

UMSL CHEMIST



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Chairman's Message (Gordon K. Anderson)

The 2000-1 academic year was a busy one for the department and the campus. The new Millennium Student Center opened in October 2000. This is an impressive building, and its completion has allowed most student services to be accommodated in one location. Construction continues on the campus, with another parking garage nearing completion and the Performing Arts Center well underway. Work on I-70, at the Florissant Road end of the campus, is also progressing. Such is not the case within the department, however. I wrote in last year's *UMSL Chemist* that we expected to be in the midst of teaching lab renovations at this time, but unfortunately this is not the case. The uncertainties associated with the state budget have resulted in the appropriation of the funds being an on again off again proposition all year. We heard recently that the legislature had re-appropriated the money at the end of the 2001 fiscal year, but there is no news yet about when the work is likely to begin.

Effective with the fall 2001 semester, the name of the department will be changed officially to the **Department of Chemistry and Biochemistry**. Although our degree offerings are still in Chemistry, the name better reflects the range of activities currently available within the department. In cooperation with the Department of Biology, we have proposed to offer new B.S. and M.S. degree programs in Biochemistry and Biotechnology. We hope these will be approved, and we will be able to offer them by fall 2002. With the present trends in the chemical industry, we believe these will represent excellent opportunities for undergraduates, and for chemistry (or biology) graduates who need further training in biochemistry and biotechnology.

The 2001-2 academic year is going to see some significant changes in the makeup of the department. Dr. Rudi Winter is retiring at the end of the summer, and I know for many former students that will seem like the end of an era in organic chemistry in this department.

DON'T FORGET THE ALUMNI RECEPTION TO BE HELD ON FRIDAY SEPTEMBER 13, FROM 7:00 TO 9:30 PM, IN THE ALUMNI CENTER, 7956 NATURAL BRIDGE ROAD (ACROSS FROM WOODS HALL). PLEASE CALL PAT MAYBERRY AT 516-5311 IF YOU PLAN TO ATTEND.

It is hard to imagine Dr. Winter really retiring, and he will continue his association with our mass spectrometry lab for some time to come. We will be hosting an Alumni Reception in the fall (see

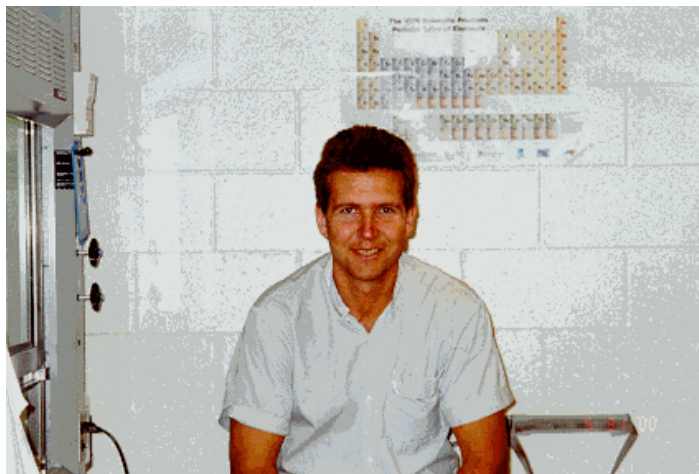
elsewhere), at which we will recognize Dr. Winter's many contributions to the department and our Former students. Dr. Lee Brammer is leaving the department next month. He has decided to return to England, and he has accepted an appointment in the Chemistry Department at the University of Sheffield. He will leave behind a postdoc and three Ph.D. students, so we expect him to make regular visits back to St. Louis over the next couple of years. We are also anticipating the departure of Dr. Bill Welsh in the next couple of months. Although all the details have not yet been finalized, we expect him to join the Department of Pharmacology at the Robert Wood Johnson Medical School in New Jersey. This move is primarily for personal reasons, because Dr. Welsh's wife has been working in New Jersey for some time. Two of our long-time adjunct faculty members will also be absent in 2001-2. Dr. Raghavan Rajagopalan has moved to Cleveland, Ohio, where he is working for a small company called Gliotech. Dr. Bill Neumann plans to sit out this year because of his many other time commitments. We will miss the important contributions of all these colleagues.



Dr. Anderson presenting the Graduate Teaching Assistant Award in Memory of Jack Coombs to his student Padma Nair.

