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Prestigious NIH Director's Pioneer and New Innovator Awards

Dr. James Eberwine, the Elmer Holmes Bobst Professor of Pharmacology and co-director of the Penn Genome Frontiers Institute, has been awarded the National Institutes of Health Pioneer Award, which will provide \$2.5 million over the next five years. Dr. Aaron Gitler, assistant professor of cell and developmental biology, has been awarded the NIH New Innovator Award, which will provide \$1.5 million over the same time frame.

Dr. Eberwine investigates how single neurons work in the context of surrounding cells and how this relates to the emerging field of RNA-based therapeutics. Dr. Gitler studies yeast cells to define mechanisms of neurodegenerative diseases and screen for new treatment targets.

"These programs are central elements of NIH efforts to encourage and fund especially novel investigator-initiated research, even if it might carry a greater-than-usual degree of risk of not succeeding," said NIH Director Dr. Elias A. Zerhouni, on the aim of the Pioneer and Innovator awards. "The awards also reflect our goal of supporting more investigators in the early stages of their careers."

"The Pioneer award will enable us to try many different—some risky—approaches to understanding how a cell's individual biochemical characteristics, or phenotype, develops and is regulated," said Dr. Eberwine. "One can think of this pursuit as a complex maze with many false passages and the funding will enable us to move much more rapidly through this scientific maze."

"The Innovator Award will allow me to take risks and expand my research program in new directions without worrying about funding for a while," said Dr. Gitler. "It will be great to be able to focus all of my attention on research and continue to do the work I am most excited about."

Dr. Eberwine proposes that by transferring the catalogue of RNA molecules from one cell to another in a way that makes the recipient cells' survival dependent on the donor RNA, the recipient cell's phenotype will mimic the donor cell phenotype. Having the ability to transfer phenotypes between cells would provide important new insights into mechanisms controlling cell differentiation and function. Preliminary data show that donor cell RNA populations carry "memory functions" in which donor RNA can induce long-term changes in the genome of host cells to effectively match the inner workings of the donor cell. The ability to selectively and rationally create cellular phenotypes may yield novel individualized therapeutics.

Dr. Gitler studies the mechanisms that cause proteins to misfold and aggregate by identifying genes and cellular pathways that are affected by misfolded human disease proteins. By harnessing baker's yeast as a model system to study the mechanisms underpinning protein-misfolding diseases such as Alzheimer's and Parkinson's, his lab aims to perform high-throughput, genome-wide screens to elucidate the basic cellular mechanisms of toxicity. These will provide the lab with an opportunity to observe and understand protein folding and misfolding in real time as it occurs in a living cell. The innovative aspect of his approach is not just that they are working in yeast, but that they are using



James Eberwine



Aaron Gitler

this system as a tool to discover new drug targets.

For both programs, NIH selects recipients through special application and evaluation processes. Distinguished outside experts identify the most highly competitive applicants. The Advisory Committee to the Director, NIH, performs the second level of review and Dr. Zerhouni makes final decisions based on the outside evaluations and programmatic considerations.

John Zhang: Ades Professor



Z. John Zhang

as well as a PhD and an MA in history and sociology of science and technology from Penn.

Before coming to Penn, Dr. Zhang held positions at Columbia University and Washington University in St. Louis. He has received many awards for his work, including the John Little Award and the Frank Bass Award.

The Ades Chair was endowed through a \$2 million gift from Robert A. Ades (*Almanac* November 22, 2005), founder of the DC law firm Robert A. Ades and Associates, in honor of his father, a Wharton alumnus from the undergraduate class of 1925.

Dean Thomas Robertson said, "The Murrel J. Ades Professorship is a wonderful way for Mr. Ades to pay tribute to his father's memory while making an impact on Wharton faculty and students for generations to come. It is an honor for the School to be a part of the Ades family tradition."

The Ades Professorship, like other endowed professorships, exists in perpetuity to recognize an exceptional scholar and teacher, providing him or her with continued support and additional research funding. It also responds to one of Wharton's most critical priorities—the recruitment and retention of top-quality faculty.

Heimbold's Gift to Penn Law

The Penn Law School has announced a \$5 million gift from Charles and Monika Heimbold to establish the Heimbold Chair in International Law.

The gift was inspired by Mr. Heimbold's desire to give current Penn Law students the opportunity to study international law, as he had at Sweden's Hague Academy of International Law in the summer of 1959, while he was a law student at Penn.

Mr. Heimbold served on Penn's Board of Trustees from 1995-2003 and was a member and chairman of the Law School Overseers. He has been chair emeritus since 2001. Mr. Heimbold received a BA from Villanova University. He graduated from Penn's Law School in 1960.

"A law school of Penn's caliber should have such a chair," Mr. Heimbold said. The chair is particularly important, given the School's focus on international law, the growing number of international students at the School, and the global interests of the faculty.

Mr. Heimbold stressed that the study of international law is even more important today, when there are more legal issues associated with international treaties and organizations. He also said that maintaining peace depends on the enforcement of international law.

Mr. Heimbold served under President George W. Bush as the US ambassador to Sweden, beginning his tenure three days after the terrorist attacks on September 11, 2001. Mr. Heimbold served as an ambassador until 2004. Formerly, he was chairman and CEO of Bristol-Myers Squibb Co., deputy chairman of the Board of Directors of the Federal Reserve Bank of New York and a member of the Board of Directors of ExxonMobil Corp.

Mrs. Heimbold is the chair of the Heimbold Foundation. She is also a co-founder and active director of the World Childhood Foundation and a director of the American Scandinavian Foundation.

Mr. Heimbold has a strong commitment to education and has served as a Trustee of the American Museum of Natural History, Sarah Lawrence College and International House.

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Charles Heimbold

University-wide Teaching Awards: October 17

Nominations for Penn's University-wide teaching awards are now being accepted by the Office of the Provost. Any member of the University community, past or present, may nominate a teacher for these awards. There are three awards:

The Lindback Award for Distinguished Teaching honors eight members of the standing faculty—four in the non-health schools (Annenberg, Design, Engineering and Applied Science, GSE, Law, SAS, Wharton, Social Policy & Practice) and four in the health schools (Dental Medicine, Medicine, Nursing, and Veterinary Medicine).

The Provost's Award for Distinguished PhD Teaching and Mentoring honors two faculty members for their teaching and mentoring of PhD students. Standing and associated faculty in any school offering the PhD are eligible for the award.

The Provost's Award for Teaching Excellence by Non-Standing Faculty honors two members of the associated faculty or academic support staff who teach at Penn, one in the non-health schools and one in the health schools.

The nomination forms are available at www.upenn.edu/provost/teaching.html. The deadline for nominations is *Friday, October 17, 2008*. There will be a reception honoring all the award winners in April 2009. For more information, please e-mail provost-ed@upenn.edu or call (215) 898-7225.

Criteria and Guidelines

1. The Lindback and Provost's Awards are given in recognition of distinguished teaching. "Distinguished teaching" is teaching that is intellectually demanding, unusually coherent, and permanent in its effect. The distinguished teacher has the capability of changing the way in which students view the subject they are studying. The distinguished teacher provides the basis for students to look with critical and informed perception at the fundamentals of a discipline, and s/he relates that discipline to other disciplines and to the worldview of the student. The distinguished teacher is accessible to students and open to new ideas, but also expresses his/her own views with articulate and informed understanding of an academic field. The distinguished teacher is fair, free from prejudice, and single-minded in the pursuit of truth.

2. Skillful direction of dissertation students, effective supervision of student researchers, ability to organize a large course of many sections, skill in leading seminars, special talent with large classes, ability to handle discussions or structure lectures—these are all attributes of distinguished teaching, although it is unlikely that anyone will excel in all of them. At the same time, distinguished teaching means different things in different fields. While the distinguished teacher should be versatile, as much at home in large groups as in small, in beginning classes as in advanced, s/he may have skills of special importance in his/her area of specialization. The primary criteria for the Provost's Award for Distinguished PhD Teaching and Mentoring are a record of successful doctoral student mentoring and placement, success in collaborating on doctoral committees and graduate groups, and distinguished research.

3. Since distinguished teaching is recognized and recorded in different ways, evaluation must also take several forms. It is not enough to look solely at letters of recommendation from students or to consider "objective" evaluations of particular classes in tabulated form. A faculty member's influence extends beyond the classroom and individual classes. Nor is it enough to look only at a candidate's most recent semester or opinions expressed immediately after a course is over; the influence of the best teachers lasts, while that of others may be great at first but lessen over time. It is not enough merely to gauge student adulation, for its basis is superficial; but neither should such feelings be discounted as unworthy of investigation. Rather, all of these factors and more should enter into the identification and assessment of distinguished teaching.

4. The Lindback and Provost's Awards have a symbolic importance that transcends the recognition of individual merit. They should be used to advance effective teaching by serving as reminders to the University community of the expectations for the quality of its mission.

5. Distinguished teaching occurs in all parts of the University. Therefore, faculty members from all schools are eligible for consideration. An excellent teacher who does not receive an award in a given year may be re-nominated in some future year and receive the award then.

6. The Lindback and Provost's Awards may recognize faculty members with many years of distinguished service or many years of service remaining. The teaching activities for which the awards are granted must be components of the degree programs of the University of Pennsylvania.

Penn Humanities Forum Call For Topics: November 7

SAS standing faculty members in the humanities and related disciplines are invited to submit proposals for the Penn Humanities Forum's 2010-2011 topic. All the Forum's programming for that year will address the theme, which must therefore appeal to postdoctoral, faculty, and student researchers as well as the public. Topics should be broad, interdisciplinary, historically deep, and yet of contemporary intellectual salience. Deadline for 2010-2011 Topic Proposals: *Friday, November 7, 2008*.

This is a list of previous topics and their topic director:

<i>Human Nature</i> (Wendy Steiner)	<i>Sleep & Dreams</i> (Hans Van Dongen)
<i>Style</i> (Wendy Steiner)	<i>Belief</i> (Carol Ann Muller)
<i>Time</i> (Holly Pittman)	<i>Travel</i> (Karen Detlefsen)
<i>The Book</i> (Peter Stallybrass)	<i>Origins</i> (Gary Tomlinson)
<i>Word & Image</i> (Catriona MacLeod & Liliane Weissberg)	

The theme for the current year, the Forum's 10th anniversary, is *Change* (Peter Struck); in 2009-2010 it will be *Connections* (Peter Conn).

In proposing a theme, you will be understood to be volunteering to be its Topic Director, collaborating with the Forum Director to select speakers and run the year's events. The Topic Director receives a stipend.

