concretion (359475).
Dr. David Strehlow: 5 worms (346705).
Dr. Ned E. Strenth: 6 crustaceans (389823).
Theda Maw Sturtevant: See also Dr. William C. Sturtevant (373704).
Dr. William C. Sturtevant: 25 Northwest Coast Indian artifacts (373704).
Dr. J. Bolling Sullivan: 515 butterflies and moths (388257, 389958).
Sean Sweeney: 2 gems (388671).
Clyde Swindell: 113 fossil vertebrates (387791).
Joseph E. and Sylvia L. Randall: 28 ethnological artifacts (363029).
James Symington: a Samoan tapa cloth (380495).
Dr. Kazushinge Tanabe: 174+ fossils (387727).
Senor Luiz S. W. Terra: 1,376 caddisflies (391261).
Dr. James D. Thomas: a coral (389005).
Louis Todd: a snout of a fossil amphibian (388907).
Alexander S. Tompa, Estate of: See also Sally H. Tompa (384809).

Sally H. Tompa: 191,500 books, equipment & mollusks (384809).
Sedwick D. Tourison, Jr.: a mineral (386196).
Margot Townsend: a ring, a pin, & 2 pr. of earrings (390253).
Jerry D. Tracey: a portion of a fossil bird (389481).
Jean Trondle: 70+ mollusks (366097).
Dr. K. Tsuneki: 483 wasps (392132).
Dr. Emil K. Urban: a parka and cloth liner (373016).
Cindy Lee Van Dover: 1 lot of crab fragments (384990).
Charlotte Van Zant-King: a raven (387823).
Andrew Vik: 4 marine mollusks (390471).
Dr. Emily Vokes: 119 fossils (388874); 4 marine mollusks (390489).
Jane Wagner: a fossil crocodile tooth (391632).
Dr. David B. Wahl: 551 insects (389903).
Dr. R. G. Warren: a mineral (388699).
Dr. Julian F. Watkins: 3 ants (389934).
Mr. & Mrs. Charles Weatherly: 19 Panamanian Indian molas (385332).
Jan Weaver: 47 spiders (392138).
Dr. John S. Weaver: 4 caddisflies (390340).
Dr. and Mrs. Richard Webster: 2 minerals (390234).
Dr. Robert Weems: a fossil (390596).
Dr. Konrad F. Weidich: 13 fossils (390526).
Carol Weigold: 2 Tahitian skirts (366837).
Mrs. Ulrich Weiss: a mineral (388283).
Dr. Wilfried Westheide: 5 worms (388556, 388563).
Dr. Henry R. Westrich: 1 lot of minerals (388363).
Dr. A. G. Wheeler: 613 insects (389908).
Phil Whisler: a fossil skull (388871).

Dr. Thomas Whiteley: 57 fossils (388902).
Robert W. Whitmore: a quartz (390215).
Ronald S. Wielgus: 162 moths & butterflies (391128, 392137).
Robert Wiest: 14 fossils (386631, 386653, 389536).
James R. Wiker: a skipper butterfly (392129).
Edward T. Williams: 4 fossil mammals (386701).
Dr. S. A. Williams: a mineral (386179).
Robin Wilson: 33 worms (386721).
Dr. Willis W. Wirth: 509 insects (391850).
Bob Wisseman: 4 crustaceans (388213).
Marjorie Wolcott: an Indonesian basketry box (366034).
Stephen D. Wood: a Masai pendant necklace (387022).
Julian Wooten: a fossil mastodon upper molar (387750).
Dr. W. Curtis Wozencraft: See also Academia Sinica, China (387287).
Dr. Frank N. Young: 163 aquatic beetles (389919).
Richard Young: a rock sample (388259).
Victor Yount: a quartz & 1 lot of minerals (388364).
Dr. Yang Yueging: a mineral (388375).

Institutions

- A. Remington Kellogg Fund: 235 fossil vertebrates (385116, 385819).
- Aarhus Universitet, Denmark: 4 plants (387451, 388801).
- Academia Sinica, China: 13 birds (387287); 17 echinoderms (388997); a plant (391777).
- Academy of Sciences of the USSR, Russia: 2 casts & a sample of mammoth hair (386683); 600 crustaceans (388212); 235 worms (388545); 213 plants (389584, 391012); 5 fishes (385944, 390270); 28 weevils (391112).
- Alabama, University of: 3 fishes (388056); 19 plants (388412).
- Alaska, University of: 7 crustaceans (383140).
- All-Union Research Institute of Marine Fisheries & Oceanography, USSR: 2 crustaceans (386563); 28 fishes (391674).
- Amsterdam, University of, The Netherlands: 3 mollusks (386361); 52 crustaceans (371048).
- Arizona, University of: 3 echinoderms (386975); 5 plants (389154).
- Arkansas Natural Heritage Commission: 3 plants (390072).
- Asociacion Mexicana de Orquideologia Herbarium, Mexico: 22 plants (386431).
- Atlanta Botanical Garden: a plant (388392).
- Atlantic Reference Centre, Canada: 6+ crustaceans (383137).
- Auckland, University of, New Zealand: 2 crustaceans (383121).
- Australia Bureau of Mineral Resources, Geology & Geophysics, Australia: 45 fossils (390537).
- Australian Museum, Australia: a worm (343068); 80 mollusks (386365); 16 crustaceans (389829).
- Australian National University, Australia: 25 plants (391194).
- Barton Mines Corporation: a garnet (390631).
- Bernice P. Bishop Museum: 39 plants (389127, 390124, 391969).
- Botanicke oddeleni Prirodoved. maza, Czechoslovakia: 14 plants (390053).
- Botanisches Institut der Universitat Wien, Austria: a plant (388406).
- Brigham Young University: a fossil (391596).
- British Columbia, University of, Canada: 24 plants (388748).

British Museum (Natural History), England: 3 plants (386862, 386874); 9 insects (388246, 390313).

Bryn Mawr College: a crustacean (381752).

California Academy of Sciences: 5 crustaceans (381775); an echinoderm (386971); 2 fossils (387729); a plant (387914); 24 mollusks (398022).

California State University: 2 echinoderms (388980).

California, University of: 51 crustaceans (378462, 383089); 3 fishes (385966); 31 plants (386876, 388384, 389102, 391190, 391739); Scripps Institution of Oceanography: 11 fishes (365323, 380452); 2 crustaceans (385031); 7 echinoderms (386952, 386994, 390693); 21 fossils (386952, 390677).

Calvert Marine Museum: 2 fossil vertebrates (388913).

Canada, Atlantic Geoscience Center, Canada: 3 corals (386970).

Canfield Fund: 8 minerals (383008, 386141, 386190, 388668).

Carnegie Museum of Natural History: 31 plants (389159, 389163, 390949, 391786).

Center ORSTOM de Tahiti, French Polynesia: 888 plants (382644, 386430, 387862, 398150).

Centre National de Trid'Océanographie Biologique (CENTOB), France: 240 crustaceans (378432).

Centre O.R.S.T.O.M. de Cayenne, French Guiana: 52 plants (387863, 391743, 391759, 391795).

Centro Agronomico Tropical de Investigacion y Ensenanza, Costa Rica: 2 plants (388428).

Centro de Botanica, Mexico: 80 plants; 26 plants, (386875, exchange).

Centro de Botanica Tropical, Venezuela: 6 plants (387411).

Centro de Experimentacion Pesquera, Spain: 2 lots, 17 crustaceans (383070).

Centro Internacional de la Papa, Peru: a plant (391741).

Chamberlain Fund: 3 faceted gems (371365, 388330).

Ciudad Universitaria, Paraguay: a crustacean (386546).

Clemson University: 2 plants (388810); 606 crustaceans (386562, 388214, 389852).

Cleveland Museum of Natural History: a fossil (386673).

Coleccion De Peces Instituto De Ciencias del Mar, Spain: 22 crustaceans (385072).

Colorado Springs Pioneers Museum: 2 mounted Pigeons (388716).

Connecticut College: 20+ freshwater snails (386353).

Conservatoire et Jardin Botaniques, Switzerland: 14 plants (388766).

Continental Shelf Associates, Inc.: a crustacean (385053).

Copenhagen, University of, Denmark: 21 crustaceans (388146, 388229).

Coral World (VI) Inc., Virgin Islands: 4 fishes (391694).

Cordell Bank Expeditions: 2 echinoderms (383655).

Cornell University: a coral (388969); a plant (398155).

Czechoslovak Academy of Science, Czechoslovakia: 19 plants (387434, 389176).

Dalhousie University, Canada: 5 fish skeletons (387510); 50 fossils (388935, 388946, 388949).

Delaware Museum of Natural History: 2 marine snails (391311).

Department of Environment and Conservation, Australia: 17 plants (390143).

Dept. of Marine & Wildlife Resources, American Samoa: a fish (386939).

Drake Fund: 3,829 insects (390311).

Empresa Pernambucana de Pesquisa Agropecuaria, Brazil: 10 plants (391259).

Escuela Politecnica Nacional, Ecuador: 100+ freshwater fishes (387487).

Estacion de Biologia, Mexico: 373 crustaceans (289883).

Facultad de Ciencias Biologicas UANL, Mexico: 9 crustaceans (386549).

Fairchild Tropical Garden Herbarium: a plant (388454).

Field Museum of Natural History: 39 plants (386829, 386834, 389108, 389111, 389140, 389165); 5 plants (386829, exchange).

Florida Audubon Society: a bird (387816).

Florida Department of Natural Resources: 15 worms (317441); 14 corals (383640); a mollusk (389419).

Florida State University: 2 crustaceans (383126).

Florida, University of: 13 crustaceans (386541, 389839); Florida State

Museum: 54 crustaceans (383144).

Florida Wildlife Research Laboratory: 7 crustaceans (391378).

Forschungsinstitut Senckenberg, West Germany: 75+ echinoderms (386967).

Franklin Mineral Museum: 2 minerals (390221).

George Washington University: 25+ corals (385409).

Georgia Southern College: 7 crustaceans (388157).

Georgia, University of: 2 plants (388779, 389149).

Goteborg, University of, Sweden: 65 plants (387416, 387428, 387443, 387458).

Guadelajara, University of, Mexico: 4 mollusks (386352).

Guam, University of, Guam: 2 mollusks (378796).

Guangxi Institute of Botany, China: 154 plants (389606).

Guelph, University of, Canada: an echinoderm slide (388976).

Harbor Branch Oceanographic Institution: 14 mollusks (389041, 389045, 390490); 7 echinoderms (390692).

Harvard University: 2 crustaceans (356689).

Hawaii Dept. of Land & Natural Resources: 4 fishes (390261).

Hawaii, University of: a worm (270354); 4 fishes (387485).

Heard Natural Science Museum & Wildlife Sanctuary: 3 crayfishes (391358).

Herbario A. Castallanos, Brazil: 10 plants (387907).

Herbario "Barbosa Rodrigues", Brazil: 78 plants (391798).

Herbario CIIDIR, Mexico: 3 plants (389103).

Herbario Companhia Vale do Rio Doce, Brazil: 29 plants (388778).

Herbario Jardin Botanico, Colombia: a plant (387926).

Herbario Nacional de Bolivia, Bolivia: 4 plants (390948).

Herbario Universitario, Venezuela: 12 plants (386272).

Herbier du Centre ORSTOM de Cayenne, France: 512 plants (386802, 386839, 386842, 387453).

Hiroshima University, Japan: 30 crustaceans (386565).

Holographic Design Incorporated: a fossil (388887).

Huntington Botanical Gardens Herbarium: 8 plants (357801).

Houston, University of: 3,336 crustaceans (383103, 386550).

Hydrozoology: 3 snails (384839).

Idaho, University of: 159 insects (389917, 390339).

Independent Jewelers Organization: a quartz (388326).

Indiana University: 94 crustaceans (365634, 385069, 389840).

Institut Francais de Recherche Scientifique, New Caledonia: 6 fishes (388087).

Institut Fur Zoologie - Der Universitat Wien, Austria: 16 crustaceans (388166).

Institut fur Botanik und Botanischer Garten der Universitat, Austria: 62 plants (390055, 390127).

Institut fur Systematische Botanik der Universitat Zurich, Switzerland: 48 plants (389657).

Institute of Marine Sciences: 25 protozoan slides (388966).

Institute of Ocean Sciences, Canada: 10 worms & 21 worm slides (341804, 386704).

Institute of Systematic Botany, The Netherlands: 29 plants (386846, 387419, 387880, 390054); 333 plants, (386846, 387410, 387880, exchanges).

Instituto Nacional de Parques, Venezuela: 33 plants (387433).

Instituto Nacional de Pesquisas da Amazonia, Brazil: 14 plants (387440); 8 crustaceans (389887).

Instituto de Botanica, Brazil: a plant (391955).

Instituto de Limnologia, Mexico: 14+ freshwater mollusks (386335).

Israel Oceanographic & Limnological Research Ltd., Israel: a protozoan slide (388968).

J. L. B. Institute of Ichthyology, South Africa: 5 fishes (387507, 388128).

James Madison University: 48 crustaceans (389863).

Jardim Botanico do Rio de Janeiro, Brazil: 4 plants (389655).

Jardin Botanico Nacional, Republica Dominicana: 26 plants (391736, 391738); 70 plants, (391738, exchange).

Jaws International: a fish (391672).

John Wanamaker, Inc.: a Northern Crow Indian dress (380522).

Kagoshima University, Japan: 638 crustaceans (386591).

Kamigamo Experimental Forest Station, Japan: 28 plants (358849).

Kansas, University of: 2 bees (389904).

Kentucky Nature Reserves Commission: 965 crustaceans (359217).

Kentucky, University of: a plant (387395).

Kumamoto University, Japan: 42 crustaceans (388225).

Kyushu University, Japan: 15 crustaceans (389818).

Lamar University: 64 crustaceans (385066).

Los Angeles County Museum of Natural History: 10+ fossils (359915); 17 crustaceans (385032, 388154); a mollusk (390512).

Louisiana State University: 88+ echinoderms, 2 mollusks, 15 worms (388965).

Maine, University of: 4 crustaceans (381798).

Manitoba, University of, Canada: 8 crustaceans (385022).

Manufacturers Hanover Trust of New York: a Chumash basket (364978).

Marie Selby Botanical Gardens: 5 plants (390056); 13 plants, (390056, exchange).

Maryland Wholesale Seafood Market: a fish (391691).

Maryland, University of: 2 crustaceans (389841).

McGill University, Canada: 20 crustaceans (369481).

Memphis State University: 39 freshwater mollusks (306096).

Miami, University of: 44 crustaceans (373163, 388184); 9 echinoderms (390685).

Michigan, University of: 23,917 archeological specs. (370643).

Middle American Research Institute: approx. 675 ceramic sherds (379709, 379710).

Mie University, Japan: 4 crustaceans (378472).

Mineral Fund: 22 specs. including minerals and quartzs (384555, 386222,

388286, 388289, 388308, 388366, 388666, 388669).

Minnesota, University of: a plant (386857); 8 insects (391058).

Missouri Botanical Garden Herbarium: 2,992 plants (386823, 386824, 387391, 387437, 387897, 388435, 388456, 388777, 389580, 389619, 389641, 389643, 390049, 391001).

Missouri Department of Conservation: 8+ snails (384078).

Montana State University: 30+ snails (386344).

Morton Arboretum: a plant (391245).

Museo Nacional, Costa Rica: 28 plants (391215).

Museo Nacional de Historia Natural, Paraguay: 31 fishes (388089).

Museu Botanico Municipal, Brazil: 172 plants (387376, 388837, 391728, 391801).

Museum National D'Histoire Naturelle, France: 42 crustaceans (381784, 386577, 388200, 388227, 388232, 389816); 50 mollusks (386362); 89 plants (388451, 389118, 390126, 391756, 391763); 361 plants, (390126, 391756, exchanges).

Museum of Natural History Herbarium: a plant (381882).

Nancy Sales Co., Inc.: a wooden fish carving on coral rock base (386976).

Natal Museum, South Africa: 26 mollusks (386363, 389417).

Natal Shark Board, South Africa: a fish jaw (387515).

National Herbarium, East Africa: 17 plants (384959).

National Institute of Oceanography, India: 19 crustaceans (389873).

National Museum of New Zealand, New Zealand: 29 marine fishes (386916).

National Museum of the Philippines, Philippines: 28 birds (380560).

National University of Singapore, Singapore: 2 freshwater crabs (389804).

Natural History Museum, England: a worm (386752).

Nevada, University of: 9 plants (389091).

New Mexico Bureau of Mines and Mineral Resources: 47 fossils (388926).

New York Botanical Garden Herbarium: 1,015 plants (386436, 387837, 387921, 389132, 390968, 391019, 391974, 391988); 265 plants (387837, exchange).

North Carolina Central University: 50 protozoan slides (390689).

North Carolina State University: 25+ worms (345388); a crustacean (381759).

North Carolina, University of: a crustacean (389817); 20 fossils (390600).