On the positive side, we will welcome some new faces into the department. Two new regular faculty members will join us shortly, Drs. Alexei Demchenko and Cynthia Dupureur. Dr. Demchenko is a native of Ukraine, and he was educated at the Institute of Organic Chemistry at the Russian Academy of Sciences in Moscow. After spending some time at the University of Birmingham (England, not

Alabama), he will join us from the University of Georgia (USA). Dr. Demchenko is an organic chemist, with interests in the synthesis of complex carbohydrates. Dr. Dupureur spent her early childhood in St. Louis, and she earned a B.S. degree from Southwest Missouri State University. She earned a Ph.D. at Ohio State University, before moving on to the California Institute of Technology, then Texas A&M University. Dr. Dupureur will add to our growing emphasis in the area of biochemistry. We will also add two new adjunct faculty members, Drs. Tony Mannino and Bill Waggoner, this fall.



New colleague Dr. Alexei Demchenko joins us this fall

I am very pleased to report that Glenda Gillespie has rejoined our office staff after a short time in the Sociology Department. Glenda now works four days per week. She, along with Charmaine Henson and Pat Mayberry, make up what I hope will be a consistent team for some time to come. Pat is working with Dr. Vally D'Souza in maintaining our department web page. If you have not looked at it recently, I encourage you to do so at <http://www.umsl.edu/divisions/artscience/chemistry>.

The 35th ACS Midwest Meeting was held in the Henry VIII Hotel in St. Louis in October 2000. This was the last major event at that location, since it will be demolished to accommodate the expansion of Lambert airport. The meeting was a highly successful one, primarily due to the efforts of members of this department, most notably Drs. Spilling, Stine and Barton. Certainly one of the highlights of the event was the awarding of the 2000 ACS Midwest Award to our own Dr. Joyce Corey.

Dr. David Key from the University of the Western Cape in South Africa spent about five months here during the early part of 2001. He taught Chemistry 11 during the winter 2001 semester. His plan was to become familiar with the workshop format introduced a couple of years ago by Dr. Garin, and to incorporate this system into their introductory chemistry program at UWC. Dr. Key and I worked on a number of ideas for interactions between the two chemistry departments, and we hope this will be first in a series of visits of faculty members in each direction. We have recently begun an undergraduate student exchange program with Heriot Watt University in Edinburgh, Scotland. The first two students in the program spent their third year here, and we are expecting two more students to be here in the fall.

Last year the family of Dr. Eric Brunngraber endowed a scholarship in memory of Dr. Brunngraber. We will award the first Eric G. Brunngraber Memorial Scholarship in fall 2002. We now have a number of undergraduate scholarships in the department. Please consider providing support for future chemistry students. This is an excellent way to remember your days in the department. As always, please feel free to stop by the Department of Chemistry and Biochemistry (it's still difficult to get used to this!) whenever you might have the opportunity. If there is any way that we can help you in your chosen career, please let us know.

Editor's Message (Lawrence Barton)

A typical question these days concerns who will take over this role when I decide to retire. First I want to emphasize that it will be at least 3 or 4 years before that happens. I am enjoying the job too much and things have gone reasonably well for me these past several years so there is no incentive to retire. Anyway, it appears that Vally D'Souza will take over. This year he is going to help put the UMSL CHEMIST on the department website. That will be the first major change in many years, and the other is the format, which we have not yet decided upon as I write this but I hope to include more "space" and less of a concentration of information. Anyway, if you have any comments or suggestions about the format, content, etc., please let me know.

I rely on alumni, faculty and others to provide information, but sometimes it is like pulling teeth, especially where my colleagues are concerned. Thus I am not going to work so hard to obtain information from those loath to provide it. I will concentrate my efforts on doing as good a job as possible with the information provided to me. Thus if there are individuals for whom there is little or no information, then you know why that is the case.

A continuing question asked by the Alumni Association is why



Dr. Barton receiving the Chancellor's Award for Service from Chancellor Blanche Touhill at the 2001 Founders' Day Dinner.

don't we have a Chemistry Chapter of the Association. I cannot give a good answer to that question. I serve on the Alumni Association Board and am quite active in it. We do as good a job as any group on campus in keeping in touch with our former students. We have one of the better, may I say immodestly, alumni magazines on the campus, and you as alumni give, per person, as much to the campus in financial contributions, as any department here. However, if anyone feels that we should establish a chapter, or if anyone would like to volunteer to help out, please let me know.