Proposals should be brief: a description of the topic, an outline of problems and disciplines it encompasses, and a list of potential speakers. Submissions will be reviewed by the PHF Faculty Advisory Board, who have been known to select more than one topic from a given call to the faculty. Accordingly, topics may be submitted for years after 2010-2011, if you so desire.

Send proposals or questions to the Director of the Forum, Wendy Steiner (wsteiner@english.upenn.edu). For technical information, call Jennifer Conway (215) 898-8220, associate director. Information on earlier topics and Forum programs can be accessed at www.phf.upenn.edu/topics.shtml.

Council Coverage

Last Wednesday, President Amy Gutmann welcomed Council members to the first meeting of the academic year, appointed Dr. Paul Guyer to once again serve as the moderator and then announced the appointment of Mark Frazier Lloyd as the Parliamentarian for the 18th year.

Mr. Lloyd then provided the following historical summary of how Council came to be the deliberative and inclusive group that it is now:

In April 1963 the University administration and the Faculty Senate jointly agreed to form University Council. The *Almanac*, then as now, the University's publication of record, announced the establishment of University Council and summarized its purpose, saying it was "designed to eliminate the present duplication of faculty-administrative committees and to provide a more effective means for the faculty to participate in policy discussions." University Council as we know it today, however, dates to March 1969, when the faculty and administration voted to amend Council bylaws to provide for student representation. During the course of the 2008-09 academic year, we shall arrive at the 40th anniversary of that decision.

University Council is a deliberative and broadly representative body, which serves an advisory role to the President, Provost, and senior administration of the University. The purpose of University Council is best described in its Bylaws, which state that Council "exists to consider the activities of the University in all its phases, with particular attention to the educational objectives of the University and those matters that affect the common interests of faculty, staff and students." University Council has fulfilled that role capably, advising no fewer than six University presidents over the past 45 years. Let us commit ourselves to continuing to fulfill that role for the coming year and for the foreseeable future.

Dr. Gutmann said Penn had been ranked a score of 'A-' by The Sustainable Endowments Institute's 2009 College Sustainability Report Card, the highest grade given, one shared with 14 other institutions out of the 300 in their survey. She said that grade was fitting since there is "always more progress to be made." She noted that Penn has been creating green roofs, doing more recycling and building better buildings that are "kinder to the future." (*See page 6.*)

Dr. Sherrill Adams, chair of Council's Steering Committee, listed the five focus issues approved at Steering's September 17 meeting; they are now working to schedule the topics. The first topic on the agenda, with EVP Craig Carnaroli presenting on October 22 is a discussion of campus life issues: affordable housing for graduate students, dining services, retail options and Penn Transit.

Subsequent meetings will include a discussion of diversity issues and initiatives on campus; a dialogue on Penn's involvement in West Philadelphia and the greater Philadelphia community; an analysis of international issues; and a discussion of metrics used by the University to measure the quality and effectiveness of programs and how the results are communicated to the University community.

The Council Committee Charges for 2008-2009 were recommended by last year's committee chairs and approved by Steering.

There will be two Open Forums this year, one at the December 10 meeting and the other at the February 18 meeting.

BENCHMARKS

Since 1956, Penn has celebrated a rite of passage each year for faculty and staff of all ranks who meet only one common requisite: they have been members of the University community for 25 years. Another 123 new members crossed the 25-year mark in 2008 and will be inducted at the University of Pennsylvania 25-Year Club celebration on October 2. Members at New Bolton Center will have a separate celebration on October 22.

25-Year Club: New Members for 2008

- Ms. Jane R. Abernethy, Operations/Wharton
Ms. Mary Armata, Transportation & Parking/
Business Services
Dr. William A. Ball, Psychiatry/Med
Dr. Jacques Barber, Psychiatry/Med
Ms. Anne A. Barr, Pathology and Laboratory
Medicine/Med
Dr. Thomas L. Bauer, Surgery Admin/Med
Ms. Georgia Mae Baxter, Admin/Med
Ms. Pamela Beaty, Advanced Dental Educa-
tion/Dental Med
Ms. Roberta Bell, Investments/EVP
Mr. William Bittner, Trades/Facilities
Dr. Andrea S. Boxer, Ob-Gyn Admin/Med
Mr. Christopher Bristow, Admin/SEAS
Ms. Alberta Lee Brittingham, NBC/Vet
Ms. Cynthia J. Brockett, NBC/Vet
Dr. Bruce K. Brownstein, Ophthalmology
Admin/Med
Ms. Carol Buckley, NBC/Vet*
Ms. Sandra L. Bullock, Penn Medicine Devel-
opment & Alumni Relations/Development
Dr. Ann Wolbert Burgess/Nursing
Ms. Corinne L. Cacas, Admissions/Dental Med
Dr. Judith A. Coche, Psychiatry/Med
Ms. Betty Ann Cochran, University Library
Ms. Julie Colleluori/Law
Ms. Susan M. Colleluori, Radiology Admin/Med
Dr. Christos Coutifaris, Ob-Gyn/Med
Ms. Margie Cummings, NBC/Vet*
Ms. Wendy Curtis-Uhle, Ryan Veterinary
Hospital/Vet
Mr. Matthew Cutrufello, Operations & Mainte-
nance Admin/Facilities
Dr. Peter K. Davies, Materials Science/SEAS
Dr. David G. De Long, City and Regional
Planning/Design
Dr. Margreta de Grazia, English/SAS
Dr. Robert J. DeRubeis, Psychology/SAS
Mr. Peter F. Dolhancryk, Neurology/Med
Dr. Paul Ducheyne, Bioengineering/SEAS
Dr. Lawrence H. Frame, Cardiovascular Med/
Med
Mr. Geoffrey Gee/International Programs
Dr. Warren B. Geffer, Radiology/Med
Dr. Marvin H. Greenbaum, Ophthalmology
Admin/Med
Dr. Peter G. Gross, Ophthalmology Admin/Med
Ms. Beth S. Haggarty, Hematology-Oncology
Admin/Med
Dr. Thomas Adam Hanak, Oral Med/Dental Med
Ms. Joanne M. Hanna, Undergrad Financial
Aid/Development
Ms. Jacqueline Harrison, Housekeeping/
Facilities
Dr. David H. Henry, Hematology-Oncology/
Med
Dr. John J. Heuer, Human Resources
Dr. Keith C. Hinshaw, Clinical Studies-
Philadelphia/Vet
Ms. Marianne Incmikoski, Central Admin/Med
Dr. Zena Indik, Hematology-Oncology Ad-
min/Med
Dr. Jerry A. Jacobs, Sociology/SAS
Dr. Janet Kimberly Johnston, NBC/Vet
Ms. Adline Jones, Housekeeping/Facilities
Dr. Peter M. Joseph, Radiology/Med
Dr. Malek Kamoun, Pathology and Laboratory
Medicine/Med
Dr. Joel S. Karp, Radiology Admin/Med
Mr. Donald J. Kelley, Trades/Facilities
Mr. Charles King, Housekeeping/Facilities
Ms. Rita J. Kliniewski, Ophthalmology
Admin/Med
Dr. Insup Lee, Computer Information Science/
SEAS
Ms. Debra Lefferts, Student Affairs/Vet
Ms. Mary A. Leonard, Biochemistry &
Biophysics/Med
Dr. Virginia A. Livolsi, Pathology and
Laboratory Medicine/Med
Mr. Ralph Maier, Purchasing/Business Services
Ms. Luz N. Marin, Women's Studies/SAS
Dr. Christine M. Massey, Institute for
Research in Cognitive Science/SAS
Dr. Sue McDonnell, Clinical Studies-NBC/Vet
Mr. Jerome L. McRae, Trades/Facilities
Mr. Gerald Melvin, Transportation & Parking/
Business Services
Mr. Thomas C. Messner, Penn Police/Public
Safety
Dr. Allyn Jane Miner, South Asia Studies/SAS
Mr. Philip Miraglia, SAS Computing/SAS
Ms. Diane Moderski, Near Eastern Languages
& Civilizations/SAS
Ms. Elizabeth S. Moersh, University Library
Dr. Mark A. Morgan, Ob-Gyn/Med
Dr. Jeanne C. Myers, Biochemistry and
Biophysics Admin/Med
Dr. Chandrasekaran Nagaswami, Cell and
Development Biology Admin/Med
Mr. Lawrence E. Nann, NBC/Vet
Dr. Anita S. Nevyas-Wallace, Ophthalmology
Admin/Med
Dr. Anna Pastuszko, Biochemistry and
Biophysics/Med
Dr. Mark V. Pauly, Health Care/Wharton
Ms. Laura H. Peller, Environmental Health &
Radiation Safety/Provost
Dr. Johannes M. Pennings, Management/Wharton
Ms. Rebecca Reuling Perry, Fels Admin/SAS
Dr. Richard Scott Poethig, Biology/SAS
Ms. Sally R. Powell, Ryan Veterinary
Hospital/Vet
Dr. Richard B. Prince, Ophthalmology Admin/
Med
Ms. Patricia S. Rea, Grad Division Admin/SAS
Ms. Wanda Reid, Housekeeping/Facilities
Ms. Kathleen A. Rick, Human Resources/Med
Mr. Rolando C. Rivera, Admissions/Provost
Dr. Ralph Rosen, Classical Studies/SAS
Ms. Rona D. Rosenberg/GSE
Dr. Howard Rosenman, Dermatology/Med
Dr. Richard Jay Ross, Psychiatry/Med
Dr. Anthony L. Rostain, Psychiatry/Med
Dr. Harvey Rubin, Infectious Diseases/Med
Dr. Michael R. Rudnick, Renal Electrolyte and
Hypertension/Med
Dr. Deborah H. Schaible, Pediatrics Admin/Med
Mr. Richard D. Schretzenmair, Pathology
Bioresource/Med
Ms. Anne M. Seidner, NBC/Vet
Dr. Patricia L. Sertich, Clinical Studies-
NBC/Vet
Mr. Jeffrey A. Sheehan, External Affairs/
Wharton
Dr. Wen K. Shieh, Chemical and Biomolecular
Engineering/SEAS
Dr. Stephen Eric Shpeen, Endodontics/
Dental Med
Dr. Jeffrey H. Silber, Pediatrics/Med
Dr. Harbir Singh, Management/Wharton
Dr. Surendra Singh, Restorative/Dental Med
Dr. Kenwyn K. Smith, School of Social Policy
& Practice
Mr. Robert E. Smith, Physics & Astronomy/SAS
Mr. Tyrone Suber, Managed Dining/
Business Services
Ms. Barbara J. Thomas, Housekeeping/
Facilities
Dr. Paul A. Tiffany, Management/Wharton
Ms. Mariko Kon Tokito, Physiology Admin/
Med
Ms. Sue Ann Torelli, Research Advisory
Group/Wharton
Dr. Lyle H. Ungar, Computer Information
Science/SEAS
Mr. Stanley Valciukas, Network Operations/
Information Systems & Computing
Dr. Keith N. Van Arsdalen, Urology/Med
Mr. Richard J. Vaughan, Trades/Facilities
Dr. Robert E. Verrecchia, Accounting/Wharton
Ms. Anne M. Viggiano, Dean's Office/SAS
Ms. Sharon M. Ward, Ryan Veterinary
Hospital/Vet
Mr. Rodney Webb, Biology/SAS
Dr. Joyce C. White, Penn Museum
Dr. Peter Wilding, Pathology and Laboratory
Medicine/Med
Ms. Debra D. Williams, Annenberg School
Ms. Ernestine Williams, Logan Hall BA/SAS
Dr. Stephen Zderic, Surgery/Med

* 2007 members not included last year

Below are the newly revised University Research Foundation Award Guidelines. Additional information and the application may be found online at www.upenn.edu/research/FoundationGuidelines.htm. The deadline for the fall Research Foundation proposals is November 7, 2008.