Northern Community College: 130+ snails (384818).

Office de la Recherche Scientifique et Technique Outre.Mer, Bolivia: 34 plants (387442).

Old Dominion University: 10+ freshwater snails (384084); 14 crustaceans (386507, 386594).

Ontario Ministry of Natural Resources, Canada: 7 plants (388827).

Oregon State University: 3 plants (379531, 388742); 3 crustaceans (379974).

Pacific Lutheran University: a plant (389627).

Pacific Tropical Botanical Garden: 5 plants (389158); 8 plants, (389158, exchange).

Pan American Health Organization/WHO, Barbados: 15 crustaceans (383141).

Pennsylvania State University: 13 fishes (388131).

Philadelphia Academy of Natural Sciences: 2 fishes (388041).

Pontifica Universidad Catolica del Ecuador, Ecuador: 348 plants (391251); 14 plants (391251, exchange).

Puerto Rico, University of: 8 crustaceans (371027, 388138); 5 worms (388517).

Queensland Museum, Australia: 25 deep-water corals (385437).

Queensland, University of, Australia: an echinoderm (390694).

Rancho Santa Ana Botanic Garden: a plant (388758).

Regional Fishery Support Programme, Fiji: 54 fishes (390276).

Regional Institute of Fisheries Technology, Philippines: 100+ fishes (383747).

Remington and Marguerite Kellogg Memorial Fund: approx. 200 fossil vertebrates (391567).

Reserva Ecologica do IBGE, Brazil: 130 plants (389142).

Reserva Florestal da Cia, Brazil: 40 plants (389613, 390989, 391007).

Rhodes University, South Africa: 2 crustaceans (383138).

Rijksherbarium, The Netherlands: 196 plants (389156); 107 plants (389156, exchange).

Roebeling Fund: 34 specs. including 1 lot, minerals & quartzs (386156, 386161, 386185, 386192, 386194, 386210, 386223, 388291, 388292, 388297, 388365, 388656, 388657, 388667, 388670).

Roland W. Brown Fund: 3,063 fossil plants (389523, 390536).

Royal Botanic Garden, England: 153 plants (386835, 387454, 388411, 390050, 391216).

Royal Botanic Gardens and National Herbarium, Australia: a plant (388427).

Royal Ontario Museum, Canada: 82 fishes (387525, 390288).

Ryukyus, University of, Japan: 492 crustaceans (369887, 383147).

San Diego Natural History Museum: 3 crustaceans (386508, 388233); 5 worms (390360).

Santa Barbara Museum of Natural History: 4 crustaceans (383102); a plant (390988).

Shikoku Women's University, Japan: a crustacean (381780).

Shinshu University, Japan: 10 fishes (390818).

Smith College: 135 fishes (387509).

South Alabama, University of: 8 crustaceans (385074).

South Australian Museum, Australia: 7 worms (384495, 388553); 9 echinoderms (386977, 390675).

South Florida, University of: 31 fishes (390824); 6 plants (391195).

Southern Arkansas University: 50 crustaceans (385021, 385048).

Southern California, University of: 4 crustaceans (389809).

Southern Illinois University: 60 plants (390092); 185 plants, Exchange (390092); 2 fishes (390278).

Southwest Texas State University: 3 crustaceans (347788).

Southwestern Louisiana, University of: a plant (391004).

Special Exhibition Fund: 2 casts & molds of a fossil bird (389511).

Springer Fund: See also Walcott Fund (389538).

St. Joseph's College, India: 19 plants (390953, 391751).

Station Marine D'Endoume et Centre d'Océanographie, France: 110+ corals (386987).

Stuart Fund: 4 minerals (386148, 388325).

Sul Ross State University: a plant (388760).

Swedish Museum of Natural History, Sweden: 33 mollusks (386358, 387962).

T. F. H. Publications, Inc.: 22 fishes (386915, 386923).

Taichung Bird Society, Taiwan: 2 bird skins (370823).

Tel Aviv University, Israel: 2 crustaceans (388174); 28 plants (390991).

Tennessee, University of: a plant (386843); a fish (390287).

Texas A & M University: 16 crustaceans (383104, 385006, 385023, 386528, 391370).

Texas Parks and Wildlife Department: 8 mollusks (384837).

Texas, University of: 3 worms (325044); 51 plants (386409); 120 mollusks (389402); 8 fishes (390285).

Thessaloniki, University of, Greece: 2 fishes (388040).

Thomas Edison & Henry Ford Winter Estates: a plant (391208).

Tiffany and Company: a necklace (391461).

Tokyo, University of, Japan: 1 lot of crustaceans (307119).

Tokyo University of Fisheries, Japan: 34 crustaceans (385012, 389870).

Toronto, University of, Canada: 3 crustaceans (352771).

Tulane University: 93+ corals (386992); 22 fossils (388927).

Tulsa, University of: a plant (389189).

Universidad Austral de Chile, Chile: 36 crustaceans (389855).

Universidad Autonoma de Guadalajara, Mexico: 6 plants (386848).

Universidad Autonoma de Nuevo Leon, Mexico: 14 fishes (389239).

Universidad Central de Venezuela, Venezuela: 19 plants (387444, 389581, 389605).

Universidad de Antioquia, Colombia: 191 plants (389570).

Universidad Mayor de San Andres, Bolivia: 33 plants (388756).

Universidad Nacional Autonoma de Honduras, C. America: 28 marine algae (388750).

Universidad Nacional Autonoma de Mexico, Mexico: 2 echinoderms (386948); 9 insects (391056).

Universidad Nacional Experimental de los Llanos Occidentales "Ezequiel Zamora", Venezuela: 105 plants (387378).

Universidad de Antioquia, Colombia: 17 plants (388447, 391180).

Universidad de Antofagasta, Chile: 4 crabs & 6 parasites (385013).

Universidad de Costa Rica, Costa Rica: 7 fishes (389208).

Universidad de Guadalajara, Mexico: a plant (388471).

Universidad de Oriente, Venezuela: 65 plants (391740).

Universidad del Valle, Colombia: 436 plants (390112, 391731); 6 plants, Exchange (391731).

Universidade Estadual de Campinas, Brazil: 10 plants (388822).

Universidade Federal da Paraiba, Brazil: 249 fishes (388051, 389209).

Universidade Federal de Juiz de Fora, Brazil: 21 plants (390109, 390110).

Universidade Federal do Rio Grande do Sul, Brazil: 15 crustaceans (389861, 391365).

Universidade de Caxias do Sul, Brazil: 22 plants (387406).

Universidade de Sao Paulo, Brazil: 5 plants (388448); 6 echinoderms (390703).

Universidade do Ceara, Brazil: 34 shrimps (264089).

Universita Degli Studi Dell Aquila, Italy: 3 crustaceans (383115).

Universita di Genova, Italy: a crab (381736).

Universita' Degli Studi di Modena, Italy: 4 slides, 6 crustaceans (386545).

Universite Antilles - Guyane U.F.R. Sciences, French West Indies: 16 plants (391797).

Universite de Provence, France: 4 crustaceans (386590).

University College, Ireland: 5+ crustaceans (383142).

Uppsala, University of, Sweden: 2 plants (389660).

Utica College of Syracuse University: 5 worms (341571).

Utsunomiya University, Japan: 4 plants (388379).

Valdosta State College: 23 plants (389614).

Vanderbilt University: 133 plants (389099, 389654).

Vienna, University of, Austria: 196 plants (391012).

Walcott Fund: a fossil slab (384128); 11,135 fossils (384128, 386637, 386642, 388914, 389522, 389538).

West Indies, University of, Jamaica: 4 echinoderms (388986).

Western Australian Museum, Western Australia: 16 mollusks (367859, 380319); an echinoderm (388978).

Western Paleontological Laboratories: a fossil plant & crocodile cast (389519).

Western Washington University: 109 crustaceans (386537, 386561).

Whittenberg University: 20 crustaceans (376265).

Wilhelm Pieck Universitat Rostock, East Germany: 30+ mollusks (387944).

Williams College: 370+ crustaceans (391357).

Wisconsin, University of: 100 crustaceans (385064); 8 plants (382320, 387904, 387905, 391761).

Woods Hole Oceanographic Institution: 50 worms (341954, 390359); 53 echinoderms (386986, 390359).

Yale University School of Medicine: 2 echinoderms (386972).

Zoological Institute, Sweden: 7 protozoan slides (389001).

Zoologisch Museum, The Netherlands: 20 fishes (390785).

NATIONAL PORTRAIT GALLERY

- Anonymous Donor. Charcoal drawing of Zubin Mehta by Burton Silverman (S/NPG.89.229).
- Estate of Anthony Accurso. Twenty-four courtroom drawings by Anthony Accurso (T/NPG.90.54-60, T/NPG.90.62-74, S/NPG.90.61, S/NPG.90.76-78).
- Gift of Mr. Herman Chanen, Mr. Tom Chauncey, and other friends of President and Mrs. Reagan. Oil on canvas portrait of Ronald Reagan by Henry Casselli (NPG.90.79).
- Rosemary L. Frankeberger. Two posters of Martin Luther King, Jr. by Peter Gee (NPG.90.211-212), one poster of Francis Spellman by Edward Sorel (NPG.89.213), and one poster of John Steinbeck by David Stone Martin (S/NPG.89.215).
- Dr. Fred W. Hicks III. Nine 19th century lithographs including John Quincy Adams (NPG.89.216), James Buchanan (NPG.89.217), Henry Clay Jr. (S/NPG.89.222), Andrew Jackson (NPG.89.218), Abraham Lincoln (NPG.89.219), James Polk (NPG.89.220), Zachary Taylor (S/NPG.90.221), George Washington (S/NPG.89.223), and The Washington Family (S/NPG.89.224).
- Allan Houser. Bronze portrait head of Geronimo by Allan Houser (S/NPG.90.23).
- Mr. and Mrs. Harold Kant. Charcoal drawing of George Balanchine by Burton Silverman (T/NPG.90.21.93).
- Everett Raymond Kinstler. Ink drawing of Kinstler and Adolf Hitler by Kinstler (S/NPG.90.20.00).
- Jere (Mrs. Eric) Knight. Egg tempera on panel portrait of Eric Knight by Peter Hurd (NPG.89.226), and wood carving of Lassie by Eric Knight (AD/NPG.89.1).
- Estate of Boris Lovet-Lorski. Bronze bust portrait of Feodor Ivanovich Chaliapin by Boris Lovet-Lorski (NPG.1990.1), and gilded bronze self-portrait head by Boris Lovet-Lorski (S/NPG.1990.2).
- Leo Mol. Bronze portrait head of Dwight D. Eisenhower by Leo Mol (NPG.90.22).
- The National Trust for Historic Preservation. Poster of George H.W. Bush and George Washington by Pat Oliphant (S/NPG.90.5).
- Eleanor Hunt O'Donoghue. Oil on canvas portrait of Archbishop John Carroll by an unknown artist (NPG.89.207).
- The Ormond Family. Photograph, albumen silver print, of John Singer Sargent by Henry Havelock Pierce (NPG.90.48).
- Irving and Frances Phillips. Two drawings by Burton Silverman: Benny Goodman (T/NPG.89.227.96) and Vladimir Horowitz (T/NPG.89.228.99).
- Tjark Reiss. Pastel drawing of William Henry Jackson by Winold Reiss (NPG.90.47).
- E.F. Rivinus. Photograph, hand-colored salt print, of Francis Markoe, Jr., by an unidentified photographer (S/NPG.90.51).
- Murray Robinson. Oil on canvas portrait of Samuel Robinson by John Joseph Capolino (NPG.90.34).
- Burton Silverman. Six drawings by Burton Silverman: Rudolf Bing (S/NPG.90.14), Kenneth Clark (S/NPG.90.15), Ralph Ellison (S/NPG.90.16), I.I. Rabi (S/NPG.90.17), Carl Sagan (S/NPG.90.18), and Lewis Thomas (S/NPG.90.19).

Edward and Cassandra Stone. Pencil drawing of T.S. Eliot by Aimee Lamb (NPG.90.44).
Miriam Troop. Four preliminary sketches for drawings of Ellsworth Bunker (S/NPG.89.147 and S/NPG.89.148), A. Philip Randolph (S/NPG.89.149), and Sidney Hook S/NPG.89.214)
Erwin P. Vollmer. Ink drawing of Walter Pach by Aline Fruhauf (NPG.89.197).
Jane (Mrs. Walter M.) Whitehill. Bronze portrait bust of Walter Muir Whitehill by Janet Gregg Schroeder (NPG.89.208).

OFFICE OF FOLKLIFE PROGRAMS

Mario Benjamin. U.S. Virgin Islands fishnet.
Elscoe and Associates Carnival Troupe. Ten carnival costumes from the U.S. Virgin Islands.
Manjita Tanjian. Taparka (Senegalese appliance for pressing cloth).

DONORS OF IN-KIND SUPPORT

NATIONAL ZOOLOGICAL PARK

Eric Harnden. Time and talent to compose, produce and mix original score for New Opportunities in Animal Health Sciences (NOAHS) Center video
Pan American World Airways. Transportation of emergency fire fighting equipment from U.S.A. to Brazil during a fire in the Poco das Antas Wildlife Reserve
Qantas World Airways. Round-trip tickets from U.S.A. to Australia for use by National Zoological Park researchers
TransMedia Inc. Studio service for composition, production and mixing of soundtrack for NOAHS Center video
Wolf Medical Instruments Corporation. A laparoscope for reproductive physiology research and procedures
Cecily & John S. Wood, Jr. Hanging mobile sculpture of Canada geese titled "Flight"

COOPER-HEWITT MUSUEM

- American Express. Expenses for printing of invitation for members' preview, opening reception and press preview, and opening reception and press reception expenses for "The Intimate World of Alexander Calder."
- Art in America (Brant Publications). Gift of advertising space for period of one year.
- Bacardi Rum. 1 case for Junior Committee Benefit.
- Bas Trade Inc. 500 samples of "Cacique" Brazilian coffee for Junior Committee Benefit.
- Bridgehampton Vineyard. 1 case of wine for members' Garden Party.
- Brora Imports. 25 sides of "Blairs Smoked Scottish" for members' Garden Party.
- Carillon Importers, Ltd. 4 cases of "Bombay Sapphire Gin", "Absolut Citron Vodka" and 500 "La Grande Passion" samples for Junior Committee Benefit.
- Craftsman Litho. Printing of invitation for Junior Committee Benefit.
- Eng and Yee Designs, Inc. Design of invitation for Junior Committee Benefit.
- F & H Travel Consulting. Six days accommodations in Rio de Janiero and Buzios for Junior Committee Benefit.
- Frost Lighting Company. Lighting for tent and dance floor for Junior Committee Benefit.
- Gold Coast Enterprises. 4 cases of "Pommac", 4 cases of "Alpina", 4 cases of "Tianfu Chinese Cola", 2 cases of "Cecemel" and 4 cases of "Copella Apple Juice" for members' Garden Party.
- House of Seagram. 2 cases of "Myer's Rum" and 2 cases of "Platinum Rum" for Junior Committee Benefit.
- Niki Singer Inc. 8 cases of Cordonui champagne for Junior Committee Benefit.
- Manhattan Inc. 500 magazines for Junior Committee Benefit.
- Omega Fashions. 600 Brazilian friendship bracelets for Junior Committee Benefit.
- Pindar Vineyards. 5 cases of "Winter White" wine for members' Garden Party.
- Ronaldo Maia Ltd. Decor and flowers for Junior Committee Benefit.
- Royal Copenhagen. Invitation design and printing expenses and opening reception expenses for "Flora Danica and the Heritage of Danish Porcelain.
- Saks Fifth Avenue. 500 bags for Junior Committee Benefit.
- Smithsonian Magazine. 500 magazines for Junior Committee Benefit.
- Stamford Tent and Equipment Company. Dance floor and tent for Junior Committee Benefit.
- The Crane Club. Free admission for 500 guests for Junior Committee Benefit.
- Varig Brazilian Airlines. 2 round trip tickets to Rio de Janiero for Junior Committee Benefit.
- W.A. Taylor & Company. 3 cases of "Carolan Irish Cream Liqueur" and 3 cases of "Midori Melon Liqueur" for Junior Committee Benefit.
- Winebow Inc. 3 cases of "Pitu", "Pitu" glasses and caipirinah recipe cards for Junior Committee Benefit.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Balair. Service gift of curator's transportation to and from Switzerland.

Barassi and Thompson. Donation of San Pellegrino mineral water for special events.

OFFICE OF FOLKLIFE PROGRAMS

American Airlines. Airline tickets for U.S. Virgin Islands program research.

American Cultural Center in Senegal. Office support for Senegal program research.

American Folklore Society. Twelve memberships to Summer Folklore Institute participants.

American Textile Manufacturers Institute. One bolt of damask for use in the Senegal program.

Bacardi Imports. Two cases of rum for U.S. Virgin Islands foodways demonstrations.