We are in the process of arranging a reception for alumni for Friday, September 13. Please plan to attend. That event follows the Annual founders' Day dinner, which is planned for Thursday September 12. This is an excellent tradition established by Chancellor Touhill about ten years ago. At this event among other honorees are the recipients of the Distinguished Alumni Awards. This year, Dawn Shiang, BA 1983, Ph.D. 1987, will be one of the recipients. I suggest it would be a good idea to attend this very enjoyable event. This period of time might be an appropriate time to visit the campus again. It has changed substantially in the past couple of years. The department itself continues to change and we would be delighted to show you around.

Please keep in touch and provide us with information about your career or personal achievement in your personal lives. Also consider making a contribution to the department. This year, like many others in my tenure here, we are facing a severe budget problem and your help would certainly be appreciated.

Alumni Information

1968

Timothy Miller, BA who had been with *Ralston Purina* for many years is now a consultant with *Process Associates*. He spent some time at UM-St. Louis in his consulting capacity earlier this year.

1969

Joseph P. Bono, BS, was in touch with us this year. Last year Joe accepted a new position within the Drug Enforcement Agency in Washington. He is now the Director of the Special Testing and Research Laboratory. We heard from Harold Messler (BS 1970) that "this is a highly prestigious position." Joe's older son is getting close to his Ph.D. degree at the University of Michigan. His younger son Dan is attending the University of Virginia and daughter Gina is involved in the cinematic arts, after receiving degrees in music and cinema. Joe and his wife Barb are now empty nesters.

Douglas G. Nuelle, BS, has been in touch with us after a hiatus for several years. Doug has moved, with his new wife Tonya, to the mountains in North Georgia. He practices medicine in a small town that has a great need for what he does. They are only twenty miles from the beginning of the 'Appalachian Trail, and Doug still plays his banjo and up there he is just one of many. He has had a very successful career since leaving UMSL. After completing Medical School at Wash U in the Alpha Omega Alpha honor medical

society he went first to Guam with the US Navy and then to Memphis to the Campbell Clinic in Orthopedic Surgery. Then he went to Port Charlotte FL where he had a successful practice for twenty years. While there, he was the first in the world to do Arthroscopic Surgery of the Temporal Mandibular Joint (TMJ) and since then has published over fifteen journal articles, three chapters in a major textbook and has lectured all over the United States and on 3 continents regarding his findings in the TMJ. He also holds three patents on devices related to the Treatment of TMJ disorders. In addition he developed a device to assist surgeons in quantifying the soft tissue tension during Total Knee Arthroplasty. The device is now used all over the world. His extra-professional life has centered on music. While in Florida he played in a Doctor's Rock and Roll Band and also played bass in the community symphony for 15 years. One day he told his wife he was tired of the heat in FL and wanted to move to the mountains when he retired. She said, "why wait?" and he couldn't come up with a good answer. They looked all over the country and settled in the north Georgia Mountains. He still lectures - in fact he was going to Colorado in August to lecture at a Harvard symposium on Joint replacement. Last September he lectured on TMJ to a famous dental study club up in Wisconsin.

Larry Payette, BS, came to the Alumni Reception last October. He is a Quality Assurance Chemist in the Portland Fabrication Division of the Commercial Airlines Group of the Boeing Company in Portland, OR.

1970

Gene Bohn, BS, continues to maintain contact with us. Gene is the Plant Manager at the Borden chemical plant in Toledo Ohio.

David Levitt, who never quite finished his bachelor's degree at UMSL but went off to graduate school at MIT anyway, was in the department earlier this summer. He did complete his undergraduate and graduate degrees at Northeastern University and still lives in the Boston area and works at Quest Laboratories. Students and faculty from that era will remember Dave as an excellent organic chemist.

Harold Messler, BS, is a former student whom we see quite often, either on campus or at some university function. Harold is Director of the City of St. Louis Crime Laboratory and a former winner of an Outstanding Alumni Award. Harold has new responsibilities in that he now serves as computer administrator for his laboratory. When he called us in July, he was looking for two new employees so anyone interested in a career in forensic science should get in touch with him.

Ronald E Ackerman, BA, (MS 1981) was in the department recently. Ron was with Monsanto for almost 30 years prior to leaving earlier this year. He is now working for Mallinckrodt Inc. in Hazelwood.

1971

Harry W. Orf, BS, continues to direct the molecular biology laboratories at Massachusetts General Hospital. We heard from

Harry and his wife Karen last summer.