University Research Foundation: November 7

The University Research Foundation (URF) is now accepting applications for the November 7 deadline. The URF is an intramural funding program that provides up to \$50,000 support for research projects and up to \$3,000 for conference support.

The objectives of the URF research program are to: (1) Help junior faculty undertake pilot projects that will enable them to successfully apply for extramural sources of funding and aid in establishing their careers as independent investigators; (2) Help established faculty perform novel, pioneering research to determine project feasibility and develop preliminary data to support extramural grant applications; (3) Provide support in disciplines where extramural support is difficult to obtain and where significant research can be facilitated with internal funding; and (4) Provide limited institutional matching funds that are required as part of a successful external peer-reviewed applica-

tion. URF Review Panels comprise established Penn faculty members and are charged with giving preference to projects that meet one of the aforementioned criteria.

Faculty members are invited to submit their research applications to one of four disciplinary areas: Biomedical Sciences, Humanities, Natural Sciences and Engineering, and Social Science and Management. In addition, URF offers a Conference Support program to provide funding for meetings designed to enhance existing research and scholarly programs, particularly in disciplines where external funding is difficult to obtain. Conferences that promote interdisciplinary and multi-school participation are given priority.

Complete details about the URF and links to the forms can be found on the Office of the Vice Provost for Research website at www.upenn.edu/research/FoundationGuidelines.htm.

—Steven J. Fluharty, Vice Provost for Research

In the most recent cycle—spring 2008—of Penn's internally-funded University Research Foundation, and URF Conference Support (noted with *), the Office of the Vice Provost for Research has announced awards to the following members of the Penn faculty for the projects listed below.

University Research Foundation Awards and Conference Support Awards Spring 2008

Lillian Aronson, Department of Clinical Studies, School of Veterinary Medicine; *Effect of immunosuppressive drugs on feline T cell responses to pathogens.*

Kendra Bence, Department of Animal Biology, School of Veterinary Medicine; *Role of liver protein-tyrosine phosphatase 1B (PTP1B) in high fat diet-induced insulin resistance and development of fatty liver.*

Ben Black, Department of Biochemistry and Biophysics, School of Medicine; *The physical properties of centromeric chromatin.*

Jon M. Burnham, Department of Pediatrics, School of Medicine; *Vitamin D supplementation in pediatric systemic lupus erythematosus.*

Margaret M. Chou, Department of Cell and Developmental Biology, School of Medicine; *Development of a murine model of aneurysmal bone cyst.*

Melpo Christofidou-Solomidou, Department of Medicine, School of Medicine; *Chemoprevention of lung cancer by phenolic lignan metabolites in mice.*

Peter Dodson, Department of Animal Biology, School of Veterinary Medicine; *Analysis of new basal ceratopsian dinosaur discoveries from Gansu, Northwestern China.*

*Charles Epstein, Department of Mathematics, School of Arts and Sciences; *Applied mathematics and computational science at Penn.*

Ann Farnsworth-Alvear, Department of History, School of Arts and Sciences; *Oral histories of Colombia's gold-mining regions: From El Dorado to the Cocaine Kingdom.*

Damon Freeman, Department of Social Pol-

icy & Practice, School of Social Policy & Practice; *Kenneth B. Clark: Not So Simple Justice.*

Ellen Giarelli, Department of Behavioral Health Systems, School of Nursing; *Developmental disabilities and behavioral problems among school children in rural South Africa: Pilot and educational needs assessment.*

Jessica Goldberg, Department of History, School of Arts and Sciences; *Waterlogged flax, Syrian soap, and spicy cinnamon: Geographies of trade and traders in the Medieval Mediterranean.*

*Howard Goldfine, Department of Microbiology, School of Medicine; *Three conferences for Penn's Year of Evolution.*

Wei Guo, Department of Biology, School of Arts and Sciences; *The role of Exo70 in Arp2/3-mediated actin polymerization and cell migration.*

*Gary Hatfield, Department of Philosophy, School of Arts and Sciences; *Measuring conscious experience: Philosophy and methodology.*

Frank Lee, Department of Pathology and Laboratory Medicine, School of Medicine; *Functional characterization of novel erythrocytosis-associated HIF-2 mutations.*

*Heather Love, Department of English, School of Arts and Sciences; *Rethinking sex: An international conference in gender and sexuality.*

Jennifer Lukes, Department of Mechanical Engineering and Applied Mechanics, School of Engineering and Applied Science; *Stress-controlled nanoparticle patterning in alloy systems.*

Aimee Payne, Department of Dermatology,

School of Medicine; *Mechanisms of Desmosomal turnover in pemphigus.*

Laura Peoples, Department of Psychiatry, School of Medicine; *The role of cocaine-induced accumbal hypoactivity in cocaine addiction: The differential inhibition hypothesis.*

Alain Plante, Department of Earth and Environmental Science, School of Arts and Sciences; *Soil carbon responses to climate change in Northern Mongolia.*

Kevin M. Platt, Department of Slavic Languages & Literatures, School of Arts and Sciences; *Europeans at last: History, culture and identity among ethnic Russians and Russian-speakers in the contemporary Baltic States.*

Mechthild Pohlschroder, Department of Biology, School of Arts and Sciences; *Structure and function of archaean surface structures.*

Ravi Radhakrishnan & Casim Sarkar, Department of Electrical and Systems Engineering, School of Engineering and Applied Science; *Parsing the molecular mechanisms of DNA replication and lesion bypass through molecular modeling and directed evolution.*

Makoto Senoo, Department of Animal Biology, School of Veterinary Medicine; *Plasticity and aging of epithelia stem cells.*

Melissa Wilde, Department of Sociology, School of Arts and Sciences; *The birth and evolution of the culture wars.*

Anna Laura Wolf-Powers, Department of City Planning, School of Design; *Workforce development in Greater Philadelphia's life sciences cluster: Can systems change support the integration of less educated workers?*

Honors & Other Things

Dr. Hankenson: Fuller Albright Award

Dr. Kurt D. Hankenson, assistant professor of cell biology, was awarded the Fuller Albright Award by the American Society of Bone and Mineral Research (ASBMR). Dr. Hankenson, is the first veterinarian to receive this award. His expertise in mouse phenotyping, in thrombospondin biology, and in mesenchymal stem cell biology, has provided him with a wide-variety of collaborative



Kurt Hankenson

relationships that exist with investigators across the country and world-wide.

Dr. Jemmott: Top 10 Recipient

Dr. John B. Jemmott III has been honored as one of the 10 researchers whose work in HIV/AIDS education received the most investigator-initiated (R01) grant funding from the NIH during the fiscal year of 2007. Dr. Jemmott is the Kenneth B. Clark Professor of Communication at the Annenberg School and a professor of communication in psychiatry and director of the Center for Health Behavior and Communication Research in the School of Medicine.

Mr. Levy: Into the Open Exhibition

Mr. Aaron Levy, executive director and senior curator at the Slought Foundation, is co-curator of the US representation at the 11th International Architecture Exhibition, La Biennale di Venezia. The exhibition, *Into the Open: Positioning Practice*, highlights the means by which architects reclaim a role in shaping community and the built environment. Other organizers include US Commissioner William Menking, along with Andrew Sturm, director of architecture for the PARC Foundation. Mr. Levy is also a lecturer in the department of English.

Dr. Steele: IMS President-Elect

Dr. J. Michael Steele, C.F. Koo Professor of Statistics and Operations and Information Management in the Wharton School, has been named the 2008-09 President-Elect of the Institute of Mathematical Statistics (IMS). The Institute is an international academic society for the statistics profession, dedicated to the development, dissemination, and application of statistics and probability.

ISC: ISO Certification

Information Systems and Computing (ISC) has received certification from the International Organization for Standardization for its data center, making the University of Pennsylvania the first in the Ivy League to do so.

"The ability of our organization to obtain international certification provides tangible proof that ISC is focused on being the best it can be," ISC Vice President Robin Beck said.

"We are proud to have earned recognition from ISO, an organization known for sharing technological advances and good management practices and for disseminating innovative ideas," Data Center IT Senior Director Donna Manley said.

ISC started the certification initiative three years ago.

"We saw ISO certification as part of our on-

Penn: Top Wired College

The University of Pennsylvania has been named a Top Wired College by *The Princeton Review* and *PC Magazine's* "Most Connected Campuses" rankings. Penn is number 16 in the nation among "teched-out" campuses.

Dental Med Alumni Merit Awards

The Penn's School of Dental Medicine has honored three alumni with the annual Alumni Award of Merit for 2008: *Dr. Marc Ackerman*, *Dr. Leonard Cole*, and *Dr. Rowland Hutchinson*. Dr. Ackerman graduated in 1998 and is currently an orthodontist in Florida. Dr. Cole of Ridge-wood, New Jersey, a 1957 graduate, has a private dental practice and teaches political science. Dr. Hutchinson, class of 1958, has served as a faculty member and dean of several dental schools. The Award of Merit recognizes loyalty to the school, excellence in the profession and community involvement.