Belle Haven Pharmacy. Loan of two wheelchairs for elderly festival participants.

Ben & Jerry's Ice Cream. Six tubs of ice cream for festival hospitality.

Bittersweet Hill Nurseries. Six containers of herb plants for U.S. Virgin Islands program.

Bloomington's. Loan of four mannequins for use by U.S. Virgin Islands costume makers.

Bustelo Coffee Roasting Co. Two cases of coffee for U.S. Virgin Islands participants.

Carambola Beach Resort. Office support for U.S. Virgin Islands program.

Cash Grocer Natural Foods. One hundred fifty pounds of millet for Senegal program foodways demonstrations.

Celestial Seasonings, Inc. Seven cases of herbal teas for festival hospitality.

Chevy Chase Glass Company, Inc. Glass for Senegal program reverse glass painting demonstrations.

Delmonte Fresh Fruit Co. Five boxes of bananas and five boxes of pineapples for U.S. Virgin Islands program foodways demonstrations and marketplace.

Eastern Airlines. Airline tickets for U.S. Virgin Islands program research.

Embassy High's Dairy. Two cases of orange juice for festival hospitality.

Florida Department of Citrus. Box of pens for festival office.

Frederiksted Fort. Meeting space for U.S. Virgin Islands program.

Frenchman's Reef Beach Resort. Research support for U.S. Virgin Islands program.

Hechinger Company. \$200 gift certificate for festival site construction materials.

Hecht's. Loan of two female mannequins for use by U.S. Virgin Islands costume makers.

Herrs Foods, Inc. Ten boxes of potato chips for festival hospitality.

House of Musical Traditions. Loan of a classical guitar for festival Musics of Struggle program.

House of Seagram. Loan of four oak barrels for use as decorative containers for tropical plants, U.S. Virgin Islands site.

Imperial Products Corporation. Four hundred pounds of charcoal.

J.R. Brooks and Son, Inc. Two boxes of coconuts, ten boxes of mangoes and ten boxes of papayas for U.S. Virgin Islands foodways demonstrations.

Lanscot Arlen Fabrics, Inc. Two bolts of white damask for Senegal program.

Los Caris Marble, Inc. Marble board for U.S. Virgin Islands foodways demonstrations.

Marie Selby Botanical Gardens. Tropical plants for festival site.

Maryland Pork Producers. Pig for U.S. Virgin Islands foodways demonstration.

Melitta U.S.A., Inc. Four cases of coffee for festival hospitality.

Miller Manor. Research support for U.S. Virgin Islands program.

M. Polaner, Inc. Three cases of peanut butter for foodways demonstrations.

National Arboretum. Loan of thirty-six plants for festival site.

Office of the President of the Republic of Senegal. Use of airplane for transportation of Senegalese participants and materials to the United States.

Old Tyme Soft Drink, Inc. Fifteen cases of soft drinks for festival hospitality.

Organic Farms Inc. Fifty pounds of brown rice for Senegal program foodways demonstrations.

Our Town Frederiksted. Research support for U.S. Virgin Islands program.

Pink Fancy Hotel. Research support for U.S. Virgin Islands program.

Point Pleasant Resort. Research support for U.S. Virgin Islands program.

Polaroid Foundation. Six polaroid cameras and twenty packs of film for Folklore Summer Institute.

Publicity Inc. Research support for U.S. Virgin Islands program.

Rudy Foods, Inc. Forty-five cases of frozen croissants for festival hospitality.

Senegal Ministry of Culture and Communication. Travel for Senegal participants, and staff time.

Senegal Ministry of Tourism and Environment. Research support for Senegal program; materials for festival site and program presentations; and lost work time compensation for participants.

Snyder of Hanover. Ten boxes of potato chips for festival hospitality.

Southern Tropical. Discount on tropical plants and two hundred and fifty palmfronts for U.S. Virgin Islands program site.

Steel and Wire Co. Six cases of drywall screws for festival site construction.

Stouffer Grand Beach Resort. Research support for U.S. Virgin Islands program.

Sugar Association, Inc. Four hundred pounds of sugar.
Sunshine Packaging Co. Twenty-five boxes of limes for festival
hospitality.
Uncle Ben's, Inc. Seventy-five pounds of long grain rice.
Université Cheikh Anta Diop de Dakar - Institut Fondamental de
l'Afrique Noire. Research support for Senegal program.
University of the Virgin Islands Cooperative Extension Service.
Plants for U.S. Virgin Islands program site.
Utz Quality Foods, Inc. Ten boxes of potato chips for festival
hospitality.
Villa Morales Restaurant. Meeting space for U.S. Virgin Islands
program.
Virgin Islands Council on the Arts. Assistance with Museum Shops
purchasing for festival sales; loan of art exhibit for U.S.
Virgin Islands reception.
Virgin Islands Rum Industries Ltd. Five cases of Cruzian Rum for
U.S. Virgin Islands hospitality.
Wilkins Coffee. One case of coffee for festival hospitality.
William B. Riley Coffee Company. One hundred pounds of Luzianne
coffee for festival hospitality.

Appendix 8

Contributing Members of the Smithsonian Institution in Fiscal Year 1990

The Contributing Members of the Smithsonian National Associates support the Institution through generous annual donations and special gifts. Their participation enables the Smithsonian to pursue specific projects and broader research, acquisition, preservation, and education efforts than might otherwise be possible.

The Smithsonian Institution therefore gratefully acknowledges the loyal and thoughtful assistance of the Contributing Members, including the Sustaining Members (\$600 annual contribution) and Sponsoring Members (\$300 contribution) listed below.

SUSTAINING MEMBERS

Mr. and Mrs. Byrle M. Abbin	Mr. James H. Berkson
Dr. J. Scott Abercrombie, Jr.	Mr. and Mrs. George W. Bermant
Honorable and Mrs. David C. Acheson	Mr. John A. Bernard
Mr. Davey L. Adams, Jr.	Mr. and Mrs. Seymour Bennett
Dr. and Mrs. Samuel W. Adams	Mr. and Mrs. Charles P. Berney
Mr. and Mrs. Emil A. Adomat	Mr. Richard D. Bernstein
Mrs. Carolyn Agger-Fortas	Mr. Eugene J. Bevers
Honorable and Mrs. James E. Akins	Mr. Anthony P. Biemans
Mr. Yale H. Alexander	Mrs. Elsie F. Bixler
Mr. Morris Alhadeff	Mrs. Hill Blackett
Mr. Burton O. Allen	Ms. Alexandra Blackhurst
Ms. Marcia Y. Almassy	Mr. and Mrs. Robert E. Black
Mrs. Robert Amory, Jr.	Mr. and Mrs. Douglas L. Blair
Mr. Clifford H. Anderson	Honorable Lindy Boggs
Mr. Arthur Andraitis	Honorable and Mrs. Edward P. Boland
Mr. Keith W. Antcliff	Ms. J. A. Boorman
Mr. and Mrs. Richard S. Antes	Mr. Clifton W. Boots
Mr. Alfred C. Antoniewicz	Dr. Cary W. Booz
Ms. Barbara A. Aplanalp	Ms. Margaret L. Bourgerie
Honorable Anne L. Armstrong	Dr. and Mrs. William G. Bowen
Mr. and Mrs. C.M. Ashton	Mr. and Mrs. Mitchell T. Bowie
Mrs. John Paul Austin	Mrs. Constance T. Boyd
Mrs. Ray Awtrey	Mr. and Mrs. Jay M. Boyd
Ms. Margaret F. Babbitt	Mr. and Mrs. Robert C. Braden
Ms. Velma N. Baldwin	Mr. James Brannan
Mr. and Mrs. Edward Balfour	Jo Anne Brasel
Mr. Fred C. Ballman	Mr. and Mrs. Robert A. Brechler
Miss Mary J. Barbee	Mr. and Mrs. Robert C. Breckenridge
Mr. Michael Barczak	Mr. and Mrs. Karl K. Breit
Mr. Jean L. Barker	Mr. and Mrs. John F. Breyer, Jr.
Ms. Janine F. Barre	Mr. and Mrs. Clemens B. Bribitzer
Mr. and Mrs. Richard L. Barr	Mrs. Arlene A. Brown
Captain Celia Barteau	Ms. Patricia L. Brown
Mr. Gene R. Bates	Mr. Steven Brummel
Mrs. W. P. Battell	Mrs. Wiley T. Buchanan, Jr.
Mr. Jeffrey D. Bauman	Mr. William H. Buchanan
Dr. David R. Bayless	Mr. Sheldon W. Buck
Mr. Ralph Beals	Mrs. Cora S. Buell
Mr. Charles Beer	Mr. and Mrs. Frederick P. Burgee
Ms. Marguerite Bender	Honorable Warren E. Burger
Mrs. Harriet F. Benson	Mr. and Mrs. Richard W. Burkhardt

Mr. and Mrs. R. L. Burnham, Sr.
Dr. and Mrs. James S. Burnham
Mr. and Mrs. Nicholas Bush
Mr. R. L. Butler, Jr.
Mr. Curtis E. Calder
Mr. Robert L. Carrel
Mr. and Mrs. Anderson Carter
Mrs. James B. Cartwright
Mr. John J. Cashmire
Honorable Elford A. Cederberg
Ms. Patricia Chamblin
Mr. Harvey Chapin
Mr. Harry R. Charles, Jr.
Mrs. Harold W. Cheel
Mrs. Allen D. Christensen
Mr. and Mrs. Everett N. Ciccone
Ms. Angelica L. Clagett
Mr. and Mrs. Page B. Clagett
Mrs. Charles S. Clark
Dr. and Mrs. Thomas A. Clark
Mr. and Mrs. Julius Cohen
Mr. and Mrs. Francis X. Coleman, Jr.
Honorable and Mrs. Silvio O. Conte
Mr. Mark N. Cookingham
Mr. Mark E. Cooper
Mr. Dallas M. Coors
Mr. and Mrs. Frederick D. Cornelius
Mrs. Louis Corson
Mr. and Mrs. Ralph J. Coselli
Mr. and Mrs. Curtis W. Cox
Mr. and Mrs. Earle M. Craig, Jr.
Ms. Joyce Creamer
Mr. and Mrs. Geoffrey Creede
Lt. Cdr. Wilmer H. Cressman
Mrs. C. D. Crocker
Mr. Eugene E. Crockett
Frances J. Cronin
Mr. and Mrs. Roy Cullen
Dr. Robert D. Cunningham
Mr. J. G. Cutler
Captain and Mrs. R. L. Daniels
Mr. and Mrs. Thomas R. Dashiell
Mr. L. Randall Daspit
Dr. T. G. Daughtridge
Mrs. Evelyn Y. Davis
Mr. and Mrs. F. Elwood Davis
Mrs. Jerry R. Davis
Mr. John E. Davis
Mr. and Mrs. Sam Dazzo, Sr.
Mr. and Mrs. Gregory W. Dean
Mr. Mel L. Decker
Mr. James L. Deegan
Ms. Martha J. Deem
Mr. and Mrs. Arthur F. Dellheim
Mrs. Deborah J. Denefrio
Ms. Danna Denning

Mr. Geert M. Deprest
Madame La Marquise Desurian
Mrs. Mary J. Deutschbein
Mr. and Mrs. James Dietz
Mr. T. A. Dietz
Mr. Douglas Dillon
Ms. Marna Disbrow
Mrs. Charles G. Dodge
Mr. Joseph F. Douglas
Mr. Karl Douma
Dr. and Mrs. Joseph S. Drage
Mr. and Mrs. David C. Dressler
Ms. Imogene S. Driscoll
Dr. Lucia J. Dunham
Mr. and Mrs. H. Stewart Dunn, Jr.
Mr. Robert Edelmann
Mr. Peter D. Ehrenhaft
Mr. and Mrs. Bart M. Eisner
Mr. F. H. Ellenberger
Mr. and Mrs. George T. Elmore
Mr. and Mrs. Gary Epstein
Dr. and Mrs. John Esswein
Mr. and Mrs. James G. Evans, Jr.
Cmdr. and Mrs. Thomas E. Fahy
Reverend Msgr. M.F. Farina
Mrs. Roland C. Fegan
Mrs. Ernest R. Feidler
Dr. and Mrs. Robert Feinberg
Colonel J. J. Felmley
Mr. Nicholas M. Ferriter
Mrs. Emily H. Fine
Mr. Ordell Fipps
Mr. and Mrs. Charles T. Fisher, III
Mr. Gordon J. Flesch
Colonel William J. Foody
Mr. and Mrs. Samuel C. Ford
Mr. and Mrs. Kenneth Foster
Mr. Benjamin Frank
Mrs. Charlton Friedberg
Mr. Cary J. Frieze
Honorable J. William Fulbright
Mr. Marion H. Furr
Captain and Mrs. J. E. Galloway
Honorable E. J. Garn
Mrs. Margaret H. Gauger
Miss Helen W. Giacobine
Mr. Wallace E. Giles
Mrs. J. A. Gill
Dr. and Mrs. Leonard M. Glassman
Dr. Louis Gluck
Honorable Robert F. Goheen
Mr. and Mrs. Fred T. Goldberg
Mrs. Susan S. Goldman
Colonel and Mrs. Julius Goldstein
Honorable and Mrs. Barry Goldwater
Mrs. Seabury S. Gould, IV

Mr. and Mrs. George C. Graham
Ms. Ruth C. Greenberg
Mr. and Mrs. Bernard Green
Dr. and Mrs. Crawford Greenewalt
Mr. Regis A. Greenwood
Mrs. Joseph B. Gregg
Mr. and Mrs. Victor W. Gumper
Mr. and Mrs. Frederick J. Haas
Mr. Theodore J. Hadraba, Jr.
Mr. Allen R. Halper
Mr. and Mrs. Kingsley W. Hamilton
Ms. Morella R. Hansen
Mr. Kurtz M. Hanson
Mr. and Mrs. William Harmon
Mr. Edwin F. Harper
Ms. Leslie S. Harrold
Dr. Caryl P. Haskins
Mr. David H. Hausmann
Mrs. Charles W. Hayes
Miss Annabelle Heath
Mr. and Mrs. David R. Heebner
Mr. and Mrs. Felder F. Heflin
Mr. and Mrs. John Dean Herman
Dr. William Herring
Ms. Gloria Hidalgo
Honorable A. Leon Higginbotham, Jr.
Mr. and Mrs. Edwin L. Hill
Mr. and Mrs. William J. Hines
Mr. and Mrs. Robert M. Hinton
Mr. James M. Hobbins
Mr. William P. Holcombe
Mrs. H. Houseman
Mr. and Mrs. George C. Hudspeth
Mrs. W. C. Huffman
Mrs. Carlisle H. Humelsine
Mrs. Elizabeth L. Hunter
Mr. and Mrs. William H. Hunter
Dr. John R. Jacoway
Mr. Reinhardt H. Jahn
Mr. Axel Jelstrup
Mr. and Mrs. Stifel W. Jens
Mr. and Mrs. David S. Jernigan
Mr. and Mrs. David D. Johnson
Mr. Ernest S. Johnston
Mr. John H. Johnston
Mr. and Mrs. Richard E. Jones
Mr. and Mrs. Samuel C. Jones
Ms. C. Parrish Kangiester
Mr. and Mrs. Kenneth E. Kerle
Mrs. Juliet F. Kidney
Mrs. Samuel C. Kincheloe
Mr. Stephen King
Dr. William M. King
Mr. William W. King
Dr. Kirby Kirksey
Mr. and Mrs. Jonathan Kislak

Mr. Karl D. Klauck
Mr. James M. Kline
Mr. and Mrs. Ronald J. Knecht
Mr. John W. Knowles
Ms. Janet Anastacia Krombar
Mr. John E. Kuenzi
Mr. David E. Kuhl
Mr. and Mrs. Conrad E. Kunkel
Miss Martha Ladd
Judge and Mrs. Marion Ladwig
Mr. William R. Lamb
Mr. and Mrs. Edward L. Lammerding
Mr. James H. Landers, Jr.
Mr. John F. Larison
Ms. Agatha Larson
Mr. and Mrs. John K. Laws
Dr. and Mrs. Jack M. Layton
Mrs. Hugh F. Leahy
Mr. Sperry Lea
Miss A. K. Lee
Mr. and Mrs. Elmore Leonard
Mrs. Eunice K. Lipkowitz
Mr. Robert J. Lockridge
Mr. C. Henry Lockwood, II
Mr. and Mrs. Walter M. Loeffler
Mrs. Katherine V. Lofstrand
Dr. Ursula G. Lohmann
Mr. and Mrs. H. M. Love
Mr. Robert B. Love
Mr. and Mrs. Schuyler Lowe
Mr. and Mrs. Theodore M. Lucas
Mr. and Mrs. Alan H. Lund
Mrs. John E. Lutz, II
Miss Louise Lutz
Mr. and Mrs. Ronald P. Lynch
Dr. George B. Mackaness
Ms. Helen J. Malmstead
Mr. and Mrs. Harry Mandil
Mrs. Robert Mannherz
Mr. Robert A. Marmon
Mr. and Mrs. John F. Marshall, Jr.
Mr. R. N. Marshall
Mr. and Mrs. Michael L. Martin
Mr. Benjamin L. Marx, Jr.
Dr. and Mrs. Ernest T. Mashiyama
Mr. and Mrs. Lloyd Z. Maudlin
Lt. Colonel Glenn W. Mayer
Mr. and Mrs. Gordon W. McBride
Mr. W.W. McCalla
Mr. Donald E. McCallister
Mr. E. J. McCormack, Jr.
Mr. Jack H. McCreery
Mr. and Mrs. John S. McDaniel, Jr.
Mr. Barnabas McHenry
Mrs. Martha McLaughlin
Mr. and Mrs. John D. McLean