1975

Ronald Bonnell, BS, lives in Glencoe, MO and is self-employed in chemical sales. We saw Ron last fall at a St. Louis Blues hockey game. He enjoys his work very much and finds the time to spend time on the golf course.

1976

John J. Chaber, BS, was in touch recently looking for potential employees. John had been with what was formerly Burroughs Welcome in North Carolina. He spent three years at *Ligand Pharmaceuticals* in San Diego and recently moved to *Vertex Pharmaceuticals* in Boston as Head of Analytical Development. He was most recently promoted to Director of Quality Assurance and Analytical Development. In fact the position he was trying to fill was his old job. John received a Ph.D. degree in medicinal chemistry from Purdue.



A group at the wedding of Paul McQuade (Ph.D. 2001) including Jim Chickos, Brian Grimmond (Ph.D. 1999), Joe Ocheskey, (BS 1999) and his girlfriend, and Dr and Pat Barton (BA 1977).

Andrew Ratermann, BS, enjoys reading the UMSL CHEMIST, although he finds it harder to relate to the chemistry since has drifted away from it in his job. He is working in quality assurance for Meridian Automotive Systems and is responsible now for quality of molding materials as well as quality of incoming coatings, adhesives, plastic inserts and metal parts used in assembly. Some of the problems that he encounters with the molding materials or coatings involve chemistry. He is still the outdoorsman he was as a student. When he contacted us he and his wife had just returned from the Boundary Waters Canoe Area along the Minnesota-Canada border. It is for non-motorized boats only, so they did not see a lot of people other than fisherman. They had to navigate across the lakes and between islands relying on a map and compass.

Vincent Rapini, BS, was in the office earlier this spring with his daughter Jennifer a potential freshman for fall 2001. Vince has been practicing dentistry since his graduation from UMKC Dental School. Vince filled us in on some of his former UMSL colleagues. **Daniel Narup**, BA 1976, also a 1980 graduate of

UMKC Dental School, is also practicing dentistry in St. Louis and **Greg Genova**, BA 1976, is practicing medicine in St. Charles.

1977

Victor Granat, BS, ran the St. Louis County Crime Laboratory for several years and then worked for a small company in St. Louis that manufactured and sold industrial cleaners. More recently he became a Technical Service Chemist for HCI Chemtech. Brenntag had purchased the company, so the name was to change soon after he contacted us. He is responsible for reformulating materials and advising the company and customers on technical issues related to the industry. He is having a great time getting to use GC, GC/MS, UV, FTIR, AA, ICP, HPLC and classic wet chemistry all the time. At the time his company was looking for two chemists.

Lance Helwig, BA, is an Associate Fellow at MEMC Electronic Materials Co in St. Peters, MO. He says that Dr. Armbruster was influential in his initial employment at MEMC, then Monsanto in 1967. He acknowledges Dr. Armbruster's role in his successful career. Lance and his wife Carol have been married since 1966 and they have four children and ten grandchildren. They are still living in the house in which he was raised, in Jennings, and from which he first attended UMSL in 1965. He has been a Director on the Jennings School board since 1983.

Mark Owens, BS (MS 1982) has been at Mallinckrodt for 15 years. He recently started working on a degree in Computer Science and has taken two courses so far.

1978

Joseph Bulock, BS, (MS 1982), who had been with *Monsanto/Searle/Pharmacia*, is now with *Amgen*, in Thousand Oaks, California as a patent attorney.

Elizabeth Keath, BA (and BA Biology), is Associate Professor of Biology at St. Louis University and her research program in the molecular biology of fungal pathogens were featured in a St. Louis University magazine. Her research is supported by grants from The National Institutes of Allergy and Infectious Diseases. She is also the recipient of a Burroughs Welcome Scholar Award in Pathogenic Molecular Mycology. The Editor often sees Betsy and her husband Bill playing golf at Glen Echo Country Club where we are all members. In late July they were about to leave for a holiday in Ireland with Bill's folks.

Cheryl (McLean) Shea, BA, (MBA Washington University) is President of *Creative Marketing Solutions*, recently added Greater Grace Church, to her list of clients, which also includes Watson Coatings Inc., Allied Medical College and StreetPrint Pavement Texturing. Cheryl is a fourth trimester student at Logan College of Chiropractic and he just won the 2001 Sylvia Ashworth Scholarship, an essay competition, which is earmarked for single mothers attending Chiropractic College.