Leonore Annenberg Award

The Annenberg School for Communication has presented alumnus *Bill Novelli*, C'63, ASC'64, with the Leonore Annenberg Award for Distinguished Graduates. Mr. Novelli is the CEO of AARP. The award is given to an Annenberg alumnus who has demonstrated a commitment to helping others and who has made significant contributions to the community and to the country.

NBIC Research Excellence Award

The Nano/Bio Interface Center (NBIC) will present Rice University's nanophotonics pioneer *Dr. Naomi Halas* with its Research Excellence Award. Dr. Halas, the Stanley C. Moore Professor in Electrical and Computing Engineering and founder/director of Rice's Laboratory for Nanophotonics, is being recognized for her contributions to the innovative synthesis of nanostructures. She will accept the award and give the keynote address at NBIC's NanoDay@Penn ceremonies on October 29.

Medicine: Top Score from AMSA

The American Medical Student Association (AMSA) has given the *School of Medicine* a top 'A' score for having one of the best conflict of interest policies. According to the AMSA, only 21 of 150 medical schools surveyed have strong policies. AMSA "evaluates restrictions on gifts, paid speaking for products, acceptance of drug promotion samples, interaction with sales representatives, and industry-funded education, among other criteria.

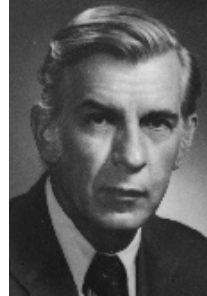
going efforts of continuous improvement in services we provide to our clients at Penn," said Ray Davis, executive director of ISC's Systems Engineering Operations, to which the data center reports. "We knew the work required to achieve ISO certification would be a high bar to measure ourselves against. We also knew working through the process would provide more pronounced and interactive opportunities for employees to contribute directly to Penn's success. This win-win scenario made the additional work well worth the effort."

Increases in efficiency will result in cost reductions of more than \$150,000 annually, Ms. Manley said.

ISO is the world's largest developer and publisher of international standards. It has 157 member countries.

Death

Dr. Haase, Neurology



Gunter Haase

recorded emeritus status in 1996.

Previously, Dr. Haase held faculty positions at Temple University (1965-1974), and headed its department of neurology; and at University of Oklahoma Medical Center (1960-1964). In addition, he was a neurologist with the National Institutes of Health.

Dr. Haase had been a member of the advisory committee of the Greater Delaware Valley Chapter of the National Multiple Sclerosis Society from which he received an award for his service.

Born in Chemnitz, Germany, Dr. Haase served in the Luftwaffe (German air force) during World War II. He earned his medical degree from Ludwig-Maximilians-Universität in Munich.

Dr. Haase is survived by his wife, Dr. Therese Dolan; children, Leslie Hanks, Christopher, Stephanie and Peter Haase; stepchildren, Martin and Elizabeth Stamm; and five grandchildren.

Contributions may be sent to Hospice Services at Pennsylvania Health Care, 8th and Spruce Sts., Philadelphia, PA 19107; or the Gunter Haase Scholarship Fund, Tyler School of Art, Temple University, Philadelphia, PA 19122.

To Report A Death

Almanac appreciates being informed of the deaths of current and former faculty and staff members, students and other members of the University community. Call (215) 898-5274.

Prompt PennCard Processing

Last fall, Business Services and ISC jointly launched a project designed to improve processes and systems associated with issuing PennCards. We are pleased to announce that the project team has recently completed software modifications that will enable new employees to obtain a PennCard within one business day after the payroll record has been entered into the Payroll/Personnel system by the hiring officer, allowing new hires to receive their PennCard on or even before their start date. For more information, go to www.upenn.edu/penncard/announce.
—*Suzanne Bellan, Director, Campus Card Services*

Print on Demand for Course Materials

Penn Publication Services and Mimeo.com have partnered to become your Print on Demand specialists. Print on Demand is the fastest, easiest way to create, print and distribute all of your course materials, presentations, binders, handouts and more. Upload files, choose a binding, proof it online, select your delivery options...and you're done. You can get overnight delivery.

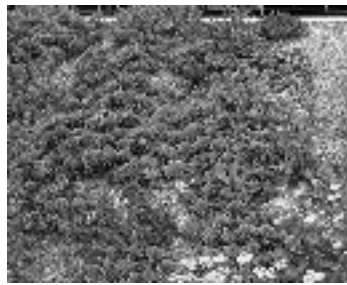
To find out more or to sign up for a free trial worth \$100 in print, visit www.upenn.edu/publicationservices.

—*Aiasha B. Saalim Graham
Director, Penn Publication Services*

The University of Pennsylvania to LEED the Way Toward Sustainability

The Red & Blue—Going Green, Silver and Platinum

The Penn Connects plan recommends a “sustainable approach to development, with a particular focus on the opportunities available in the east campus expansion area. Specific recommendations include: a long-term plan for climate neutrality; high-performance buildings to reduce energy consumption; smart land use planning and increased open space; enhanced transportation; mitigating storm water issues; and improving recycling practices.”



Green Roof Project

Penn continues to exercise its principles of sustainability by replacing a rubber roof with a specially designed waterproofing, topped

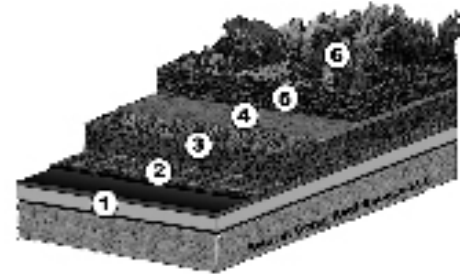
by a thin growing medium and a carefully selected plant mix of prairie grass, alpine sedum and mosses to create the first “extensive” retrofitted green roof on campus. It is on the terrace surrounding a boardwalk atop Kings Court English College House. Benefits provided by the green roof include:

- Temperature reduction on the building’s top floor during warm weather through evaporative cooling
- Moderate winter temperature swings on the building’s top floor due to enhanced insulation
- Extended roof life as the greenery protects the roof from ultraviolet rays and frost
- Retention of storm water will help manage campus discharge and prevent local flooding
- Reduced carbon dioxide impact on the environment

The roof was dedicated on September 22. The dedication plaque reads:

Welcome to the English House Green Roof—

Completed in spring 2008, Penn’s first roof rehabilitation project incorporates principles of sustainability, the spirited green aesthetic of Kings Court English College House, and honors President Amy Gutmann’s commitment to environmental responsibility at the University of Pennsylvania.



Kings Court English College House
Green Roof Project

1. Roof Deck, Insulation, Waterproofing
2. Protection and Storage Layer
3. Drainage and Capillarity Layer
4. Root Permeable Filter Layer
5. Extensive Growing Media
6. Plants, Vegetation

Winning With Wind Energy

The University of Pennsylvania was among eight organizations across the state to be honored earlier this month for their green-power purchases at the ninth annual PennFuture’s Green Power Awards luncheon held at the Inn at Penn. Businesses and institutions that are taking the lead in creating new renewable supply and are advancing policies that develop the renewable energy market were honored. This year, the University purchased 200,000 megawatt-hours per year of its electricity from wind energy.



Penn Among Top Institutions in US and Canada on Green Report Card for Sustainability Efforts

The University of Pennsylvania has been named one of the top 15 schools in the US and Canada for its sustainability initiatives.

The survey of 300 institutions was done by the Sustainable Endowments Institute for its College Sustainability Report Card, www.GreenReportCard.org.

“Penn’s high mark on the College Sustainability Report Card reflects our commitment to increasing our environmental sustainability through such measures as wind-energy purchase, carbon reduction, recycling and green building programs,” President Amy Gutmann said. “As a leader in environmental sustainability, Penn is proud of the example we continue to set for institutions around the world.”

The report card noted these particular Penn initiatives:

- Dr. Gutmann was the first Ivy League president to sign the Presidents Climate Commitment.
- Penn purchases renewable-energy credits from wind-power generation equivalent to 46 percent of its electricity.
- The University has appointed a sustainability coordinator.
- An environmental-sustainability advisory committee of students, faculty and staff has been established.
- Penn’s campus development plan, Penn Connects, is aiming for LEED Silver certification for all new building projects.
- Local farms are supported through a farm-to-institution program and through weekly farmers markets at which students may use their meal plans to make purchases.
- Penn’s carbon-footprint survey is complete and will be updated annually.
- Penn will complete its sustainability and carbon-reduction plan by 2009.
- Successful energy-conservation programs have been implemented.

Penn’s Green Campus Partnership

Penn’s Green Campus Partnership is the umbrella group that addresses environmental sustainability and stewardship, and advocates for enhanced sustainability policies at Penn. It includes the Environmental Sustainability Advisory Committee (ESAC) as well as faculty and student groups, including the Penn Environmental Group (PEG).

Hangers: During the Spring 2008 move-out period, students donated thousands of hangers to the PennMOVES collection drive. This September, PEG has partnered with the Penn administration to use these donated hangers, which would have otherwise gone to a landfill, as a way of educating students about reusing and conserving resources. The hangers were grouped into bunches of 20. PEG students had stations set up in College Houses during this fall’s move-in period where new and returning students were able to pick them up at no charge.

See www.business-services.upenn.edu/sustainability/ for more information about joining Penn’s efforts to address the issue of global climate change.



UC Green was initiated by Penn’s Facilities and Real Estate Services ten years ago to unite community organizations, city agencies, university students, and residents in local greening efforts. The original executive director was Dr. Esaul Sanchez, who headed the organization from 1999-2002. He recruited a team of volunteers from the University and the community to form the UC Green Tree Tenders group. The organization “fosters community cooperation as these various entities work together around their own residences, streetscapes, institutions, businesses, local parks, and schools. People from many different backgrounds come together on shared projects and develop friendships and strengthen the social fabric of the community.” UC Green, Inc. established a 501(c)3 non-profit status in 2004. Earlier this month, UC Green celebrated ten years of accomplishments.

See www.ucgreen.org

Ground Breaking on the Arboretum's Sustainable Horticulture Center

On Friday, October 3, at 11 a.m., the Morris Arboretum will break ground on a new Horticulture Center Complex at Bloomfield Farm, across the street from the public gardens at the University's Arboretum in Chestnut Hill.

The complex will be the first newly constructed green building on the University of Pennsylvania's campus to be certified through the US Green Building Council's LEED rating system. The Horticulture Center Complex is slated to achieve LEED Platinum certification, the greenest level available, representing the highest commitment to sustainability. As such, this project could operate as a national "green" model, inspiring and encouraging other organizations, both non-profits as well as for-profits, to consider environmentally sustainable and regenerative design in their construction planning. University of Pennsylvania President, Amy Gutmann will be present to celebrate the groundbreaking of this sustainable design and construction.