Ms. Merrill McLoughlin
Mr. Paul B. McMahon, Jr.
Mr. James A. McNeese
Mrs. Ruth R. McRae
Mr. and Mrs. Wilbur T. Measley, Jr.
Mr. and Mrs. Robert S. Melville
Mrs. Rose Menz
Mr. Vincent Mercurio
Mrs. Ida C. Merriam
Mr. Paul D. Meyer
Ms. Carla Michaels
Ms. Mildred Middlekauff
Mr. and Mrs. Gordon K. Milestone
Ms. Edith J. Miller
Colonel and Mrs. James E. Miller
Mr. and Mrs. Stanley G. Miller
Mr. Warren G. Miller
Honorable Norman Y. Mineta
Honorable William E. Minshall
Ms. Laura A. Mitchell
Ms. M. Miyamoto
Mr. J. B. Montgomery
Ms. Claude Moore
Mrs. E. P. Moore
Mr. Frederick A. Moore
Mrs. Ann K. Morales
Dr. Edwin E. Morey
Honorable Robert B. Morgan
Mr. and Mrs. John H. Morison
Mr. W.F. Morrisette
Honorable and Mrs. Frank E. Moss
Senator Daniel P. Moynihan
Mr. and Mrs. James Mulshine
Mrs. Janet H. Murray
Mr. John M. Murray
Mr. Raymond A. Naimoli
Dr. Homer A. Neal
Mr. Robert L. Neff
Mr. and Mrs. Lawrence L. Nelson
Honorable Sharon T. Nelson
Mr. John H. Newell
Mr. and Mrs. Jack R. Newman
Mr. Scott Newton
Mr. Robert W. Ney
Mr. and Mrs. Richard A. Niles
Mr. and Mrs. Roger A. Nitto
Mr. John W. Norris, Jr.
Mr. Karl G. Nowak
Mr. Robert K. Oaks
Mrs. Alfred J. Olmo
Mrs. John Omaster
Mr. and Mrs. James Orouke
Mrs. Leah H. Owen
Mrs. James H. Parker
Mr. James W. Parks
Mr. and Mrs. David T. Parry

Dr. J. D. Patterson
Mr. William R. Patterson
Honorable Claiborne Pell
Mr. J. Roy Pennell, Jr.
Mrs. Thomas Perkins
Mr. John Perruzzi
Mr. Gene Perry
Miss Jacqueline Perry
Margaret Person
Mr. and Mrs. Robert T. Pfeiffer
Mr. and Mrs. James S. Picken
Mr. Steve Pike
Mr. and Mrs. Guy H. Pitts
Dr. Marjorie P. Pollack
Mrs. Donald T. Pomeroy
Mr. Ralph Porter
Mr. H. Posner, Jr.
Mr. and Mrs. Melville J. Price
Honorable and Mrs. J. Danforth Quayle
Mr. and Mrs. Paul Rawn
Mr. and Mrs. Michael F. Reagan
Ms. Nina Belle Redditt
Mr. and Mrs. William B. Reese
Mrs. Charlotte Rehberg
Honorable William H. Rehnquist
Mr. and Mrs. J. Donald Reilly
Dr. Terry N. Reynolds
Mr. Roy C. Rhinehart, Jr.
Mr. and Mrs. Charles S. Richards
Mr. and Mrs. Charles W. Richards
Mr. William W. Richardson
Ms. Ashley Ridgway
Miss Jean Roberts
Ms. Mary M. Roberts
Mr. and Mrs. George A. Robeson, Jr.
Mr. L. A. Roepcke
Mr. and Mrs. Robert E. Rogers
Mrs. J.S. Rose
Mrs. Nathan Rosenfeld
Mr. F. P. Rothenhoefer
Ms. Marya Rowan
Mr. and Mrs. H. J. Rowe
Mrs. William E. Royer
Ms. Marcia Rubenstein
Dr. Philip Rubovits-Seitz
Mr. and Mrs. Roy R. Russo
Mrs. Bennett Y. Ryan, Sr.
Mrs. J.J. Salter
Honorable James R. Sasser
Mr. Donald P. Saunders
Mr. and Mrs. Thorndike Saville, Jr.
Mr. Albert Sbar
Honorable and Mrs. James H. Scheuer
Mr. and Mrs. H. L. Schmelzer
Dr. and Mrs. Hans H. Schneider
Mr. and Mrs. Robert Schneider

Mr. Harold A. Schwartz
Mrs. Charles M. Scott
Mr. James J. Scott
Mr. and Mrs. Harold A. Serr
Mr. and Mrs. Joseph E. Seubert
Mr. Scott Shadle
Mr. Philip V. Sheehan
Mr. and Mrs. J. H. Sheffield
Mr. and Mrs. Gerard E. Shelton
Mr. F. J. Sherwood
Mr. Theodore J. Shively
Mr. George B. Shott
Mrs. Laura Devine Shown
Dr. Stefan Shrier
Ms. M. L. Sibley
Mrs. Manley H. Simons
Dr. and Mrs. Raymond A. Skeeahan
Mr. and Mrs. Gerald Slawewski
Dr. Harvey C. Slocum, Jr.
Mr. and Mrs. Bruce Smith
Mr. Charles E. Smith
Mr. Frank O. Smith
Mr. W. Y. Smith
Mr. Patrick Snead
Miss Ginny Sniegon
Mr. and Mrs. Thomas R. Sperling
Mr. and Mrs. Guy Sponseller
Mrs. V. Spratley
Mrs. Roger Squire
Mr. Ellwood C. Stang
Mr. R. N. Stefan
Mr. and Mrs. Robert B. Stephens
Mr. and Mrs. William O. Stewart
Dr. L. Dow Strader, Jr.
Mr. Jeffrey Sturgess
Mr. Harris M. Sullivan
Mrs. Arthur H. Sulzberger
Mr. David A. Sutherland
Mr. Louis W. Swann, Jr.
Ms. Mary Swanson
Mrs. Phelps H. Swift
Mr. and Mrs. M. Tambasco
Mr. R. Tevelde
Mr. Allen D. Thomas
Mr. H. D. Thompson
Mrs. B. W. Thoron
Mr. Stephen Tilton
Mr. Ernest M. Travis
Mr. George S. Trees, Jr.
Mr. Jose E. Trias
Mr. and Mrs. Donald O. Tucker

Mr. and Mrs. Charles A. Turner, III
Mrs. Jean A. Twitchell
Mr. Walter L. Vail
Mr. and Mrs. J. B. Vallandingham
Mr. Leroy J. Vanderwende
Mr. and Mrs. W. G. Vansant, Jr.
Dr. William C. Van Arsdell, III
Mr. Raoul M. Verhagen
Ms. Ada Vincent
Ms. Alice B. Vincilione
Mr. George W. Walburn
Mr. Theodore H. N. Wales
Mr. and Mrs. Frank S. Walters
Mr. F. B. Warder
Dr. Joe W. Ward
Mrs. Saul Warshaw
Mr. P. Devers Weaver
Mrs. Sylvia B. Weaver
Mr. V. Phillips Weaver
Honorable and Mrs. James E. Webb
Mrs. William S. Weedon
Mr. and Mrs. John F. Weersing
Mr. and Mrs. Emil P. Weilbacher, Jr.
Mr. and Mrs. Jack W. Wells
Mr. and Mrs. Irwin H. Wensink
Mr. and Mrs. Samuel Western
Mr. and Mrs. Richard H. Wherley
Colonel and Mrs. Grover C. White, Jr.
Dr. John P. Whiteley
Ms. Rita L. White
Mrs. B. A. Whitmarsh
Honorable Jamie L. Whitten
Mrs. Elizabeth M. Williams
Mr. J. Reid Williamson
Mrs. John M. Willits
Mr. and Mrs. Robert Willson
Mr. and Mrs. Morton H. Wilner
Mr. and Mrs. John L. Wilson
Dr. and Mrs. Ralph Wilson, Jr.
Mrs. Regina Wilson
Mrs. Harriet L. Wilt
Mr. and Mrs. David Wintermann
Mr. and Mrs. Payson Wolff
Honorable R. James Woolsey
Mrs. Jane Ludwig Worley
Mr. and Mrs. Nelson Wurz
Ms. Margaret J. Wyllie
Honorable Sidney R. Yates
Mr. Otto A. Zipf
Mr. and Mrs. Thomas E. Zitter

SPONSORING MEMBERS

Ms. Susan Absher
Mrs. R.E. Adams, Jr.
Colonel and Mrs. James D. Adams
Mr. and Mrs. Laurence J. Adams
Mrs. Barbara Jean Ageno
Ms. Doris D. Albert
Mr. and Mrs. Richard T. Alexander, Jr.
Mr. and Mrs. Donald C. Alexander
Mr. and Mrs. William C. Allbert
Mr. and Mrs. Alfred L. Allen
Mr. and Mrs. Carrol B. Allen
Mr. Ethan Allen
Ms. Katherine F. Allen
Mr. Robert H. Allen
Mr. Steven J. Allen
Mrs. T. Roosevelt Allen
Mrs. Carolyn Alper
Mr. and Mrs. Lambert E. Althaver
Mr. and Mrs. Roland Alvarez
Mr. and Mrs. Donald F. Ames
Mr. George J. Ames
Mr. and Mrs. Paul J. Amico
Mr. J. Donald Anderson
Mr. and Mrs. Paul B. Anderson
Mr. Thomas P. Andress, Jr.
Miss E. Pauline Annis
Ms. Rose C. Anthony
Dr. and Mrs. John T. Antolik
Miss Marcia Ann Appel
Mr. E. J. Archbold
Mr. Paul A. Archer
Miss Marie G. Argana
Mr. R. Arkin
Mr. Joseph P. Armstrong
Mr. William D. Armstrong
Ms. Helen J. Arthur-Dunn
Mr. J. Ashman, Jr.
Pat Jones and Associates
Mr. and Mrs. W.S. Atherton
Mr. Philip E. Atkinson
Ms. Jean M. Auel
Mrs. Francis Austin
Ms. Katherine G. Austin
Ms. Imogen E. Averett
Mr. and Mrs. Donald G. Avery
Mr. and Mrs. William I. Bacchus
Mr. Gordon N. Backlund
Dr. W.E. Badenhausen, Jr.
Mr. and Mrs. David A. Baerncopf
Mr. and Mrs. C.W. Bahan
Mr. Charles S. Bailey
Mr. and Mrs. Charles L. Bain
Mrs. Henry W. Baird
Mr. and Mrs. Lee H. Baker
Mr. and Mrs. Richard A. Baker
Mrs. Virginia B. Baker
Dr. and Mrs. Mark E. Ballinger
Mr. and Mrs. Mark J. Ball
Mr. and Mrs. George R. Ballowe
Captain and Mrs. Stuart M. Ball
Farmers State Bank
Mr. A. F. Banks
Mr. Walter Baranowski
Mr. Dwight H. Barnes
Mr. Julian L. Barnett
Mr. and Mrs. George L. Barquist
Mr. and Mrs. E. W. Barrett
Dr. and Mrs. Terrence J. Barry
Mr. and Mrs. Harry Bartell
Dr. and Mrs. Charles I. Bartfeld
Mr. and Mrs. Art Bartlett
Dr. Jordan J. Baruch
Mr. Gary L. Basham
Mr. and Mrs. Dorsey Baskin
Mr. A. Jossey Bass
Mr. and Mrs. W. H. Batie
Mr. and Mrs. Myron C. Baum
Mr. Robert D. Baynes
Mr. and Mrs. Anthony J. Bazza
Ms. Barbara Purse Beach
Mrs. Lloyd P. Beachy
Mr. John W. Bean
Mr. William H. Beardsley
Mr. R. Gifford Beaton
Mr. and Mrs. John M. Beaulieu
Mr. John R. Beaver
Mr. and Mrs. Allan Beckanstin
Mr. Eugene H. Beck
Honorable and Mrs. Berkley Bedell
Ms. Jeanne V. Beekhuis
Ms. Deanna Belcher
Mr. Lawrence P. Belden
Mr. Mickey Bell
Mr. and Mrs. Jack Bender
Mrs. Linda B. Bender
Mr. and Mrs. William R. Benham
Dr. and Mrs. David C. Benjamin
Dr. and Mrs. Richard W. Benjamin
Mr. Gregory Benkovic
Ambassador and Mrs. W. Tapley Bennett, Jr.
Mrs. Iona Benson
Ms. Rebecca J. Benton
Mrs. Robert A. Bergen
Ms. Marie Bergmann
Mr. H.J. Bergmans, Jr.
Dr. and Mrs. S. J. Berlin
Mr. and Mrs. Bernard Berman
Dr. Harold Berman

Mr. Samuel W. Bernheimer
 Mrs. Carol P. Berry
 Dr. William R. Bertelsen
 Dr. David Bick
 Mr. Joseph B. Bidwell
 Mr. Bruce Biggs
 Mr. Howard M. Bingham
 Mr. and Mrs. Donald Eric Black
 Mr. and Mrs. Cornelius Blackshear
 Mrs. V. Blaine
 Honorable and Mrs. Warren E. Blair
 Ms. Frances G. Blank
 Mr. James Blaser
 Mr. A. D. Blatnikoff
 Mr. Peter A. Bleyler
 Mr. and Mrs. Gordon H. Blume
 Mr. and Mrs. Emanuel Boasberg, III
 Ms. Enola V. Bode
 Mr. David Bodycombe
 Mrs. Curtis C. Bogart
 Dr. George P. Bogumill
 David Bonderman
 Mr. and Mrs. John Boppart
 Mr. and Mrs. F. J. Borowsky
 Mr. Robert M. Bosma
 Mr. Arthur D. Bosworth
 Mrs. T. Botsford
 Ms. Barbara C. Bottarini
 Ms. Therese C. Boulanger
 Dr. and Mrs. Maxwell Boverman
 Mr. George C.W. Bowles
 Mrs. Leland E. Bowman
 Mr. and Mrs. Alton Boyer
 Dr. Norman Boyer
 Ms. Maria Brabb
 Ms. Eugenie R. Bradford
 Mr. William G. Bradford
 Mrs. Anna E. Bradley
 Dr. and Mrs. Joseph F. Branda
 Mr. and Mrs. Calvin Brantley
 Mr. William E. Braunig
 Mr. William W. Bray
 Mrs. S. Brazil
 Mr. and Mrs. Roy Bremerman, Jr.
 Mrs. W. H. Bretzlaff
 Mr. and Mrs. Gene C. Brewer
 Mr. and Mrs. Lester L. Brewer
 Mr. Robert L. Bridges
 Mr. Linford L. Bright
 Ms. Linda S. Brisk
 Mr. and Mrs. Allan C. Brittle
 Mr. and Mrs. Ronald C. Britt
 Mr. Richard Brockman
 Mr. James E. Brodhacker
 Agnes Brodie
 Mr. John J. Brogan
 Mr. Jeffrey R. Broido
 Mr. Randall Brooks
 Mr. and Mrs. John A. Bross
 Mr. Albert Brown
 Ms. Edith Brown
 Ms. Elizabeth C. Brown
 Mr. and Mrs. Glen F. Brown
 Mr. Harold C. Brown
 Mr. and Mrs. Harry A. Brown, II
 Mr. L. Brown
 Mr. Lawrence D. Brown
 Mr. and Mrs. Ronald Brown
 Mrs. William R. Brown
 Ms. Deborah C. Brudno
 Mrs. Laurence Brunswick
 Mr. Dick Brush
 Mr. and Mrs. William L. Bryan
 Mr. and Mrs. Henry Bryndza
 Honorable and Mrs. Philip Buchen
 Mr. and Mrs. Frederic Buchner
 Mr. and Mrs. H. Paul Buckingham
 Mr. James Buck
 Mr. John E. Buckley
 Mrs. F. W. Bueche
 Lt. Cmdr. C. L. Buechler
 Mr. Steven A. Buehler
 Mr. Robert F. Bulens
 Mr. and Mrs. William B. Burdeshaw
 Mr. R.J. Burger
 Mr. and Mrs. James A. Burkart
 Mr. Carl A. Burkhart
 Mr. V. Burkman
 Mr. and Mrs. Frederick F. Burks
 Mrs. Poe Burling
 Mrs. Paul I. Burman
 Mrs. Diantha R. Burnett
 Mr. and Mrs. D. C. Burnham
 Lt. Colonel and Mrs. Robert M. Burnham
 Mrs. Laura W. Burr
 Mr. and Mrs. Philip S. Burr
 Miss Edna-Lea Burruss
 Mrs. Charles E. Burt
 Mr. and Mrs. Glenn F. Burton
 Miss Martha E. Burton
 Mr. T. G. Burzawa
 Mr. and Mrs. Edward J. Bush
 Mr. and Mrs. James T. Bush
 Dr. and Mrs. and Allan C. Bushnell
 Mrs. H.M. Busick
 Dr. and Mrs. James H. Butler
 Mr. and Mrs. Alfred C. Buxton
 Mr. Darcie Byrn
 Mr. W. Byrnes
 S. A. Cacciatore
 Mr. Dennis G. Cadena
 Mr. and Mrs. William Cafritz