Some of the design features of the Horticulture Complex that will qualify it for Platinum Level LEED Certification include the following:

- An efficient ground-source heat pump will provide heating and air conditioning for the building, using only about one-fourth the energy of a typical boiler/air conditioning system.

- A green roof on the equipment storage shed will capture and absorb rain, slowing the surge of stormwater to the site drainage system. A green roof also helps reduce the ambient summer temperature by providing a cool roof surface instead of the "heat island" associated with most asphalt or rubber roofs.

- Photovoltaic panels will provide on-site generation of renewable energy, with peak electricity production during the hot summer months when the demand for electrical power is highest.

- The building will be well insulated to eliminate infiltration of outside air and reduce the energy lost through the walls.

- The building's lighting system is designed to take full advantage of natural daylight by using skylights and roof monitors to supplement artificial lighting. Photocell sensors will automatically dim the electric lights in use on bright days to reduce energy use.

- The design team is investigating on-site micro-hydro power by using the existing historic mill

race to generate electricity.

- A constructed wetland will provide treatment of wastewater on site, reducing the demand on the township wastewater system.

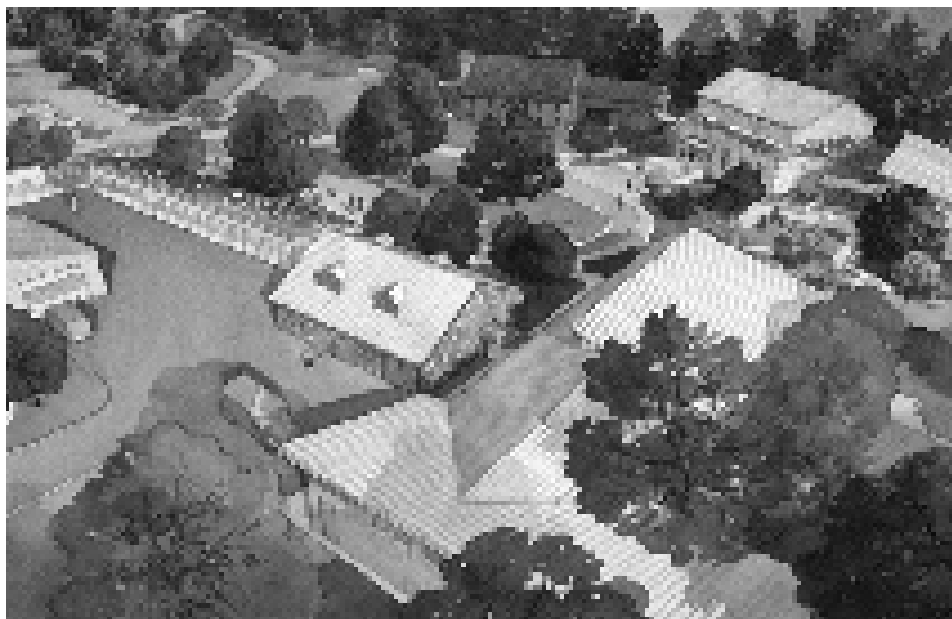
The Horticulture Center Complex's design team consists of architects from Overland Partners of San Antonio, TX; Muscoe Martin of Philadelphia's M2 Architecture; and Andropogon Associates—the Arboretum's Philadelphia-based landscape planning partner since 1977.

The Horticulture Center Complex will be introduced in two phases. Phase One, beginning construction on October 3, will focus on the provision of critically-needed and flexible work space for the Arboretum's horticulture, education, maintenance, and facilities staff, providing important infrastructure for staff and equipment.

The 20,840-square-foot facility will provide space for staff to manage their extensive responsibilities for the Morris Arboretum's 167-acre property in the most efficient and cost-effective manner possible. The added space will enhance research opportunities, providing additional room for preserving and studying the Arboretum's plant collection. It will also provide suitable storage and maintenance areas for the variety of equipment needed to care for the property.

Groundbreaking for Phase Two of the Horticulture Complex is projected for the fall of 2010. Its focal point will be a new Education Building, also targeted for LEED Platinum, that will greatly increase the Arboretum's capacity for offering on-site public programs. This new space is expected to strengthen the Arboretum's finances by providing increased opportunities for earned income through educational program offerings and special event facility rentals.

"We're very excited about this project and what it means to the Arboretum as well as the greater community," says Morris Arboretum's F. Otto Haas Director Paul Meyer. "The complex will provide wonderful spaces for our educational programs as well as inspiring work spaces for our horticulture and program staff members. The building itself will be a model for sustainable development that will demonstrate the best in environmentally sensitive architectural design. It will be a celebration of the sense of place of the Wissahickon Valley, echoing the style of an existing 19th century barn."



Morris Arboretum's New Sustainable Horticulture Center

Radian's Green Roof

The Radian, the new 14-story, 154-unit student housing-complex, (*Almanac* July 17, 2007) also has a green roof atop the ground-floor retail level, designed to serve both as a garden with dense plantings of Black-eyed Susans and other flowering species, next to an outdoor dining area, and as a storm-water treatment system. The 12,000-square-foot green roof, which covers 20 percent of the building's total footprint, was designed primarily to satisfy the city's stormwater control regulations. Drains will capture runoff from impervious sections of the terrace, funneling it into an irrigation system for the plants.

Singh Nanotechnology Center

The Singh Nanotechnology Center (*Almanac* March 4, 2008) currently in the design phase, will house molecular research in the areas of engineering, medicine and the health sciences, is expected to receive a LEED Silver rating. The building will be located in the 3200 block of Walnut Street, and funded in part by a \$20 million gift from Krishna Singh, an alumnus of Penn's School of Engineering and Applied Science (*Almanac* September 4, 2007). Its sustainable design includes locally sourced construction materials, a green roof, low flow water fixtures, solar-heated hot water, natural ventilation and design for daylight harvesting.

Futuristic Building Design Helping Patients & the Environment

The Perelman Center for Advanced Medicine, designed by Perkins Eastman/Rafael Vinoly Architects, was built to create a comfortable and easy-to-navigate environment for patients and their families. The soaring glass atrium creates a central welcome space adjacent to a café and retail space. Exam rooms are a spacious 110 square feet, providing ample room for family members and friends. Special consultation rooms throughout the facility bring doctors, nurses and other medical professionals directly to patients and their families, eliminating the need for visits to different offices around the medical campus.

Additional family waiting rooms offer a comfortable retreat for caregivers during appointments, supporting research which found that social interaction helps patients with cancer live longer. Among other comforts are valet parking that puts patients within steps of their clinics, and free wireless internet access throughout the facility.

The Perelman Center conserves resources, reduces carbon dioxide emissions and encourages environmental stewardship. Built with recycled, locally-sourced materials and wood from sustainable forests, it is 15 percent more efficient than older buildings and is expected to be among only a few US hospitals to earn the prestigious LEED certification for "green buildings." The Center will keep approximately 3,700 metric tons of carbon dioxide—the amount of produced by 700 cars—out of the environment each year. A green housekeeping program uses non-toxic chemicals to clean, and the building stocks only recycled paper cleaning products. Energy saving components include motion sensor lights and 21 electric car charging stations in the underground garage. Bike racks and shower facilities encourage employees to pedal to work.

Eco-Friendly

- The Perelman Center exceeds minimum energy efficiency standards by 15%, which will save a projected \$350,000 a year on energy costs and keep 3,700 metric tons of carbon dioxide—the amount produced by nearly 700 cars—out of the air.

- Charging stations for 21 electric cars in the underground parking garage stand to remove an additional 36 metric tons of carbon dioxide from the air each year.

Human Resources: Upcoming Programs

Penn Family Day: October 4

Don't forget that the 16th annual Penn Family Day is coming up this Saturday, October 4! Bring your family and friends to cheer on the Penn football and women's volleyball teams and visit the Penn Museum and the Penn Ice Rink. Be sure to kick off your Family Day fun with a picnic lunch, family activities and giveaways at the new location of the Penn Family Tailgate Party (next to the Levy Tennis Pavilion).

You must have tickets to attend the Tailgate Party and football game. If you missed the order deadline and didn't get your tickets, please contact Human Resources to see if it's still possible to participate in these events. Either way, you'll still be able to participate in the other exciting Penn Family Day activities at the Penn Museum, the Penn Ice Rink and the women's volleyball game. For directions, maps, parking details and a complete schedule of events, visit the Human Resources website at www.hr.upenn.edu/Quality/StaffRecognition/FamilyDay.aspx. If you have any questions, contact Human Resources at QOWL@hr.upenn.edu or (215) 898-1012.



Models of Excellence 10th Anniversary Celebration Nominations: November 12

We know that Penn staff members go above and beyond the call of duty every day in all sorts of ways, from providing extraordinary customer service to embodying innovative leadership and undertaking substantial cost-saving efforts. This year marks the 10th anniversary of the Models of Excellence program, through which the University recognizes and rewards these outstanding accomplishments—and we need your help to identify individuals who have contributed to Penn's success! If you know of individuals or teams of staff members who have achieved something noteworthy, please nominate them for a Models of Excellence award. If you know of an outstanding supervisor, nominate him/her for the Model Supervisor Award.

Detailed information about the Models of Excellence program, including how to submit a nomination, is available on the Human Resources website at www.hr.upenn.edu/Quality/Models. All nominations for this year's program are due by *Wednesday, November 12, 2008*. The Models of Excellence 10th Anniversary Celebration, recognizing 10 years of excellence, will be held in the spring of 2009. If you have any questions, please contact Human Resources at QOWL@hr.upenn.edu or (215) 898-0380.

Getting Ahead:

A Series for Young Professionals

Young professionals face a unique set of challenges in the workplace—and also have the opportunity to make tremendous strides. This fall, Human Resources is offering new sessions in its ongoing program *Getting Ahead: A Series for Young Professionals*. Details including dates, times, locations and subjects are available in the program flyer at www.hr.upenn.edu/Learning/GettingAheadSeries2.pdf. To register for courses, visit the online Course Catalog at www.hr.upenn.edu (click “Course Catalog” at the top of the page) or contact Learning and Education at (215) 898-3400.

Money Matters II: Beyond the Basics; October 21; noon–1:30 p.m.; free. Buying a home, building a portfolio, managing educational and credit card debt, starting to save for retirement—these are issues young professionals wrestle with regardless of job title or position. This session will take you beyond the basics to learn more about investment strategies and other financial issues.