Dr. and Mrs. Gary W. Cage
 Mr. and Mrs. Robert Cahill
 Mr. and Mrs. William M. Cahn, Jr.
 Mr. John R. Cain
 Mr. Toxey H. Califf
 Mrs. F. G. Cameron
 Mr. Kenneth S. Cameron
 Mr. John E. Cannaday
 Miss Helen R. Cannon
 Mr. Philip L. Cantelon
 Mr. and Mrs. and Aristide M. Capellini
 Mr. Albert I. Cardiff
 Mr. C. G. Carey
 Mrs. Phyllis H. Carey
 Mr. and Mrs. Lloyd E. Carnright
 Dr. John M. Carper
 Ms. Christine K. Carrico
 Mrs. Martha A. Carr,
 Ms. Cindi L. Carroll
 Mr. Walter D. Carr
 Mr. and Mrs. Waller Carson, Jr
 Mr. and Mrs. Leo A. Carten
 Colonel and Mrs. Douglas H. Carter
 Mr. Victor Cascella
 Mr. Jay A. Cashook
 Captain Edmund L. Castillo
 Mrs. James A. Cathcart
 Ms. Renata Cathou
 Dr. Charlotte Catz
 Mr. and Mrs. James E. Caudill
 Mr. and Mrs. Otis L. Cavender
 Mr. B. R. Cayward
 Ms. Colleen M. Chalker
 Dr. M.H. Chamberlain
 Dr. Ward A. Chambers
 Mrs. William A. Chapman
 Dr. Samuel Charache
 Ms. Cynthia M. Chase
 Mr. and Mrs. Boris E. Cherney
 Mr. Harry Chernoff
 Mr. and Mrs. Steven D. Cherry
 Mrs. Bernard P. Chewning
 Ms. Allene R. Chiesman
 Mr. John Childs
 Mr. Brian Chilton
 Miss Jean M. Chisholm
 Dr. and Mrs. Purnell W. Choppin
 Mrs. Betty Sams Christian
 Mr. Lawrence Chubet
 Mr. Roy T. Church
 Mr. James A. Church
 Mr. John C. Cini
 Mr. Ronald C. Cissell
 Dr. and Mrs. Charles H. Clark
 Mr. Edward J. Clarke
 Mrs. Robert L. Clarke
 Mr. George Clark
 Mr. H. Lawrence Clark
 Mrs. Robert L. Clausen
 Captain and Mrs. William E. Clayton, Jr.
 Mr. Fred Clements
 Mr. and Mrs. W. H. Clement
 Mr. B. F. Cloud
 Mr. James T. Clyde
 Mrs. Stephanie K. Coakley
 Mr. and Mrs. Charles F. Coates
 Mr. William H. Cochrane
 Ms. Leslie A. L. Coggins
 Ms. Linda L. Cogswell
 Mr. and Mrs. Norman H. Cohan
 Mrs. Helen H. Cohen
 Mr. James Coke
 Mr. and Mrs. Andrew L. Colb
 Mr. and Mrs. Richard D. Colburn
 Mrs. James M. Collins
 Mr. and Mrs. T. Clyde Collins, Jr.
 Mr. and Mrs. Philip L. Collyer
 Mr. Hugh F. Colvin
 Mr. William L. Coman
 Miss Bertita E. Compton
 Mrs. Herman Cone, Jr.
 Mrs. Ethel Conlisk
 Mr. Steven S. Conner
 Mr. Thomas Conners
 Dr. and Mrs. Philip Connolly
 Mr. David E. Conston
 Mrs. Camille L. Cook
 Ms. Lori Cooke-Marra
 Mr. and Mrs. Harold Cookson
 Mr. Vernon P. Cooley
 Mrs. Carolyn Coon
 Mr. and Mrs. James F. Cooney, Jr.
 Colonel John E. Coon
 Mr. and Mrs. H. Warren Cooper, III
 Ms. Janet B. Cooper
 Mr. John McGill Cooper
 Mr. John N. Cooper
 Mr. and Mrs. Lamot D. Copeland, III
 Mr. and Mrs. Thomas W. Coppock
 Mr. J. N. Corey, Jr.
 Mr. Henry G. Corey
 Dr. W. G. Corey
 Ms. Judith Corley
 Mr. and Mrs. George L. Cornell
 Mr. M.C. Cornell
 Dr. Danilo M. Coronel
 Dr. and Mrs. Walter H. Corson
 Mr. and Mrs. John J. Cotellese
 Mr. Dennis J. Cotter
 Mr. A. Cotts

Miss Jo Ann Cowan
Dr. Norman J. Cowen
Miss Mary L. Cox
Mr. John J. Coyne
Mr. and Mrs. David M. Crabtree
Mr. W. Crawford, Jr.
C.M. Crawford
Mrs. James Crittenden
Ms. Kathryn M. Crossgrove
Mrs. Margaret J. Crossgrove
Mrs. Richard S. Cross
Mr. John C. Crowe
Mr. and Mrs. Lawson Crowe
Mr. Cornelius J. Crowley
Mr. and Mrs. Joseph William Cuddy
Colonel and Mrs. R. J. Culhane
Mr. Gilbert W. Cullen
Mr. Robert L. Cummings
Mr. Charles A. Cunningham
Mr. Charles S. Curran
Mr. and Mrs. Gregory A. Curt
Mr. John Joseph Curtin
Dr. Roy Cutler
Mrs. Richard M. Cutts
Friar Felix Da Prato
Miss Margaret M. Dahm
Mr. Kevin B. Dalton
Mr. and Mrs. Robert L. Dalton
Ms. Ethel E. Danzansky
Mr. B. J. Daroga
Mrs. Leonore Daschbach
Mr. Madhavarao S. Dasu
Mr. Robert Davidson
Mrs. A. Davis
Mr. and Mrs. Barry C. Davis
Mr. and Mrs. Bernard E. Davis
Mr. John F. Davis
Mr. Robert Davis
Dr. T.S. Davis
General and Mrs. Kenneth F. Dawalt
Mr. E. A. Dawson
Mr. and Mrs. J. Edward Day
Mr. Craig M. Dean
Mr. Robert Dean
Mr. and Mrs. William J. Dean
Mr. and Mrs. Harold D. Decker
Mrs. Thomas Dedomenico
Mr. E.A. Defalco
Mr. Marvin Dekelboum
Mrs. G. F. Dekeyser
Mr. and Mrs. Ben T. Delahay
Captain and Mrs. Victor Delano
Mr. and Mrs. Joseph P. Dellinger
Mr. and Mrs. Andrew S. Deming
Dr. and Mrs. Lewis Hilliard Dennis

Mr. John Robert Denny
Colonel and Mrs. Joseph F. Derienzo
Mrs. Patricia B. Detor
Mr. Robert Jay Deutsch
Mr. G.W. Devoe
Mr. Larry Devries
Mrs. T. T. Dewolf
Mr. Burton Dezendorf
Dr. and Mrs. Paul F. Dickens, Jr.
Mr. John T. Dickmeyer
Mrs. Robert L. Dick
Mr. J. E. Diegelman
Mr. Fred J. Diemer
Ms. Margretta Diemer
Dr. Juliet C. Diller
Mr. Bruce C. Dillon
Mr. and Mrs. Joseph Dimuro
Mr. and Mrs. Ralph Dixon
Mr. William Dixon
Mr. Keith A. Dobbins
Mr. J. G. Dobry
Mrs. Walter W. Doescher
Mr. and Mrs. H. R. Dolstra
Ms. Joan Domike
Mr. and Mrs. Robert S. Donaghy
Mr. Henry T. Donahoe
Mrs. Lloyd Donant
Mr. Christopher J. Doozan
Mr. and Mrs. Robert Doragh
Mr. and Mrs. Donald A. Doran
Dr. William H.L. Dornette
Mr. and Mrs. Dennis E. Dorsch
Mrs. Joyce N. Dortch
Mr. Richard C. Dougherty
Dr. Susan S. Doyle
Mrs. Philip Drinker
Mr. and Mrs. Irene Du Pont, Jr.
Mr. and Mrs. David A. Duff
Mr. and Mrs. William E. Duke
Ms. Joanne E. Dumene
Mr. and Mrs. Walter W. Duncan
Mr. and Mrs. William T. Duncan
Mr. Bill Dunn
Mr. J.F. Dunwiddie
Mr. Wayne Durbin
Mr. and Mrs. Donn G. Dutcher
Mr. and Mrs. F. C. Duthweiler
Dr. and Mrs. Vernon J. Dwyer
Ms. Ann L. Dyke
Dr. and Mrs. William M. Eagles
Dr. Gary F. Earle
Mr. Terry J. Easton
Mrs. J. T. Eaton
Mr. and Mrs. Russell Eaton, III
Mr. Roy C. Eberle

Mrs. Greta Eckert
 Mr. J. R. Edinger
 Mr. and Mrs. John J. Edwards
 Ms. Mary Jane Edwards
 Mrs. Robert G. Edwards
 Mr. Paul Ehrenfest
 Mr. Joel Eisenberg
 Mrs. Harriet J. Eiwien
 Mr. Robert B. Eldridge
 Mr. David A. Elko
 Mr. Joseph H. Ellinwood
 Mrs. F. A. Elliot
 Mr. and Mrs. V.L. Elliott
 Mr. and Mrs. Paul G. Ellis
 Mr. and Mrs. Michael V. Elsberry
 Mr. John P. Elterich
 Dr. and Mrs. William L.R. Emmet, II
 Mr. Ostrom Enders
 Mr. Bernard Engel
 Mr. and Mrs. Richard England
 Dr. Michael J. Epstein
 Mrs. Jane M. Epstine
 Mr. Michael Erlanger
 Mstr. Sgt. Donald W. Erwin
 Mr. and Mrs. A. C. Escalle
 Mrs. Harold Eskew
 Mr. and Mrs. R. B. Estridge
 Mr. Louis Euster
 Mr. and Mrs. J. C. Evans, Jr.
 Mr. and Mrs. Bill G. Evans
 Mr. Douglas Evans, Jr.
 Miss Shirley M. Evans
 Mr. W. M. Evans
 Mr. and Mrs. Ross N. Faires
 Ms. Rose Ann Farace
 Mr. and Mrs. Francis W. Farley
 Mrs. Juanita Farnen
 Mr. and Mrs. Norman Farquhar
 Ms. Marilyn Farrand
 Mr. Robert N. Faust
 Mr. and Mrs. Jack K. Feirman
 Mr. Albert B. Ferguson
 Mr. and Mrs. John Ferguson
 Mr. Robert Ferguson
 Mrs. Rugeley Ferguson
 Mr. and Mrs. William L. Ferguson
 Reverend H. A. Ferrell
 Mr. Nathan L. Ferris
 Mr. and Mrs. Hart Fessenden
 Ms. Janet A. Fink
 Mrs. William W. Finley
 Mrs. A. F. Fischer, Jr.
 Mrs. Mary M. Fisher
 Mr. Robert B. Fisher
 Mr. James R. Fister
 Mr. and Mrs. M. F. Flaherty
 Dr. Ruth C. Flanagan
 Mr. and Mrs. Martin Fleit
 Mr. Gerold L. Fleming
 Dr. and Mrs. Lewis M. Flint
 Mr. Ted Flora
 Mr. Howard M. Flournoy
 Ms. Olivia Page Floyd
 Mr. Lawrence Fluke
 Mr. and Mrs. Paul Flum
 Mrs. Carol C. Foley
 Mr. and Mrs. L. D. Follmer
 Mr. Albert A. Folop
 Mr. and Mrs. Leon Forman
 Dr. R. P. Fornshell
 Mrs. Russell Fortune, Jr.
 Thyry Foundation
 Dr. and Mrs. Robert L. Fox
 Mr. S. Fox
 Mr. and Mrs. Jon David Francis
 Mr. and Mrs. Anthony M. Frank
 Mrs. Brantley Vernon Frank
 Mr. Stephen P. Frazier
 Dr. Robert G. Freeman
 Mr. William A. Freeman
 Ms. Mary M. Free
 Mr. Scott Freer
 Mrs. Marian M. Freese
 Dr. Donald E. Frein
 Mr. and Mrs. Donald B. French
 Mr. Andrew L. Frey
 Mr. and Mrs. T.E. Frey
 Mr. and Mrs. Carl Friddle
 Mrs. Charlton Friedberg
 Mrs. L. Louise Fried
 Ms. Virginia Friend
 Mr. and Mrs. Stephen F. Fromyer
 Mr. Frederick A. Fry
 Mr. and Mrs. W. L. Fugate
 Mr. Warren Fugate
 Mrs. H. Fuhrman
 Mr. Donald H. Fuhs
 Mr. and Mrs. A. E. Fuller
 Mrs. P. Fuller
 Mr. Reginald H. Fullerton, Jr.
 Dr. and Mrs. Paul A. Gade
 Dr. and Mrs. Edward E. Gahres
 Mrs. D.R. Gairing
 Mr. Vernon M. Gale
 De Maries H. Galitzki
 Mr. F. A. Gallagher
 Mr. Thomas J. Galligan, Jr.
 Mr. Frank L. Gambosh
 Dr. and Mrs. R. Don Gambrell, Jr.
 Mrs. Lillian T. Garber

Mr. Clement E. Gardiner
 Mrs. George R. Gardner
 Mr. and Mrs. Malcolm O. Garfink
 Mrs. Joy Garney
 Mrs. John M. Gates, Jr.
 Mr. and Mrs. Arthur Gauthier
 Miss Olga M. Gazda
 Mrs. Anita R. Geanakos
 Mr. and Mrs. Walter F. Geisinger
 Mr. B. Geismar
 Dr. Byron A. Genner, III
 Mr. and Mrs. Stanley Georges
 Mr. and Mrs. Arthur F. Gerding
 Mr. Kurt H. Germann
 Mr. and Mrs. Carl S. Gewirz
 Rear Adm. and Mrs. Ralph M. Ghormley
 Mr. A. Edward Giberti
 Mr. Fred O. Gibson, Jr.
 Dr. and Mrs. David M. Gibson
 Mr. and Mrs. Lincoln J. Gilbert
 Mr. and Mrs. William W. Gilbert
 Ms. Nancy V. Giles
 Mrs. Sara E. Gillis
 Mrs. Joan L. Gindes
 Mr. and Mrs. Louis Ginsberg
 Mr. and Mrs. Martin D. Ginsburg
 Mrs. D. J. Gladwin
 Mr. Ezra Glaser
 Mr. Errol M. Glasser
 Mr. and Mrs. George W. Gleim
 Mrs. C. Leslie Glenn
 Dr. and Mrs. Clarence Glenn
 Mrs. Charles C. Glover
 Mr. and Mrs. John B. Goering
 Mr. and Mrs. Paul N. Gohdes
 Mr. and Mrs. Arthur E. Goldberg
 Mr. Leslie H. Goldberg
 Mr. and Mrs. Raymond R. Goldberg
 Mr. John Golden
 Mr. Fred Goldsmith
 Mr. and Mrs. Eli Goldstein
 Mr. Stuart N. Goodman
 Mr. and Mrs. James F. Goodrich
 Miss Elinor Goodspeed
 Mr. and Mrs. Harvey L. Gordon
 Dr. Kenneth P. Gorelick
 Mr. David W. Gorham
 Mr. Joel C. Gorick
 Mr. James C. Gorman
 Dr. Richard E. Gorozdos
 Mr. O. J. Goun, Jr.
 Mr. and Mrs. William Gouldsbury
 Mr. James Gove
 Mr. Richard L. Grabowski
 Colonel and Mrs. Herbert Graeser