Professional and Personal Development

Improve your skills and get ahead in your career by taking advantage of the many development opportunities provided by Human Resources! You can pre-register for programs by visiting the online Course Catalog at www.hr.upenn.edu (click “Course Catalog” at the top of the page), or by contacting Learning and Education at (215) 898-3400.

Brown Bag Matinee: Think or Sink; October 7; noon–1 p.m.; free. In order to work as an effective team, we must first learn to think together as a team. *Think or Sink* shows you how to apply team thinking skills to solve problems, exploit opportunities and make better decisions. From top-level executives to first line supervisors, every member of a problem-solving or decision-making team can gain insight into consolidating a team culture and helping your whole organization to think more effectively as a team.

Minutes Writing; October 10; 9 a.m.–noon; \$75. This course covers the fundamentals of writing good and effective minutes for meetings. Topics include the reasons we take minutes, various formats for writing minutes, writing styles for minutes, and the etiquette of when to write and distribute minutes. There will also be a quick general writing skills review. The format of the class will combine discussion, lecture and hands-on writing exercises.

Franklin Covey's FOCUS; October 14; 9 a.m.–5 p.m.; \$75. Competing priorities. Multiple deadlines. A hundred unanswered e-mails. This engaging, highly interactive workshop will give you the tools to increase productivity and enhance your chances of success. Learn how to keep focused, effectively manage all the information that comes across your desk, and reduce your stress level.

Brown Bag Matinee: “The Sluggers Come Home”; October 23; noon–1 p.m.; free. Many people find negotiation challenging. *The Sluggers Come Home* teaches viewers the key principles, strategies and tactics of this process by telling the story of negotiations between a base-

ball club owner and the brothers who own a nearby baseball stadium. How they come to terms illustrates the three major steps in negotiations: preparation, bargaining and settlement. You will also learn about common pitfalls to avoid, and other related issues.

Diversity Brown Bag: Sexual Harassment Awareness; October 24; noon–1 p.m.; free. As an employer and as an educational institution, Penn is committed to eradicating sexual harassment. Sexual harassment in any context is reprehensible, and it is a matter of particular concern to an academic community in which students, faculty, and staff must rely on strong bonds of intellectual trust and dependence. This program will familiarize you with Penn's sexual harassment policy and with your responsibility to create and maintain a respectful workplace, free of inappropriate behavior or conduct that could be construed as prohibited harassment.

Heart Health

Keeping your heart fit is one of the most important things you can do to improve your chances of good health throughout your life. These workshops, led by physicians and health experts from the University of Pennsylvania Health System, will cover the facts and answer your questions about maintaining a heart-healthy lifestyle. Pre-registration is required for this special fall series, sponsored by Human Resources. You are welcome to bring a brown bag lunch.

For more information and to register, visit the online Course Catalog at www.hr.upenn.edu (click “Course Catalog” at the top of the page) or contact Human Resources at suz.smith@upenn.edu or (215) 898-5116.

Women and Heart Disease: Understanding a Woman's Risk; October 7; noon–1 p.m.; free. Heart disease is the leading cause of death of American women, but you can do a lot to help protect yourself and other women in your life from it. This workshop will help give you the skills and knowledge you need to be able to recognize the most common causes of and how to prevent heart disease. You should leave the workshop armed with information to help stave off this condition. This workshop is sponsored by Human Resources and will be led by Dr. Helene Glassberg, assistant professor of medicine, cardiology, UPHS.

Your Heart and Cardiovascular Health: The Importance of Exercise; October 21; noon–1 p.m.; free. Lack of physical activity has been shown to increase the risk of developing heart disease. Conversely, a lifestyle that includes regular physical activity can actually increase your chances of survival following a heart attack. This workshop will give you the skills and knowledge you need to better understand the importance of exercise in your everyday life. You should leave the workshop with great tips on how being physically active can positively affect your life. This workshop is sponsored by Human Resources and will be led by Dr. Daniel Soffer, Diplomate, American Board of Clinical Lipidology, Cardiovascular Risk Intervention Program, Philadelphia Heart Institute.

(continued on page 9)

Pilot Grants—Nonhuman Primate Core of the Penn CFAR: October 31

Request for Proposals:

To facilitate opportunities for Penn Center for AIDS Research (CFAR) investigators to utilize the nonhuman primate model of AIDS, our Nonhuman Primate (NHP) Core includes animals and animal support for Penn CFAR developmental studies. The goal of this program is to allow an investigator to accumulate sufficient data and expertise to apply for an independent NIH grant.

Funds are available for the procurement and care of 8 animals (up to 4 animals per project) a year, including appropriate animal laboratory studies (collection of body fluids, biopsies, surgeries, necropsies and basic or SIV-specific laboratory studies). This will permit funding for 1 or 2 projects each year, depending on the number of animals requested and the length of the

project. Laboratory studies performed at Penn will be the responsibility of the investigator, and there are no funds available for salary support.

All Penn CFAR investigators are eligible for these pilot funds. If interested, it is recommended that you contact one of the investigators from the Tulane National Primate Research Center (TNPRC) [listed below] to discuss possible studies, study design, etc. prior to submitting an application.

No budget page is required as award is for procurement and use of animals at TNPRC.

Submission Deadline: *Friday, October 31, 2008*. To download form with instructions, visit www.upenn.edu/aims/WordDocs/NHPPI-lotAnnouncement2008.doc

TNPRC Investigators:

Dr. Andrew A. Lackner, alackner@tpc.tulane.edu

Dr. Preston Marx, pmarxj@tulane.edu

Dr. Ron Veazey, rveazey@tulane.edu

(continued from page 8)

Quality of Worklife Workshops

Dealing with the demands of work and your personal life can be challenging. These free workshops led by experts from Penn's Employee Assistance Program and Work and Family Benefits Provider, Penn Behavioral Health, offer information and support for your personal and professional life challenges. Quality of Worklife workshops include time at the end for some Q&A. For more information or to register, visit www.hr.upenn.edu/Quality/Workshop.aspx or call (215) 573-2471.

Taking Care of Yourself When You Are the Caregiver; October 9; 11:30 a.m.–1 p.m.; free. This seminar will teach attendees to balance the responsibilities of caregiving with the necessity to also take care of themselves. Participants will learn to accurately identify the areas in which they must make changes, to reframe their perceptions and expectations, and to manage this difficult balancing act.

Coaching Children for Online Computer Safety and Security; October 16; 11:30 a.m.–1 p.m.; free. This seminar focuses on what to look out for on the internet, and the steps parents can take to reduce their children's vulnerability to online predators as well as inappropriate web content. Participants will learn what questions to ask, and how to read telltale signs of questionable online behavior in children. Finally, the session will cover ways that others have successfully encouraged safe and responsible online conduct.

Flexible Work Options Information Sessions

Flexible Work Options can support Penn's efforts to attract and retain top talent, maximize productivity, and expand services, while individual employees may benefit from the ability to pursue professional development opportunities, manage work and family responsibilities, and more. Penn's guidelines on how to propose and implement flexible work option arrangements are available from the Human Resources website at www.hr.upenn.edu/Quality/Worklife/FlexOptions.


On October 10 and October 30, Human Resources will offer free lunchtime (noon–1:30 p.m.) information sessions explaining Flexible Work Options in detail, including:

- How Flexible Work Options work
- Where Flexible Work Options fit & work best
- What conditions encourage a successful plan
- What others have experienced with flexible work arrangements (presented by a panel of colleagues from around campus)

Whether you are an employee interested in establishing a flexible work arrangement or a manager seeking to understand how to consider and evaluate flexible work proposals, please join us for these informative, interactive presentations and discussions. For more information and to register, please visit the online Course Catalog at www.hr.upenn.edu (click "Course Catalog" at the top of the page and select "Flexible Work Options" from the Browse by Category menu) or contact Human Resources at kraut@upenn.edu or (215) 898-0380.

—Division of Human Resources

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Volunteer Opportunities

Dear Penn Community,

Thank you so very much for your generous donation of school supplies. The items are being shared with local families and the following groups: St. Barnabas Shelter, Fan's View of Mantua, Sayre High School College Access Program, and the Penn Workplace Mentoring Program.

Below is a list of volunteer opportunities. We look forward to our continued work together as we partner with our neighbors in the surrounding community. To volunteer, contact me at sammap@pobox.upenn.edu or call (215) 898-2020.

Thank you also for your continued support in our efforts to perform community service in the surrounding community.

—Isabel Mapp, Penn VIPS, Barbara & Edward Netter Center for Community Partnerships

Join the Penn Workplace Mentoring Program: Middle school students visit campus once a month to gain exposure to college life and careers. Volunteer to mentor a local youth in this on-campus mentoring program. There's still time to join the program. Program runs through May.

Join the Penn Team: Making Strides Against Breast Cancer is a great way to fight back against breast cancer and provide hope to all people facing the disease. *Sunday, October 12* at the Philadelphia Art Museum, registration: 7:30 a.m. Walk start: 9 a.m. Making Strides is not a race; it is a celebration of survivorship, an occasion to express hope, and a shared goal to end a disease that threatens the lives of so many people we love. Making Strides walks do not have a registration fee or minimum fundraising amount. They are open to men, women, and children of all ages. Making Strides Against Breast Cancer unites friends, families, and coworkers to raise awareness and funds to fight breast cancer. Your support enables the American Cancer Society to fund groundbreaking breast cancer research, provide up-to-date cancer prevention and early detection information. While we are making strides against breast cancer, there is more work to be done to beat this disease...and we need your help! Join us for a few hours of exercise, inspiration, camaraderie, entertainment, and most importantly, to honor someone you know who has been affected by breast cancer.

Join us for Philadelphia Cares Day: In one day, you can make a world of difference. Philadelphia Cares Day is *Saturday, October 18*. Join Greater Philadelphia Cares, in partnership with the Philadelphia School District, as we host the 15th Annual Philadelphia Cares Day, a marathon day of service that gives our children attractive and more functional learning environments. More than 100 schools will benefit from fresh coats of paint, refurbished libraries, landscaped green spaces, restored playground equipment, and much more. As one of 10,000 volunteers committed to improving the quality of public education, you will help contribute more than 60,000 volunteer hours of service, accomplishing the equivalent of 30 people working full time for a year!

Only 36 days until the Presidential Election and counting: Voters throughout the region are counting on the Committee of Seventy to make sure this historic election is clean and that every vote counts. I hope you are planning to join the Penn team as an Election Day volunteer on November 4. We need your help! Early registration makes it much easier for us to prepare for an election of this magnitude.

Campaign for Working Families: A non-profit agency in Philadelphia that assists low-income working families through free tax preparation needs volunteers. Many members of the UPenn community have found volunteering with them a rewarding experience in the past and they look forward to connecting with more people during the coming tax season (January to April). Contact: Elly Porter-Webb, Campaign for Working Families, 1207 Chestnut Street, 5th floor, Philadelphia, PA 19107, epwebb@gpuac.org, (215) 851-1759.

Is the US Ready for a Woman President?

After Senator John McCain chose Alaska Governor Sarah Palin as his running mate on August 29, 2008, self-identified Republicans and Independents are significantly more likely to think that the United States is ready to elect a president who is a woman, according to the National Annenberg Election Survey. Governor Palin is the first woman the Republican Party has nominated to run on a national ticket.

The findings, released September 9 are based on across-time analyses of the 10 days prior and 10 days after. The percent of Republicans thinking that the US is ready to elect a president who is a woman jumped almost 10 percent (9.7%) after the introduction of Governor Sarah Palin while independents jumped 8.4 percent. Both increases are statistically significant. There was not a statistically significant shift among Democrats on this question.

Data for this study were collected between August 1 and September 7, 2008 from 8,974 adults in the United States.

Philanthropists Share Charitable-Giving Approaches

A sizable percentage of high-net-worth givers do not see themselves as philanthropists even though each gives away about a million dollars or more annually. That is among the findings of a study by the University of Pennsylvania's Center for High Impact Philanthropy (CHIP).

The CHIP study involved structured interviews with 33 anonymous high-net-worth individuals, each capable of giving \$1 million annually. "I'm Not Rockefeller: 33 High Net Worth Philanthropists Discuss Their Approach to Giving" examines how these people approach their charitable giving.

Researchers found a set of diverse and evolving practices, a strong reliance on peers for information, a narrow and negative view of evaluation and difficulty exiting established relationships with non-profits, even when the philanthropist felt it was the right thing to do.

And about a third of the study participants did not view themselves as "philanthropists," despite their considerable generosity.

"Several participants said things like, 'I'm a really nice guy who gives money to charities. I don't think that makes me a philanthropist,'" Katherine Rosqueta, CHIP executive director, said.

"Or, 'the word "philanthropist" still cracks me up because it sounds so hoity-toity. I'm not Rockefeller.' This, despite the fact that their giving is much greater than the average charitable contribution of the top US income group," Ms. Rosqueta said.

The study offers implications for those working to improve philanthropic effectiveness.

"The good news," Ms. Rosqueta said, "is that these philanthropists are capable of giving much more than they do, and many acknowledge that. The bad news is that the lack of time and trusted resources mean that, despite their good intentions, many just sit on the capital because they don't feel confident about making smart decisions. Unless we can figure out ways to get them to make good decisions faster, we will be missing out on a lot of good that this latent capital could create."

The study's findings, key themes and implications for the field are available from the Center's website: www.impact.upenn.edu.

Tolerance of Mental Illness the Same as 10 Years Ago

A new study by Dr. Jason Schnittker, associate professor of sociology, shows that, while more Americans believe that mental illness has genetic causes, the nation is no more tolerant of the mentally ill than it was 10 years ago. The study, published online in the journal *Social Science and Medicine*, uses a 2006 replication of the 1996 General Social Survey Mental Health Module to explore trends in public beliefs about mental illness in America, focusing in particular on public support for genetic arguments.

Prior medical-sociology studies reveal that public beliefs about mental illness reflect the dominant mental-illness treatment, the changing nature of media portrayals of the mentally ill and the prevailing wisdom of science and medicine.

Dr. Schnittker's study, "An Uncertain Revolution: Why the Rise of a Genetic Model of Mental Illness Has Not Increased Tolerance," attempts to address why tolerance of the mentally ill hasn't increased along with the rising popularity of a biomedical view of its causes. His study finds that different genetic arguments have, in fact, become more popular but have very different associations depending on the mental illness being considered.

"In the case of schizophrenia, genetic arguments are associated with fears regarding violence," Dr. Schnittker said. "In fact, attributing schizophrenia to genes is no different from attributing it to bad character—either

way Americans see those with schizophrenia as 'damaged' in some essential way and, therefore, likely to be violent. However, when applied to depression, genetic arguments have very different connotations; they are associated with social acceptance. If you imagine that someone's depression is a genetic problem, the condition seems more real and less blame-worthy: it's in their genes, they're not weak, so I should accept them for who they are."

Dr. Schnittker's study also shows that genetic arguments are associated with recommending medical treatment but are not associated with the perceived likelihood of improvement. "While the stigma surrounding mental illness has not diminished, the rate of treatment for psychiatric disorders has increased," Dr. Schnittker wrote.

According to Dr. Schnittker's research, genetic arguments have, in fact, increased public support for medical treatment but at the same time aren't clearly associated with improvements in overall tolerance levels. The study explores tolerance in terms of social distancing: unwillingness to live next door to a mentally ill person, have a group home for the mentally ill in the neighborhood, spend an evening socializing with a mentally ill person, work closely with such a person on the job, make friends with someone with a mental illness or have a mentally ill person marry into the family.

Detecting Alzheimer's Disease Earlier

Researchers from the School of Medicine have identified two new techniques to detect the progression of Alzheimer's disease earlier. By catching Alzheimer's disease before symptoms are apparent, physicians can prescribe treatments to slow down the disease progression. In one study, researchers identified abnormal structural changes in the brains of seemingly normal elderly adults that indicated mild cognitive impairment, a precursor to Alzheimer's disease. In a second study, researchers detected changes in cells that may help predict the transition from mild cognitive impairment to Alzheimer's disease. The studies were presented at the 2008 Alzheimer's Association International Conference on Alzheimer's Disease.

Dr. Christos Davatzikos, professor of radiology at the School of Medicine, Dr. Susan Resnick, of the National Institute on Aging and colleagues found brain deterioration in elderly adults who were classified as cognitively normal. They used a highly accurate measurement tool, based on MRI images from the brains of people with Alzheimer's disease, to look at the MRI images of normal elderly and identify any remarkable structural changes. By comparing these images, researchers were able to identify subtle structural changes in the brain tissue of healthy elderly adults with no noticeable symptoms of Alzheimer's disease.

Results of the study demonstrated: Significant brain deterioration was evident in a number of individuals who had no apparent symptoms when compared to cognitively healthy elderly; adults an increase of changes or abnormalities in brain structure was accompanied by a decrease in cognitive performance; there was an increase in Alzheimer's-like brain deterioration as people aged.

In addition, researchers uncovered a connection between two risk factors for dementia. Alzheimer's-like structural changes were accompanied by diseases of small blood vessels in the brain.

In a second study, Dr. Leslie Shaw, professor of pathology and lab medicine and director of the Penn ADNI Biomarker Core Laboratory, and colleagues found they could predict when patients with mild cognitive impairment may convert to Alzheimer's disease by measuring significant cellular signatures.

Researchers determined benchmark concentration levels of certain biological indicators in three populations: elderly who were cognitively normal, mildly cognitively impaired and had Alzheimer's disease. Examining cerebral spinal fluid (CSF) samples collected from more than 50 study sites, they determined baseline levels of three proteins associated with Alzheimer's disease (total tau, P-Tau181P, and β -Amyloid1-42). What they found were significant differences in the level of these biomarker concentrations between groups.

"Analyzing changes in these CSF biomarker levels in people with mild cognitive impairment can detect the conversion to Alzheimer's disease, especially when used in conjunction with neuroimaging and psychological tests," said Dr. Shaw. "By defining significant differences in biomarkers, we are able to accelerate our drug development efforts to look for compounds that modify these discrepancies and may treat Alzheimer's disease."

Dr. Davatzikos' study used MRI images from participants in two long term studies—the Baltimore Longitudinal Study of Aging (BLSA) and the Alzheimer's Disease Neuroimaging Initiative (ADNI).



Scarecrow Walk at the Arboretum: First Annual Scarecrow Contest

Wander down "Scarecrow Walk" and admire the entries in the 2008 Morris Arboretum Scarecrow Design Contest, including Cha cha (above). The scarecrows are on display now through Sunday, October 5th (the day of the Fall Festival).

All scarecrows are being raffled off and the winners will be chosen during the Fall Festival at 1 p.m. Visitors can purchase a raffle ticket any time during the contest but the winner must be present at the Fall Festival to take home their prize.

Deadline: Submissions for the Update are due every Monday for the following Tuesday's issue. The deadline for the November AT PENN calendar is *Tuesday, October 14*. For information see www.upenn.edu/almanac/calendar/caldead-real.html.

Blood Drives Today

There's a low blood supply in the region. Donate and help patients in local hospitals. Navy ROTC, Hollenbeck Center, First Floor Room 309, 8 a.m.-2 p.m. Greek Challenge, Bodek Lounge, Houston Hall, 8:30 a.m.-7:30 p.m. —*American Red Cross*

Two Musicals for Children

Penn Presents 2008-2009 season of children's entertainment begins with two smart, fully-staged, curriculum-connected musicals this week at the Zellerbach Theatre in the Annenberg Center.

The Ant and the Elephant on Thursday, October 2, 10 a.m. and *The Musical Adventures of Flat Stanley* on Thursday, October 2, noon; Friday, October 3, 10 a.m., noon, and 7 p.m.

From *Dumbo* to *101 Dalmations*, Bill Peet was one of Walt Disney's greatest storymen, responsible for illustrating, storyboarding and producing many of the greatest animated features of all time. The musical *The Ant and the Elephant* brings Peet's unique version of this Aesop fable to life on stage.

Written by Jeff Brown and illustrated by Scott Nash, the *Flat Stanley* books are a phenomenon unequaled in their genre.

Tickets are \$10 and are available at the Annenberg Center Box Office.

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RESEARCH

The UPHS/Division of Endocrinology seeks **women at least 60 years of age** who have been told they need treatment for osteoporosis or who have had a bone fracture from osteoporosis for a research study. Women who are interested will be evaluated by bone densitometry and MRI. Women who qualify will receive treatment with an osteoporosis medication for two years and compensation for travel. Please call Terry Scattergood RN, MSN at (215) 898-5664 for more information.

For information call (215) 898-5274 or visit www.upenn.edu/almanac/faqs.html#ad. *Almanac* is not responsible for contents of classified ad material.