Mr. Christian V. Graf
 Miss Eunice Graham
 Mr. S. Grandits
 Dr. M.L. Oster Granite
 Mr. Harold D. Grant, Jr.
 Mr. Gerald W. Grantham
 Ms. C. Graton
 Lt. General and Mrs. Ernest Graves
 Mrs. Mary Graves
 Mr. William F. Graves
 Mr. and Mrs. Louis J. Grayson
 Mrs. Dorothy Green
 Dr. and Mrs. Joseph E. Green, II
 Dr. M. Jean Greenlaw
 Miss Joanne T. Greenspun
 Mr. and Mrs. Mark Greenwold
 Mr. Vilins G. Grencions
 Mrs. James T. Griffin
 Mr. Donald O. Grimes, Jr.
 Mr. Eugene W. Griner, Jr.
 Mrs. Steele T. Griswold
 Ms. Leslie A. Gross
 Mrs. Helen Grossman
 Mrs. Donald Gruhn
 Miss Mary K. Gully
 Mrs. Helen W. Gunderson
 Dr. and Mrs. Joseph I. Gurfein
 Mr. David L. Guthrie
 Mr. and Mrs. Tom Gwaltney
 Mr. Larry L. Haase
 Mr. Marc Haas
 Mr. and Mrs. Richard J. Haayen
 Mr. Charles P. Haber
 Mr. and Mrs. Richard H. Hagemeyer
 Miss Elizabeth P. Hagen
 Mr. Conrad R. Haglund
 Mr. Philip J. Hahn
 Mr. and Mrs. Richard G. Hahn
 Mr. and Mrs. Alexander S. Haig
 Mr. W. W. Halford, Jr.
 Mrs. Eloise Halliburton
 Mr. and Mrs. Maxwell L. Hall
 Mr. and Mrs. Samuel Halpern
 Mr. and Mrs. Milton Halsted
 Mr. M. Hamada
 Mr. and Mrs. Theodore M. Hamady
 Mr. Donald W. Hamer
 Colonel and Mrs. William T. Hamilton, Jr.
 Mr. and Mrs. Kenneth A. Hamman
 Mr. and Mrs. B. C. Hammock
 Mr. and Mrs. Charles W. Hammond
 Mr. and Mrs. Ronald W. Hamner
 Mr. J. S. Handler
 Mr. Norman G. Hansen
 Mr. and Mrs. Walter E. Hansen

Mr. and Mrs. Raleigh Hansl
Mrs. Kathryn W. Hanson
Mr. Charles C. Hansult
Mr. and Mrs. Gordon A. Hardy
Mr. John M. Harker
Mr. Jack R. Harlan
Dr. Robert A. Harper
Mrs. Lucy W. Harrell
Mr. C. J. Harrington
Dr. John M. Harris, III
Mr. Christie Harris
Dr. Garry Harris
Mr. Irving B. Harris
Mr. Gilbert A. Harrison
Mr. A.A. Hartley
Mr. and Mrs. Ernest B. Hartley
Ms. Janet W. Hartley
Mr. P.W. Hartloff, Jr.
Mrs. Pauline Hart
Mrs. William D. Hart
Mrs. W. M. Harwood
Mr. William H. Hastings
Mr. Dennis M. Haughney
Mr. and Mrs. Robert A. Hauslohner
Dr. and Mrs. Samuel B. Haveson
Miss Virginia H. Havrilka
Dr. Jeffrey W. Hawkins
Mr. and Mrs. James M. Hawley, III
Mr. Mones E. Hawley
Mrs. David Hayes
Mr. Kenneth C. Healy
Mr. and Mrs. E. H. Heaton
Mr. and Mrs. Edward A. Hebda
Mr. and Mrs. John W. Hechinger
Mr. and Mrs. Anthony E. Hecht
Mrs. Dale A. Hedges
Ms. Constance H. Hefferan
Mr. A. L. Heinrich
Mr. James W. Hellwege
Ms. Deborah W. Hemenway
Mr. Allyn B. Henderson
Mr. and Mrs. Douglas B. Hendrick
Mr. Willis M. Hengy
Ms. Ellen A. Hennessy
Mrs. Julia G. Hennessy
Miss Mildred Henninger
Mr. Robert A. Hennings
Mrs. Douglas E. Henriques
Mrs. W. F. Herbert
Mr. Karl F. Herd
Mr. and Mrs. Michael Herman
Mr. Arnold L. Hespe
Mr. C. A. Hess
Mrs. John L. Hess
Mr. and Mrs. John C. Hester, Jr.

Mr. and Mrs. Richard F. Hewett
Ms. Mary Jane Heyl
Mr. Donald R. Hibbert
Mrs. Geraldine Hicks
Mrs. Laura E. Hicks
Mrs. William L. Higgins
Mr. and Mrs. Stephen M. Hill
Mr. Wendell T. Hill
Mr. and Mrs. Roderick M. Hills
Mr. Charles W. Hinkle
Mrs. J. H. Ward Hinkson
Mr. Joseph U. Hinshaw
Mr. Miles L. Hinsley
Mr. Karl V. Hirschmann
Mr. and Mrs. R. E. Hirschman
Dr. S. R. Hobgood
Miss K. T. Hoffacker
Ms. Margaret M. Hoffman
Mr. and Mrs. C. W. Hogan
Brig. Gen. E. P. Hoisington
Mr. Duncan A. Holaday
Dr. and Mrs. Raymond T. Holden
Mr. and Mrs. A. Sidney Holderness, Jr.
Mr. and Mrs. Richard Hollander
Captain and Mrs. F.N. Holley
Mr. Milton C. Holloman
Mr. John W. Holloway
Mr. and Mrs. Franklin P. Holman
Mrs. Robert E. Holmgren
Mr. and Mrs. Robert C. Holsen
Ms. Evan C. Holstrom
Mr. and Mrs. E. R. Hommet
Mr. and Mrs. Daniel Honig
Mr. Willis H. Hooker
Mr. and Mrs. Richard Hook
Mr. David C. Hoover
Mr. and Mrs. Gregory Hopfer
Dr. and Mrs. Robert Hopkins
Mr. Robert Hopkins
Ms. Ann Hopping
Mr. James N. Horne
Mr. Charles Hosler
Mr. and Mrs. Paul L. Houts
Mr. Robert Howard
Mrs. Phyllis Kern Howe
Mr. and Mrs. Robert S. Hudgins, IV
Miss Nancy E. Hudson
Mrs. Hugo G. Huettig, Jr.
Mr. Robert R. Hughes
Mrs. Rosemarie J. Hughes
Ms. Evelyn L. Huisentruit
Mr. Clarence L. Hulford
Mr. and Mrs. A. D. Hulings
Ms. Jean M. Hulme
Mr. William R. Humphrey

Mr. E. C. Humphries
Mr. Jack B. Humphries
Mr. Frank Hunsicker
Mrs. Margaret Stuart Hunter
Mr. Jack A. Hunt
Ms. Emma Gade Hutaff
Ms. Barbara A. Hutchinson
Captain and Mrs. George Hutchinson
Ms. Marjorie P. Hutchinson
Mrs. Avis C. Hyde
Mr. Howard H. Ihlenfeld
Mr. and Mrs. John L. Ingersoll
Rear Adm. and Mrs. Walter D. E. Innis
Shaw Investment
Mr. and Mrs. J. C. Irby
Mr. and Mrs. Alfred Ireson
Mr. George Irving
Miss Anne M. Jacks
Mr. Ben Jackson
Mr. and Mrs. George A. Jackson
Dr. Jay A. Jackson
Mr. and Mrs. Donald Jacobs
Mr. Marlin L. Jacobs
Mr. and Mrs. Hans Jacobson
Ms. Shirley Jacobs
Mr. and Mrs. John M. Jacquemin
Mr. and Mrs. John Jaeschke
Dr. and Mrs. Jonathan Ravid Jaffe
Mr. and Mrs. William Jagoda
Mr. Albert Jankowitz
Mr. G. R. Janosko
Mr. Richard J. Jarzabek
Mr. and Mrs. J. Rukin Jelks, Jr.
Ms. Cynthia Jenison
Mr. and Mrs. David G. Jennings
Mr. Ludwig Jesselson
Mr. Richard A. Jewell
Colonel Alfred H. Johnson
Mr. and Mrs. Arthur W. Johnson
Mr. and Mrs. Bruce G. Johnson
Mr. Harald R. Johnson
Mr. Ray A. Johnson
Mr. Woodrow C. Johnson
Mr. H. Lewis Jones, III
Mr. H. Y. Jones, Jr.
Mr. Alfred Jones
Mr. Brian L. Jones
Mr. Buell B. Jones
Mr. Donald E. Jones
Mr. and Mrs. Guy W. Jones
Mr. James T. Jones
Mr. James E. Jones
Mr. and Mrs. John B. Jones, Jr.
Mr. Robert T. Jones
Mr. Thomas O. Jones

Mr. William J. Jones
Mr. and Mrs. L.R. Jordan
Mr. Robert E. Jordan
Mr. and Mrs. Michael Joseph
Mrs. Jean Joyner
Mr. and Mrs. Edward H. Judson
Mr. Forrest L. Junod
Mrs. Rosemary Bonar Kabel
Ms. Melanie L. Kacho
Mr. and Mrs. George W. Kahler
Mrs. Edmund J. Kahn
Mr. F. M. Kalenborn
Mr. John D. H. Kane
Mr. Raymond S. Kaplan
Mr. Steven Kaplan
Dr. and Mrs. Arnold Kaplin
Mr. Emanuel Karadimos
Dr. and Mrs. Richard A. Kaslow
Mr. and Mrs. Ira R. Katz
Mr. and Mrs. Jack Katz
Dr. and Mrs. Nathan Katz
Mr. and Mrs. Sheldon T. Katz
Mr. and Mrs. James P. Keane
Ms. Sheila A. Keefe
Mr. Frank S. Keene III
Mr. and Mrs. K. A. Keener
Mrs. Jane Simmons Keen
Mr. Peter Kehoe
Dr. Lewis A. Kellert
Mr. Karl E. Kelley
Mr. and Mrs. George A. Kelser, Jr.
Mr. and Mrs. George P. Kendall, Jr.
Mrs. R. Grace Kennelly
Mr. and Mrs. David T. Kenney
Mrs. Anna Marie Kent
Mr. B. R. Kent
Ms. Betty J. Kenyon
Mr. William Keohane
Colonel Tiu Kera
Mr. and Mrs. Robert Kerr
Dr. and Mrs. Louis J. Kettel
Mr. and Mrs. Arthur H. Keyes, Jr.
Dr. H. Norman Key
Mr. W. Ben Kibler
Mr. and Mrs. John Kicak
Mr. Robert Kidd
Ms. Marjorie B. Kiewit
Mrs. Jeannette Kimmel
Mr. Edward J. King
Mrs. Paul M. King
Mr. and Mrs. W. A. King
Mr. Edward O. Kinzie
Mr. and Mrs. Philip C. Kirby
Mr. E. J. Kirchman
Mr. Harry L. Kirkman

Mr. S. Kirkparick
 Mr. K. M. Kirkpatrick
 Mr. John W. Kirsch
 Mr. Lawrence Kirstein
 Ms. A. Kathie Kiss
 Dr. Benjamin F. Kitchen, Jr.
 Mr. John G. Kittredge
 Ms. Susan L. Klaus
 Mr. Daniel W. Klein
 Mr. Kenneth W. Klein
 Mr. Michael N. Klein
 Ms. Rebecca Klemm
 Mr. and Mrs. David R. Kline
 Mrs. Dorothy L. Klock
 Mr. L.S. Klotz
 Mr. W. Knaus
 Mrs. J. K. Knee
 Mr. M. G. Knerr
 Mrs. William Knight, Jr.
 Ms. Teresa Knoester
 Mrs. James H. Knowles
 Ms. Janet V. Koch
 Mr. and Mrs. Leonard R. Kojm
 Colonel George C. Konolige
 Dr. and Mrs. C. Ronald Koons
 Mr. Herbert J. Kopff
 Mr. A. George Koplou
 Ms. Bernadine C. Koprowski
 Dr. and Mrs. Marvin C. Korengold
 Dr. and Mrs. Ross Kory
 Mr. and Mrs. Thomas F. Kosciuszko
 Dr. Robert Kovar
 Mr. G. D. Kovener
 Mr. Charles R. Kraus
 Ms. Sandra R. Krawchuk
 Mr. and Mrs. Joseph J. Krebs, Jr.
 Mr. Irving Kreisberg
 Mrs. Gloria I. Kreisher
 Mr. and Mrs. William B. Kremens
 Mr. and Mrs. Michael A. Kriss
 Mr. V. J. Kriss
 Miss Karen E. Krueger
 Mrs. Leroy Krusi
 Mrs. G. F. Kugler, Jr.
 Dr. and Mrs. Max J. Kukler
 Mrs. William O. Kurtz, Jr.
 Miss Suzanne Kuser
 Mr. and Mrs. Frank A. Ladd
 Mr. and Mrs. Herman R. Ladenheim
 Mrs. Patricia K. Lafferty
 Dr. Robert M. Lambert
 Mr. and Mrs. Frederick W. Lamson
 Mrs. Ernest A. Land
 Mr. and Mrs. Emanuel Landau
 Ms. Marilyn Brody Lane
 Mr. Gerald Langford
 Dr. Gilbert H. Lang
 Mr. Richard F. Langston
 Mr. Tom Lankenau
 Colonel and Mrs. John V. Lanterman
 Mrs. Louis Lapi
 Mr. and Mrs. Peter Larocca
 Dr. and Mrs. Ray Lash
 Mr. and Mrs. Francis H. Laube
 Mrs. J. W. Laughlin
 Mr. Denny Law
 Dr. and Mrs. Noel Lawson
 Mr. and Mrs. Donald W. Layden
 Mr. and Mrs. Jack Leach
 Dr. and Mrs. Ronald E. Leach
 Mr. Clinton W. Ledebur
 Mrs. Florence J. Lee
 Mr. and Mrs. Jack W. Lee
 Mr. James A. Lee
 Mr. and Mrs. Jen P. Lee
 Mr. T. C. Lee
 Mr. and Mrs. M. Glen Leet
 Mr. and Mrs. W. G. Lefevre
 Mr. Edwin F. Legard
 Ms. Ellen R. Leighton
 Ms. Jeanne Lemmer
 Mrs. Ethelynn H. Leonard
 Mr. H. Leonard
 Mrs. Lawrence S. Lesser
 Mr. Daniel W. Leubecker
 Mr. Jan T. Leung
 Mr. Edgar L. Levenson
 Mr. and Mrs. Edward H. Levi
 Mr. and Mrs. William B. Levin, Jr.
 Mr. and Mrs. Michael Levitt
 Mrs. I. Herbert Levy
 Mr. and Mrs. Lawrence Levy
 Mr. and Mrs. Baugh Lewis
 Mr. Calvin G. Lewis
 Mr. and Mrs. Ernest E. Lewis
 Mr. Garry Lewis
 Mr. and Mrs. Paul D. Lew
 Ms. Irene R. Liebenberg
 Mr. and Mrs. Peter Liebesman
 Mr. and Mrs. Robert G. Liebhardt
 Mr. James R. Lightfoot
 Mr. J. R. Limes
 Mr. Wilbur Loren Lindholm
 Miss Jane T. Lingo
 Mr. and Mrs. Duard C. Linn
 Mr. and Mrs. Rodney C. Linton
 Mr. Robert F. Lint
 Ms. Anne Lipscomb
 Mr. and Mrs. Christopher Lipsett
 Mr. Robert S. Lipsey

Mr. and Mrs. Robert J. List
Mr. and Mrs. Darrel W. Litchfield
Mr. and Mrs. William O. Lively
Mrs. James Lloyd
Mrs. Pat Lockeby
Dr. and Mrs. John G. Lodmell
Dr. Arthur J. Loerzel
Mrs. Jane K. Lombard
Mr. Walter H. Long, Jr.
Mr. and Mrs. John Q. Long
Colonel and Mrs. Duarte A. Lopes
Mr. Kenneth B. Lord
Dr. and Mrs. Norman Lord
Mrs. Oswald B. Lord
Mr. and Mrs. Ken Love
Mr. J. Loveless
Mr. Bart W. Lovins
Mrs. E. H. Lowther
Mr. and Mrs. Harry D. Ludeman
Mr. Remy H. Ludwig
Mr. and Mrs. Wilbur A. Lunday
Mr. Clifford W. Lundin
Mr. and Mrs. Wendell Lund
Mr. R. Lushing
Mr. and Mrs. La Rue R. Lutkins
Mr. and Mrs. John L. Luttrell
Mr. and Mrs. Maurice B. Lynch
Mr. T. Lynch
Mr. and Mrs. William Lynch
Mr. Myles V. Lynk
Miss I. T. Lynn
Mr. and Mrs. E. Phillip Lyon
Mr. Jim R. Lyons
Ms. Catherine M. Maar
Mr. P.E. MacAllister
Mrs. M. W. MacDermott
Mr. Neil R. MacDonald
Mr. Watson MacInnes
Mr. and Mrs. Steven A. MacIntyre
Mr. and Mrs. Louis A. MacKenzie
Mr. James MacKinnon
Ms. Ellen B. MacNeille
Mrs. J. Macomber
Mr. and Mrs. Rex A. Maddox
Mr. Ralph K. Madway
Mr. and Mrs. Edward P. Maffitt
Ms. Dolores M. Maidlow
Dr. and Mrs. Leslie D. Major, Jr.
Mr. and Mrs. Dayton S. Mak
Dr. and Mrs. Bernard M. Malloy
Mr. and Mrs. Elli Malta
Dr. and Mrs. Randall C. Manaka
Mr. and Mrs. Eugene Mandel
Mrs. E.B. Mann
Mr. and Mrs. Paul Mannes

Mr. and Mrs. George C. Mansius
Mrs. A. Marcelle
Mr. Eugene A. March
Mr. and Mrs. Paul Margus
Mrs. Salvator G. Marino
Ms. C. S. Markson
Mr. Stanley Marks
Mr. and Mrs. D.B. Marshall
Mr. Kenneth S. Marsh
Mr. George H. Marston
Mr. Robert C. Marston
Mrs. Mildred H. Martindale
Dr. Diana Martin
Mr. and Mrs. Guy R. Martin
Mr. and Mrs. John Cephas Martin
Mr. Arthur Marush
Mr. Arthur K. Mason
Miss Priscilla Mason
Dr. Robert B. Matheny
Mrs. Elbert G. Mathews
Dr. and Mrs. M. Mathews
Mr. and Mrs. Larry Matre
Mr. Robert Matson
Mr. Charles Matthews
Mrs. J.D. Maurice
Mr. and Mrs. W. W. Maxey
Mr. and Mrs. George B. Maxwell
Miss Julia A. Maxwell
Mrs. R. B. Mayer
Mr. George D. Maynard, Jr.
Dr. and Mrs. Frederic B. Mayo
Mgen and Mrs. George Mayo, Jr.
Mr. and Mrs. Gerald Mayo
Dr. John E. Mazuzan, Jr.
Mrs. W. V. Mc Clain
Mr. James I. McAuliff
Ms. Nancy M. McCabe
Ms. Patrice L. McCabe
Mr. and Mrs. Thomas McCance, Jr.
Mrs. Violet McCandlish
Ms. June W. McCarron
Dr. Jeane McCarthy
Mr. James D. McClary
Mr. Bruce McClintock
Dr. David C. McClure
Mrs. Anne B. McCourt
Dr. Catherine F. McCoy
Mr. Emmett F. McCoy
Mr. John O. McCracken
Mr. Walter C. McCrone
Mr. and Mrs. A. Bliss McCrum, Jr.
Mr. and Mrs. Clayton McCuiston
Mr. Coy F. McDaniel, Jr.
Mr. Dale E. McDaniel
J. McDonald

Mr. and Mrs. John T. McDonnell
 Mrs. Nan Tucker McEvoy
 Mr. Samuel W. McGarvey
 Dr. and Mrs. Morris G. McGee
 Mr. and Mrs. Thomas McGinness
 Mr. William P. McGloin
 Mr. Howard L. McGregor, Jr.
 Mr. and Mrs. John McGuinn
 Mr. John McIntosh
 Dr. and Mrs. W. E. McIntyre
 Mr. W. J. McKeel
 Mr. William F. McKenna
 Dr. J. W. McKibben
 Mr. and Mrs. Albert P. McKinney
 Mr. Robert W. McKnight
 Mr. and Mrs. John H. McLaren
 Mrs. S. McMullen
 Mr. W. Hugh McNaughton
 Mr. W. C. McNeal
 Mrs. W. J. McNeil
 Mr. George M. McNulty
 Mr. M. McNulty
 Mr. R. V. McPherron
 Ms. Ann H. McShane
 Miss C. McWilliams
 Ms. Barbara J. Mead
 Mr. and Mrs. C.P. Mead
 Mr. and Mrs. David L. Mead
 Mr. James C. Meade
 Mr. and Mrs. Thomas Mears
 Mr. Frank Meek, Jr.
 Mrs. Roberta V. Meek
 Mr. Donald F. Mela
 Mr. and Mrs. Steven J. Melander-Dayton
 Mrs. Valere P. Menefee
 Mr. Louis W. Menk
 Mr. Leon A. Mensing
 Mrs. William H. Meroney
 Mr. John J. Meyer, III
 Mr. and Mrs. Charles E. Meyer
 Mr. and Mrs. Samuel M. Meyers
 Mr. W.W. Middleton
 Mr. David Mikolaj
 Cmdr. and Mrs. R. J. Miles
 Ms. Grace Milgram
 Mr. Lewis N. Miller, Jr.
 Mr. Carroll L. Miller
 Mr. Charles H. Miller
 Mr. Harvey L. Miller
 Mr. and Mrs. John L. Miller
 Mrs. M.G. Miller
 Ms. Margaret A. Miller
 Mr. R. Eric Miller
 Mr. and Mrs. Thomas C. Miller
 Mrs. George H. Milton

Dr. and Mrs. Michael H. Mishkind
 Mr. and Mrs. Donald M. Mitchell
 Colonel and Mrs. Robert O. Mitchell
 Mr. Walter W. Mitchell
 Mr. Ted F. Moellering
 Mr. and Mrs. Leo Molinaro
 Mr. R. W. Mompier
 Mrs. Sarah D. Monk
 Mr. M.R. Monroy
 Mr. Wilson M. Montero
 Mr. and Mrs. Robert M. Montgomery
 Mr. and Mrs. W.F. Montgomery
 Mrs. Christel K. Moore
 Ms. Joan Turner Moore
 Mr. and Mrs. Richard H. Moore
 Mr. and Mrs. John H. Morava
 Ms. Joyce Morgan
 Mr. Shane Moriarity
 Mr. and Mrs. Erwin Morley
 Mrs. Blanche M. Morris
 Ms. Firth Morris
 Mr. and Mrs. Hugh M. Morris
 Mr. J. C. Morris
 Mr. J. C. Morris, Jr.
 Ms. Rosanna Morris
 Mr. Arthur R. Morse, Jr.
 Mr. Erik N. Mortensen
 Dr. and Mrs. Samuel Moskow
 Dr. P. Steven Mote
 Mr. Richard C. Mousseau
 Rear Adm. and Mr. Douglas F. Mow
 Mr. Douglas Muder
 Dr. and Mrs. Gary L. Mueller
 Mrs. Gail W. Munder
 Mr. Burnaby Munson
 Dr. and Mrs. John C. Munson
 Mr. Don Murdock
 Mr. Gerald P. Murphy
 Mr. Gary A. Murrell
 Mr. E. H. Muschlitz
 Mr. and Mrs. Lawrence S. Myers, Jr.
 Mr. Raymond R. Myslivy
 Ms. Anastasia Nasis
 Mr. George Nassauer
 Mr. David N. Neal
 Mr. and Mrs. Robert D. Neary
 Mr. and Mrs. Benjamin C. Neff
 Mr. Robert H. Neff
 Mr. George E. Nelson
 Mr. and Mrs. Andrew K. Ness
 Mr. Conley W. Ness
 Mr. and Mrs. Paul W. Neuenschwander
 Mr. Harry Neugold
 Mr. and Mrs. Harry O. Neukomm
 Mrs. Frances Newman

Dr. Morris Newman
Mr. and Mrs. Palmer E. Newman
Lt. Colonel Arthur Newton
Mr. and Mrs. Kenneth E. Nicholl
Ms. Patricia I. Nichols
Mr. H. D. Nickerson
Dr. Orville F. Nielsen
Dr. and Mrs. Earl W. Niles
Mr. Paul H. Nitze
Mr. and Mrs. William Nitze
Mr. and Mrs. Roger M. Nolan
Mr. David G. Noonan
Mr. Carl F. Norden
Mr. W. R. Norfolk
Mr. C. Norman
Dr. Maurice J. Norman
Mr. and Mrs. Robert L. North
Mrs. John Norton
Mr. and Mrs. David P. Notley
Mr. Milton G. Nottingham, Jr.
Mr. Walter J. Novak
Mrs. Dorothy Nubel
Mr. Martin Nyberg
Ms. Eileen O'Brien
Mr. John A. O'Brien
Mr. and Mrs. William J. O'Connor
Mr. and Mrs. Bertram L. O'Neill
Mr. and Mrs. Denis T. O'Sullivan
Mr. Edward J. Obert, Jr.
Dr. and Mrs. Robert W. Oblath
Mr. Robert S. Oelman
Dr. S.W.J. Ogush
Mr. W. G. Ohde
Ms. Helen L. Ohler
Mr. Sam R. Olsen
Mr. Ted B. Olson
Mr. Richard Omohundro
Mr. P. Opdahl
Mr. Peter Oppmann
Mr. and Mrs. Guy H. Orcutt
Mrs. D.F. Orwig
Mr. and Mrs. David Osnos
Dr. Betty Ann Ottinger
Mr. and Mrs. Mandell J. Ourisman
Mr. James C. Overholt
Mr. Joseph H. Owen
Mr. J. C. Pace
Dr. and Mrs. Eugene F. Pack
Mr. Donald K. Palmer
Mr. and Mrs. Ralph A. Palmer
Dr. John R. Pancella
P. Panchal
Mr. and Mrs. Albert E. Parker
Mrs. Grace M. Parr
Miss Muriel H. Parry

Mrs. George E. Parsons, Jr.
Dr. and Mrs. J. R. Parsons
Ms. Mabel Parsons
Ms. Patricia S. Pascal
Mr. R. F. Paschall, Jr.
Mr. George Paterson, Jr.
Mr. Geoffrey L. Patton
Mr. and Mrs. James R. Patton, Jr.
Mr. James H. Paul
Mr. B. R. Paulsen
Ms. Sylvia L. Pearson
Mr. and Mrs. John R. Peaslee
Mr. C. L. Pecchenino
Mr. and Mrs. Alvin Peck
Mr. Robert Peck
Mr. Louis Peller
Mrs. Paul J. Peltier
Mr. Edmund Pendleton
Mrs. Thorn Pendleton
Mr. and Mrs. William C. Penick
Mr. Clarence Pennington
Mr. Bernard J. Perini
Mr. and Mrs. Warren A. Perkins
Mr. and Mrs. F. Alan Perlberg
Mr. and Mrs. Michael Perlberg
Ms. Dorothy F. Perry
Mr. James P. Perry
Mr. and Mrs. John F. Perry
Ms. Sandra J. Perry
Ms. Ann C. Petersen
Mr. Dalton E. Peterson
Ms. Samantha A. Peterson
Dr. John C. Petricciani
Mr. and Mrs. Gordon L. Petri
Mrs. Harold S. Pettit
Mr. James T. Pettus, Jr.
Mr. Cliff Pfaff
Ms. Rebecca L. Pfeiffer
Mr. A. Phillips
Miss Mary Jane Pickthall
Mr. Patrick Kent Pierce
Ms. Ellen Pilsecker
Mrs. Karen Pingitore
Mr. and Mrs. Harry W. Piper
Mr. and Mrs. William Piper
Lt. Colonel Charles D. Pitts
Mr. John Pitts
Ms. Elinor Plumack
Ms. Diane J. Plotts
Mr. Michael Plunkett
Mr. and Mrs. Welch Pogue
Mr. Robert D. Pomeroy
Mr. Leroy Poole
Mr. Daniel B. Pope
Ms. Janice Popp

Mr. and Mrs. Dwight J. Porter
Dr. Reno R. Porter
Mr. and Mrs. Ben Porto
Ms. Mildred Potocki
Mr. R.D. Potts
Mrs. George Poulson
Dr. and Mrs. William F. Pounds
Mr. and Mrs. Franklin E. Powell
Mr. Robert E. Pownall
Mr. Richard L. Prager
Ms. Fletcher Pratt
Mrs. Charles P. Price
Dr. Robert E. Price
Dr. and Mrs. Jerold Principato
Mr. and Mrs. Charles J. Prizer
Ms. Gloria Prochaska
Mr. and Mrs. John E. Purcell
Mr. L. A. Vander Putten
Ms. Marian L. Pyle
Mr. W. M. Quackenbush
Mrs. L. King Quan
Mr. T. Quinn
Mr. and Mrs. Charles Anton Rademaker
Mr. John A. Radway, Jr.
Ms. Audrey P. Raisbeck
Ms. Marjorie Ramsden
Mr. David A. Ransom
Mr. and Mrs. Coleman Raphael
Miss Ann Rasche
Mr. and Mrs. George E. Rassa
Mr. Philip Ratcliffe
Mr. and Mrs. Earl C Ravenal
Ms. Beverly A. Rawles
Ms. J. Raymond
Mr. Russell D. Raymond
Mr. W. Ray
Mr. and Mrs. Lawrence Raz
Mr. and Mrs. Patrick H. Reagan
Ms. Patricia Reardon
Mr. F.R. Rebsamen
Mr. and Mrs. Ralph H. Redford
Vivien G. Redman
Mr. Atlee J. Reeb
Mr. Rollin M. Reeder
Mr. and Mrs. Robert Reeves
Mr. David B. Reif
Mrs. Joan Reilly
Dr. Michael J. Reilly
Mr. Lawrence F. Reinalter
Mr. Paul A. Renard
Mrs. Edwin F. Rensler
Dr. and Mrs. F. Turner Reuter
Mr. and Mrs. J. C. Reynierse
Mr. Don F. Reynolds
Mr. Frank C. Reynolds, Jr.

Mr. Frank M. Reynolds
Mr. Robert Reynolds
Mr. and Mrs. John V. Rhoads
Mr. R. L. Rhodes, Jr.
Miss Kathleen Ribaud
Mr. Allen Richards
Mr. E. Jerome Richards
Dr. Arthur L. Rich
Ms. Melissa J. Richens
Mr. G.R. Rich
Miss B. A. Richmond
Mr. and Mrs. Thomas T. Richmond
Mr. Charles Rick
Mr. Daniel M. Ricker, Jr.
Ms. Carolyn Ricketts
Mr. Edward H. Riddle
Mr. Richard D. Rife
Mr. John R. Rimmer
Dr. J. Jerome Rinaldi
Miss Marilyn Rising
Mr. Stephen C. Robbins
Mr. and Mrs. Chalmers M. Roberts
Ms. Ruth Roberts
Mrs. Grace Robinowitz
Mr. and Mrs. F. L. Robinson
Mr. and Mrs. Ray Robinson
Mrs. Doris Selene Rockefeller
Mrs. Richard Rodgers
Mr. and Mrs. Albert K. Roehrig
Mr. Dietrich Roesler
Mr. Scott Roeth
Mr. Don Rolf
Ms. Mimi Rolland
Judge and Mrs. Herbert L. Rollins
Mr. Alan R. Rollow
Mr. and Mrs. Robert W. Root
Mrs. M. Elaine Roschman
Mr. Irving Rose
Mr. and Mrs. John M. Rose
Mr. and Mrs. Robert Rosenthal
Mr. and Mrs. Raymond T. Rose
Mr. J. W. Roskos
Mr. and Mrs. David W. Ross
Dr. S. Rossello
Mr. and Mrs. Howard W. Rosser
Mr. James Bruce Ross
Mr. John J. Ross
Dr. James A. Roth
Ms. Janice K. Rothlauf
Mrs. Elizabeth D. Rott
Ms. Catherine G. Rottier
Dr. James A. Rourke
Mr. and Mrs. Josiah P. Rowe
Mr. and Mrs. Thomas E. Rowland
Mr. and Mrs. James M. Rowley