Penn Commuter Fair: Options for Commuting to Campus

In anticipation of the South Street Bridge closure, the University of Pennsylvania will host the Penn Commuter Fair, designed to help members of the Penn community find alternatives to driving to campus as well as make their commutes more affordable and sustainable. *Two sessions are planned.*

10 a.m.-2 p.m., Tuesday, October 7 in the Hall of Flags, Houston Hall

10 a.m.-2 p.m., Wednesday, October 8 in the Ravdin Mezzanine, HUP

Participants will include:

- SEPTA
- New Jersey Transit
- PATCO
- Amtrak
- PhillyCarShare
- The Clean Air Council
- The Bicycle Coalition of Greater Philadelphia

• Penn representatives from:

Human Resources, Transportation and Parking, the Division of Public Safety and the South Street Bridge Working Committee

Update Your Department's Almanac Mailing Label

Help *Almanac* keep its mailing list up-to-date. Please provide us with any updates to your department's mailing label including changes in the number of issues your department/center receives and/or changes to the mailing address and contact person. Changes can be submitted by fax, (215) 898-5274; e-mail, almanac@upenn.edu; or through intramural mail, suite 211 Sansom East/6106.

Please consider the environment and our *free online alternatives*, such as E-*Almanac*. Ask your colleagues if they would still like to receive a hard copy. To start getting *Almanac* delivered to your computer with teasers linked to the newly posted material, see www.upenn.edu/almanac/express.html. —*Ed.*

The University of Pennsylvania Police Department Community Crime Report

About the Crime Report: Below are all Crimes Against Persons and Crimes Against Society from the campus report for **September 15-21, 2008**. Also reported were 34 crimes against property (including 27 thefts, 1 auto theft, 3 burglaries, 2 acts of vandalism and 1 case of fraud). Full reports are available at: www.upenn.edu/almanac/volumes/v55/n06/creport.html. Prior weeks' reports are also online. —*Ed.*

This summary is prepared by the Division of Public Safety and includes all criminal incidents reported and made known to the University Police Department between the dates of **September 15-21, 2008**. The University Police actively patrol from Market Street to Baltimore Avenue and from the Schuylkill River to 43rd Street in conjunction with the Philadelphia Police. In this effort to provide you with a thorough and accurate report on public safety concerns, we hope that your increased awareness will lessen the opportunity for crime. For any concerns or suggestions regarding this report, please call the Division of Public Safety at (215) 898-4482.

09/18/08	2:09 AM	200 40th St	Offender cited for public urination
09/20/08	12:25 AM	4000 Spruce St	Offender had stun gun/Arrest
09/20/08	1:01 AM	3900 Delancey St	Complainant assaulted
09/20/08	4:54 AM	4006 Spruce St	Male in possession of narcotics/Arrest
09/20/08	5:46 AM	3900-3902 Spruce St	Property removed from residence
09/20/08	9:34 PM	34th & Market St	Complainant robbed by unknown males
09/21/08	12:59 AM	3800 Spruce St	Male cited for public urination
09/21/08	1:55 AM	3400 Sansom St	Male wanted on warrant/Arrest
09/21/08	3:41 AM	3637 Locust Walk	Laptop taken from property
09/21/08	4:44 AM	3900 Walnut St	Intoxicated driver arrested
09/21/08	4:33 PM	3620 Walnut St	Males issued citation for skateboarding

18th District Report

10 incidents with 4 arrests (including 4 aggravated assaults and 6 robberies) were reported between **September 15-21, 2008** by the 18th District covering the Schuylkill River to 49th St. & Market St. to Woodland Ave.

09/15/08	8:30 AM	4600 Sansom St	Robbery
09/15/08	11:30 PM	4900 Spruce St	Robbery
09/16/08	11:49 AM	5110 Spruce St	Aggravated Assault/Arrest
09/18/08	3:00 PM	5100 Chestnut St	Aggravated Assault/Arrest
09/19/08	3:00 PM	4900 Catherine St	Aggravated Assault
09/20/08	7:30 AM	4500 Sansom St	Robbery
09/20/08	9:26 PM	5100 Walton Ave	Robbery/Arrest
09/20/08	11:55 PM	4500 Larchwood Ave	Robbery/Arrest
09/21/08	3:00 PM	116 46th St	Aggravated Assault
09/21/08	10:20 PM	4527 Walnut St	Robbery



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'Mind the Gap': Teaching Medieval Music in the 21st Century

Emma Dillon

Of all the music I teach at Penn, the repertoires of the Middle Ages are perhaps the least familiar to my students. Indeed, common first reactions to the chants of a 9th-century monastery, to the courtly love-songs of a troubadour, or to the wordy excess of a thirteenth-century motet, are bewilderment, disorientation, and confusion. Perhaps because the cultures that produced this music are so foreign to the students, they often hear the sounds as 'mysterious,' 'mystical,' 'ethereal'—fitting words to describe music that seems to come from a place utterly remote from our own. While my courses hope to dispel the confusion, I am convinced, too, that there are lessons in the strangeness of that moment of first contact. Over the past summer of research in the British Library, the London Underground reminded me daily to 'mind the gap': and that, in essence, is what I strive to teach my students, too. To mind the gap of history, to confront disorientation as itself relevant. That disorientation is as meaningful an experience of unfamiliar music as its affective power. Teaching medieval music is thus simultaneously an opportunity to explore issues of cultural distance and difference—issues that are, after all, close to the heart of Penn's own Compact.

I offer here two illustrations of how we might mind the gap in a class on medieval music. The first is a simple exercise in empathy. The entry-point for most of these courses is plainchant: the thousands of melodies associated with the rituals of Christian devotion, and earliest surviving records of European music before the first millennium. In the first weeks, the class explores how these melodies work, how their notational systems can be deciphered and their relationship to memory, as well as chant's place in religious rituals and devotion. But before that work begins, I often ask students to engage in a more basic activity. 'Empathy', a theme in much recent writing in medieval studies, is a mode by which we may attempt to identify with distant subjects through our own basic humanness. It is a particularly useful maneuver with music, for it repositions students in relation to song: no longer just a disembodied 'work', song now becomes a portal into human experience. I might ask students to do a simple piece of math. How much of the day would you spend singing if you were a medieval nun or monk? If you were chaplain in a royal household? If you were a citizen of fourteenth-century Florence? The answers are quite staggering. For the most devout of medieval society, vast portions of the day (and night) were spent singing. Put another way, while speaking may be our default vocalicity, for some medieval men and women, singing was the norm. Next: what does it feel like to sing? For any length of time? And what does it feel like to sing in a group? Students recall light-headed moments of over-exuberant singing; the engulfing roar of communal song at the baseball stadium; or the intimacy of their close harmony glee club. These simple references back to our own vocal chords, heart rates, lung capacities, and social environments create a simple moment of insight into, and sometimes fleeting connection with, the past. Chant is then no longer just a melodic type or notational style. Empathy opens it up as a story of collectivity; of supremely honed memories; of endurance; and finally of visceral sensation leading to sacred revelation. Above all, it frames music as the story of people. As the humanizing of abstract musical traces begins, we start to bring in the many first-hand voices: from the saintly and mystical, to the anonymous and disenfranchised. We look, too, at other remains of their world—the cathedrals, courts, cities—and imagine song's place in shaping human experience.



Above, a musical manuscript from the University of Pennsylvania, Rare Book and Manuscript Library, MS Codex 1248: Guidonian Hand, a mnemonic device that had been used to assist singers in learning to sight sing.

Emma Dillon, associate professor of music, won both the Ira Abrams Award and the Lindback Award for Distinguished Teaching last spring.

This essay continues the series that began in the fall of 1994 as the joint creation of the College of Arts and Sciences and the Lindback Society for Distinguished Teaching.

See www.upenn.edu/almanac/teach/teachall.html for the previous essays.

Empathy, then, is one useful means to explore distance. Bridging distance, though, also involves intensive, specialized work—and doing some of that work yourself. My second illustration involves evidence that, in contrast to sound, is emphatically durable and tangible: and also fiendishly difficult to make sense of. Medieval music exists as inky symbols on parchment—the translation of the voice into visual notation. Manuscripts, then, are the centerpiece of any history of medieval song; without them we would have no evidence for how the music sounded. But manuscripts are more than passive conduits of musical information: they, too, offer invaluable points of contact with the past. For while we cannot hear the monks and nuns from a thousand years ago, we can see and touch in these books the autographs of their voices. These silent witnesses are thus a very immediate way of being in the presence of the musical past.

We are fortunate at Penn to have a wonderful collection of medieval music manuscripts, recently expanded with the support of Lawrence Schoenberg and Barbara Briddle; and librarians who are generous with their time, and firmly committed to having students learn, hands-on, from the sources. Over the years, I have made manuscripts a feature of all my classes on medieval music. There is no more vivid demonstration of what that gap of history can mean than observing students' reactions as they turn the folios of a 700-year old manuscript: wonder, awe, and sometimes even anxiety. But there is much more to such an exercise than simple show-and-tell. Developing skills in proportion to the level of the class, it is also possible to set students to work on these objects, to show them the expertise necessary to entice the sources to yield the story of their originary moment: How can we know when this book was made? How can its style of writing or notation tell us where it comes from? What was its use? What can the doodlings of later readers tell us about who used this book? With our newest acquisitions, this work is all the more meaningful because so many of these questions have yet to be answered. So in addition to acquiring the skills needed to ask these questions, students have the thrill of being the first to figure out the answers. At such moments, course requirements are forgotten, as students devote hour upon hour to trying to solve the mysteries of these books. It simply becomes about the material: about the profound effort and devotion needed to unlock the stories these books can tell. As students lose themselves in these endeavors, their investment in the past deepens. With that deepening comes, too, the recognition of the sheer work needed to make sense of what has gone before. And so work turns into a labor of love.

At the end of a course on medieval music, I hope students leave with an appetite for a period of music-making I find entrancing. And I hope they feel some familiarity with a culture that is remote from our own, and perhaps even some affinity with the people of the past. But I hope, too, that they learn something from the quieter revelations in these activities. For the gap that separates a 21st-century Penn student from the medieval past is ultimately not so different from other more obvious distances: between different cultures, religions, political factions, and more modestly, between neighbors in the College dorm, students in the classroom. Such gaps can be fraught, confrontational, frustrating or, worst of all, invisible. In learning to negotiate the distance of music history, there is the opportunity to acquire skills not only to appreciate musical creativity of a millennium ago, but also to tackle distances of many other kinds. Mind the gap: but do not be afraid to try and bridge it, realizing that to do so takes patience, courage, empathy, learning, and respect for difference.