Mr. Charles Rozier
 Mr. B. Cecil Rubin
 Mr. and Mrs. Gerald M. Rubin
 Mrs. Pat Rucker
 Mr. and Mrs. Frank L. Rugani
 Mr. and Mrs. Arthur R. Rule
 Mr. J. W. Runyon, Jr.
 Mr. Jasper L. Russell
 Dr. Edward C. Ruth
 Mr. and Mrs. John M. Ryan
 Dr. Stephen K. Rymer
 Dr. and Mrs. Abner Sachs
 Dr. H. Pagan Saez
 Mr. and Mrs. Arnold Sagalyn
 Mr. Lou Sakell
 Mr. and Mrs. Richard H. Salz
 Dr. Arthur Sandstrom
 Mr. A. Herbert Sandwen
 Mr. Nilo M. Santiago
 Mr. and Mrs. Christopher S. Sargent
 Mrs. Stanley J. Sarnoff
 Mr. and Mrs. Stuart M. Satterwhite
 Mr. and Mrs. Theodore Sawick
 Mrs. Lillian M. Saxe
 Alice E. Sayre
 Mr. Francis B. Sayre
 Mr. James P. Scannell
 Mr. Ernst M. Schaefer
 Mr. William F. Schaper
 Mrs. Henry W. Scheibner
 Mrs. Robert S. Scheu
 Mr. and Mrs. J. Vincent Schlegel
 Miss Matilda P. Schlicht
 Dr. and Mrs. S. P. Schmal
 Mr. and Mrs. Eugene R. J. Schnabel
 Miss Marguerite V. Schneeberger
 Ms. Margaret M. Schneider
 Dr. William H. Schneider
 Dr. Sid Schnoll
 Mr. James E. Scholl
 Ms. Alice Schonberg
 Mr. D. L. Schroeder
 Mr. and Mrs. J. Schroeder
 Mr. John C. Schuldt
 Mr. and Mrs. Martin L. Schulman
 Mrs. Robert A. Schulman
 Mr. Robert Schwaner
 Dr. Edward H. Schwarz
 Mrs. M. Schwetz
 Mr. and Mrs. Philip C. Scibilia
 Ms. M. B. Scott
 Mr. and Mrs. Robert M. Scott
 Mr. Bernard L. Scriven
 Mr. Robert F. Scudder
 Mr. David C. Searey
 Mr. H.D. Sears, Jr.
 Dr. Mary E. Sears
 Mr. and Mrs. Richard E. Seidell
 Mrs. Gerald H. Seifert
 Mrs. Ruth O. Selig
 Mr. and Mrs. Harold J. Selinsky
 Mrs. Catherine H. Sells
 Mr. William M. Senkus
 Mr. Harry Severin
 Ms. Catharine Seybold
 Mr. and Mrs. Paul A. Shackelford
 Mrs. Polly Shackleton
 Ms. Elaine G. Shafrin
 Mr. Kevin E. Shanahan
 Ms. Karen S. and G. Shapell
 Mr. and Mrs. Philip H. Sharpe
 Mr. and Mrs. Paul M. Shatz
 Dr. Daniel L. Shaw, Jr.
 Mr. and Mrs. Allen C. Sheldon
 Mr. and Mrs. Charles C. Shelleman, Jr.
 Dr. and Mrs. R. M. Shepard
 Mr. and Mrs. Gerald A. Sheppard
 Mr. and Mrs. George E. Sherman
 Mr. and Mrs. Norman Sher
 Miss Katherine Shilling
 Mr. Rufus Shivers
 Mr. Albert D. Shmutzer
 Mr. and Mrs. Jack C. Shnyder
 Mrs. Ross K. Shoolroy
 Mr. and Mrs. Felix F. Shore
 Mrs. S.C. Shortlidge, Jr.
 Mr. Robert H. Short
 Mr. Roy Shrobe
 Mr. Harley F. Shuford, Jr.
 Mr. Carl J. Shuh
 Lt. General and Mrs. Philip D. Shutler, USMC
 Mr. W. Leonard Sibley
 Ms. Martha F. Siccardi
 Mr. and Mrs. Irving H. Siegel
 Mr. and Mrs. Jack Silberman
 Mr. and Mrs. and Robert W. Siler, Jr.
 Mr. Russell L. Sill
 Mr. Richard Sills
 Dr. A. E. Silver
 Colonel and Mrs. Robert L. Simmons
 Mr. and Mrs. Michael E. Simon
 Mr. Raymond Simon
 Miss Alice H. Simpson
 Mr. Andrew Warren Singer
 Mr. and Mrs. Joe L. Singer
 Mr. Richard Singer
 Mr. and Mrs. Robert Skold
 Mr. and Mrs. Paul Slezak
 Mr. Richard C. Sloan
 Mrs. Walter W. Slocum

Mr. and Mrs. Leon Sloss
Ms. Jennifer Small
Mr. and Mrs. James F. Smith, Jr.
Mr. Benjamin K. Smith
Mr. and Mrs. Cecil Smith
Mr. and Mrs. Dean Smith
Mr. Dean B. Smith
Mr. Edward M. Smith
Ms. Ella E. Smith
Ms. Frances Z. Smith
Mr. Joseph C. Smith
Ms. Luella A. Smith
Mr. Raymond S. Smith
Mr. and Mrs. Rufus C. Smith
Mr. and Mrs. Stevan B. Smith
Mr. Thomas F. Smith
Mr. W. Tilford Smith, Jr.
Mrs. Witham Smith
Mr. Howard F. Smothers
Dr. George E. Snider, Jr.
Mr. John B. Snyder
Mr. W. P. Snyder, III
Mr. and Mrs. William B. Snyder
Mr. and Mrs. Norman Solat
Mr. David Solo
Mr. William H. Somerville
Honorable and Mrs. Soren C. Sommerfelt
Ms. Lynn A. Soukup
Mr. and Mrs. R. C. Soxman
Mr. George R. Spall
Mr. and Mrs. John L. Sparks
Mrs. Sylvia Spar
Mr. and Mrs. Donald A. Spear
Mr. H. Speer
Mr. Mark Speizer
Mr. Harry H. Spence
Mr. Fred Spinder
Mr. and Mrs. William H. Spooner
Mr. L. Spozais
Mrs. J. Spurlock
Mr. Omer F. Spurlock
Mr. Franklin M. St. John
Ms. Virginia Stainton
Mr. and Mrs. Marvin N. Stanford
Mrs. Carl W. Stapleton (Ret.)
Mr. David A. Stark
Mr. Donn A. Starry
Mr. and Mrs. Ralph C. Stayer
Mr. and Mrs. Frederick R. Stebbins
Mr. Simon Steely
Mr. William R. Stehle
Mr. and Mrs. Stephen R. Steinbrink
Mr. and Mrs. John M. Stemmons
Mr. and Mrs. William L. Stenger
Mr. and Mrs. Charles R. Stephan

Dr. Peter J. Stephens
Mr. and Mrs. Warren E. Stephey
Mr. W. Clinton Sterling, III
Ms. Abigail Sterling
Mr. Bruce B. Sterling
Mr. and Mrs. Carleton W. Sterling
Mr. Douglas D. Sterling
Mr. and Mrs. William Sternfeld
Mr. and Mrs. Edwin L. Stevens
Mr. Jay Stevens
Dr. Roland E. Stevens
Ms. Suzanne E. Stevens
Mr. and Mrs. Charles W. Stewart
Mr. and Mrs. Terence P. Stewart
Mr. and Mrs. Eugene P. Stichman
Mr. and Mrs. Richard W. Stickell
Mr. and Mrs. Glen E. Stillwell
Mr. and Mrs. John E. Stinchfield
Mr. Philip B. Stiness, Jr.
Mr. and Mrs. Frank A. Stocking
Mr. and Mrs. Dennis W. Stollendorf
Mr. Robert A. Stone
Mr. and Mrs. John Strachan
Mr. Virgil R. Strader
Mr. and Mrs. S. Tudor Strang
Mr. and Mrs. John G. Strange
Mr. and Mrs. Richard H. Stratton
Mr. David G. Stuart
Mrs. Hosmer B. Stuck
Mr. William T. Stumb
Mr. John A. Sturm
Mr. Arthur Stutzer
Dr. and Mrs. J.M. Sudarsky
Mr. and Mrs. Steven C. Suddaby
Mrs. A. C. Sulerud
Mr. Ed Sullivan
Mr. Vincent M. Sullivan
Mr. Paul L. Sulsky
Mr. John Sutch
Dr. Wilson A. Swanker
Dr. Russell Swanson
Mr. and Mrs. Harold E. Sweeney
Mrs. Barbara D. Sweetland
Ms. Mary R. Swicegood
Mr. Albert L. Symonds
Mr. W. Warren Taltavull
Mr. Darrell G. Tangman
Ms. Nancy Tarsitano
Mrs. Delle Ernst Taylor
Mr. John Taylor
Ms. Robyn D. Taylor
Mr. Rowan H. Taylor
Mr. W. H. Taylor
Mrs. R. Teerlink
Mr. Roy Teramoto

Mr. Joseph M. Tessmer
 Mr. and Mrs. James W. Tester
 Mr. Norman R. Thal, Jr.
 Mr. and Mrs. Harper Thayer
 Mr. Alan Thebert
 Mr. and Mrs. Paul F. Thiele
 Mr. Barry Dan Thomas
 Mr. Edmund Thomas
 Dr. F. Joseph Thomas
 Mr. and Mrs. Holcombe H. Thomas
 Ms. Marcia A. Thomas
 Mr. Bruce R. Thompson
 Captain and Mrs. Edgar K. Thompson
 Mr. and Mrs. Edward L. Thompson
 Mr. and Mrs. James L. Thompson
 Ms. Mims Thompson
 Mr. and Mrs. D. H. Thomson, Jr.
 Mrs. Margot K. Thomson
 Mrs. Veronica Thorp
 Mr. and Mrs. Robert P. Tibor
 Mr. and Mrs. John T. Tielking
 Ms. Barbara L. Tierney
 Mrs. L. E. Tierney
 Miss Catherine Tinkham
 Mr. H. Titchell
 Mr. Hartley K. Todee
 Ms. Rosalie Toko
 Mr. Toshio Tokunaga
 Mr. D. J. Tolan
 Mrs. Araks V. Tolegian
 Mr. Leroy M. Tolman
 Mr. and Mrs. Wilbur L. Townsend
 Mr. and Mrs. F. Gerald Toye
 Mr. Adrian G. Traas
 Honorable and Mrs. Russell E. Traen
 Mr. and Mrs. Francis R. Trainor
 Mr. and Mrs. Anthony Tralla
 Mr. R.F. Trefielo
 Mr. Edmond R. Tremblay
 Mr. and Mrs. Bryan Troutman
 Mr. Edward Trowbridge
 Mr. and Mrs. R. Brian Tsujimura
 Mrs. Pat Tuccio
 Mr. Ernst H. Tuenge, Jr.
 Mrs. James N. Tulloh
 Mr. Robert L. Tull
 Ms. Eva F Tully
 Mr. W. T. Turso
 Mr. and Mrs. William S. Tutwiler
 Ms. Evelyn Twigg-Smith
 Mr. Glenn A. Ulrich
 Mr. and Mrs. John A. Ulrich
 Mrs. George C. Underwood, II
 Mr. R. E. Uptegraff, Jr.
 Dr. Paul L. Urban

Mr. Donald Usher
 Mr. T. Uyesugi
 Mr. Vainutis K. Vaitkevicius
 Mr. and Mrs. Anthony S. Vaivada
 Mrs. C. W. Valencourt, Jr.
 Mr. J.H. Valentine
 Mr. Robert Vallier
 Dr. Paul Van Fossen
 Mr. Ray E. Vanalstine
 Mrs. F. B. Vandenburg
 Mr. August Vandessel
 Mr. and Mrs. Richard C. Vandusen
 Mr. and Mrs. Carl F. Vanhaefsten
 Ms. Caroline E. Vanmason
 Mr. and Mrs. John A. Varela
 Mr. and Mrs. Armen Varteressian
 Mr. Samuel M. Vauclair, III
 Mrs. Franklin Veatch
 Ms. Natalie D. Venneman
 Mr. and Mrs. James L. Ventura
 General John W. Vessey, Jr.
 Dr. John J. Vill
 Mr. Victor J. Villone
 Dr. M. C. Vincent
 Mr. and Mrs. Raymond D. Vinick
 Ms. Jacquelyn E. Vinson
 Mr. and Mrs. Donald J. Vitale
 Mr. and Mrs. Peter R. Voll
 Mrs. Valma A. Von Holt
 Mr. and Mrs. Gerard J. Vyskocil, Jr.
 Ms. Jill R. Wade
 Dr. Woodward Waesche
 Ms. M.G. Waggoner
 Mr. W. A. Waggoner
 Mr. David H. Wagner
 Mr. Paul F. Wagner
 Dr. and Mrs. Peter E. Wagner
 Mr. Bert Waldstein
 Mr. and Mrs. James N. Wallace
 Mr. Wayne D. Walling
 Mr. John O. Wallor
 Mr. and Mrs. Harry B. Walton, Jr.
 Dr. Alan B. Wambold
 Mr. Fred Wanner
 Mr. and Mrs. Robert B. Wareheim
 Mr. and Mrs. C. Grant Warner
 Mr. Ernest W. Warner
 Mr. and Mrs. George E. Warner
 Mrs. George F. Warner
 Mr. John Warner
 Mr. Richard Warren
 Ms. Ruth G. Wasley
 Mr. and Mrs. Paul Wasserman
 Mr. B. Y. Wat
 Dr. Barbara Waters

Miss Eva Watkins
Captain Jack E. Watson
Ms. Mildred V. Watts
Mr. H. Wayne Weagly
Mr. and Mrs. John E. Weaver
Mrs. Ruth L. Webb
Mr. Glenn I. Weber
Mrs. Arvid G. Wedin
Mr. and Mrs. Edward Weinberg
Mrs. Marjorie Weinberg
Mr. and Mrs. Eric W. Weinmann
Mr. and Mrs. Herman W. Weinreich
Mr. Edgar V. Weir
Mr. Leonard W. Weis
Mr. J. R. Weiss
Mr. and Mrs. Joseph A. Weiss
Mr. Douglas F. Welebir
Mr. Charles E. Wells
Ms. Katherine E. Welsh
Mr. and Mrs. Terry Welsh
Mr. and Mrs. P.A. Wentz
Ms. Barbara K. Werner
Mr. Gerald L. Werner
Mr. Stuart L. Werner
Captain J. H. Wesson, USN, (Ret.)
Mr. and Mrs. James T. West
Miss Hilda Wexler
Ms. Gwendolyn S. Wharton
Ms. Barbara W. Whitaker
Ms. Jaan Whitehead
Mr. John B. Whitehead
Mr. and Mrs. Peter C. White
Mr. James H. Wiborg
Mrs. Mary S. Wicker
Mr. and Mrs. Leonard A. Wien
Ms. Mary Ellen Wiggs
Mr. and Mrs. Joseph M. Wikler
Mr. L. H. Wilcox
Dr. and Mrs. U. V. Wilcox, II
Mrs. Vivian Wildman
Dr. and Mrs. Douglas W. Wiley
Mr. Mark H. Wiley
Mrs. Gladys E. Willard
Mr. Karl H. Willen
Mr. Andrew W. Williams
Mr. and Mrs. John M. Williams
Mr. and Mrs. Kenneth R. H. Williams, Jr.
Mr. and Mrs. Robert A. Williams
Mrs. Wanda Rees Williams
Maj. Gen. and Mrs. Ellis W. Williamson
Dr. B. Willis
Mr. and Mrs. Vernon B. Willis
Mr. and Mrs. W. Cooper Willits
Ms. Jean M. Willkom
Mr. Charles F. Willner

Mr. William F. Willner
Mr. William Willoughby
Ms. Louise W. Willson
Captain Lucille A. Wilson
Mr. F.A. Wilson
Mr. Hugh H. Wilson
Mr. James M. Wilson
Ms. Janice L. Wilson
Mr. Lowell Wilson
Mr. and Mrs. Perkins Wilson
Mr. Peter Wilson
Dr. and Mrs. Richard B. Wilson
Mr. and Mrs. Roger H. Wingate
Mr. R. T. Winn
Mr. Donald R. Winslow
Mr. John Winters
Ms. Joan Wirig
Mr. James D. Wirt
Mr. Robert Wissoker
Mrs. H. Witmer
Mr. Phelps Witter, Jr.
Mr. and Mrs. William W. Wittie
Mr. J. Wolfgang, Jr.
Mr. and Mrs. Leland A. Wolf
Mr. and Mrs. Thomas P. Wolf
Mr. and Mrs. William T. Wolf
Mr. Gary L. Wollenzien
Mr. and Mrs. Stanton Wong
Mrs. Margaret Y. Woodbridge
Mr. Baird Woodcock
Mr. David L. Wood
Mr. and Mrs. and Harry E. Wood
Mr. Marshall D. Woods
Dr. Thomas P. Wood
Captain and Mrs. John Woolston
Mr. James O. Wright
Mr. and Mrs. Philip L. Wright
Dr. Reverdy E. Wright
Mr. Walter R. Wright
Mr. and Mrs. Bernard J. Wulff
Mrs. Charlotte S. Wyman
Mr. and Mrs. Verlin Y. Yamamoto
Mr. Bruce Yamanaga
Mr. and Mrs. Philip D. Yaney
Mrs. Dolores R. Yanover
Mr. Charles Yarbrough
Mr. Louis A. Yates
Mr. and Mrs. Michael S. Yauch
Mr. Ronald Yeakey
Mr. and Mrs. Gary B. Yost
Mr. and Mrs. Albert T. Young
Dr. and Mrs. Gerald D. Young
Miss Jane B. Young
Mr. L. J. Young
Ms. Nancy A. Young

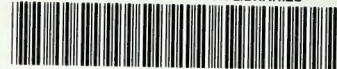
Ms. Shereen Zakauddin
Mr. and Mrs. Howard M. Zaritsky
Dr. and Mrs. Berton Zbar
Mr. and Mrs. Fred M. Zeder

Colonel Frank J. Zeller
Dr. and Mrs. Robert Zeppa
Mr. and Mrs. Edwin Zimmerman
Mr. Louis I. Zorensky





SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01630 8249