1979

Joan Kunz, BS, was beginning her 14th year at Augsburg College in St. Paul when she contacted us last year. She was stepping down as dept chair (thankfully) after 6 years in that post. She is in a four-person, ACS accredited, department. With heavy teaching loads, the chair duties are an add-on, not a substitute for other duties. She enjoys the UMSL CHEMIST. They are working on a new science facility at Augsburg; that will house physics, chemistry, biology, mathematics and psychology. They are currently in a 50 year-old building with no capacity to expand, no space for research or new equipment, and no ability to fully meet safety codes and changing technology needs, so she looks forward to moving into a new facility by 2004 or 5.

1980

Debora F. Bergstrom, BS, was featured in a commemorative issue of Chemical and Engineering News (March 26, 2001, p 117) celebrating the 125th anniversary of the Society. The theme was *New Voices: Young Chemists look at the Future*. She is a group leader of Designed Materials Science and Technology at Dow Corning Corporation in Midland MI. She received a PhD degree from the University of Michigan in 1988.

Charles R. Thierheimer, BS (MS 1983), continues to maintain contact with us and has been very helpful indeed to us. He stayed in Corvallis when colleague Dennis Parazak moved to San Diego but transferred to a manufacturing process chemistry position.

1981

Gary Luebke, BS, left St. Louis after 7 years at Petrolite in 1989 and moved to Cedar Rapids Iowa to work as a polymer chemist at Penford Products. They are mainly a specialty carbohydrate producer and make some synthetic polymers such as styrene-butadiene latexes grafted onto starch. Penford makes products mainly used in the paper industry such as paper coating binders and additives used at the paper forming part of the paper making process. He spent 8 years doing R&D work on paper coating binders then left to work at Harcos Chemical in Kansas City in 1997. At Harcos he did surfactant product development work. Last summer he and his family visited Cedar Rapids for the first time since we left in '97 and they decided then and there that they really missed Cedar Rapids and insisted that he get his old job back at Penford. So now he is back at Penford working on polymeric additives for the paper forming part of the paper machine, also called the wet-end. His family consists of his wife Jan, a 16 year old son Steven and 10-year-old Sara.

Dennis Parazak, BS (MS 1987, Ph.D. 1996), transferred to San Diego the first week of January, still with Hewlett Packard. He was working on inks for printers intended for home and home offices. His new assignment will be more for networked work-group printers. The family is doing well. He and Lynn have a son Eric is approaching 4 and mostly over the terrible twos. They have a new house for about 3 in Oceanside, about a 45-minute drive to work. His patent portfolio is increasing and is up to five now with three in the last 15 months. We are grateful to Dennis for helping us get

in touch with alumni whom we had not heard from for several years, through his extensive e-mail list.

Cynthia Woodall, BS, has been at Boeing (McDonnell-Douglas) since graduation. We saw Cindy at the Awards Banquet that was held for the Academy of Science of St. Louis at the new Millennium Student Center on campus in April when Dr. Murray received his award.

1982

Mary (Hays) Warmbrodt, BS, is Manager of the Organometallic Catalysis Research Group at *Aristech Chemical Corporation* in Pittsburgh, where she has been for 13 years. She received her Ph.D. degree at Washington University and did postdoctoral research at the University of Rochester.

Steven S. Lawrence, BS (Ph.D. 1989) continues to win awards in his role as chemistry professor at Saginaw Valley State University. He was the first recipient of the TLTR Innovative Use of Technology in Teaching Award. An award presentation and reception was held in his honor last November at SVSU. He informed us that he would be leaving for Japan this year to assist SVSU's sister university, Shikok, in catalysis, English and teaching technology. He remains chair of the chemistry department but says he has been very unsuccessful in recruiting Bill and Dawn Shiang to accept adjunct professorships.

Anis Qureshi Ashraf, Ph.D., now has her own company in the Houston area. We heard from her earlier this year. She has two NIH SBIR Phase I grants so it appears that her company has made a good start.

Mark Stehlin, BS, was a casualty of the sale of Petrolite in that rather than move with the company to Houston, TX, he chose to stay in St. Louis and was out of work for 5 months prior to hiring on with Sigma-Aldrich as an inside salesperson three years ago in the Fine Chemicals Division. He became manager of the inside



Faculty at the banquet in honor of former Congressman William L. Clay after the naming of the Center for Molecular Electronics Building for him. Pictured, left to right, are Physics Prof. Bernard Feldman, Jim O'Brien, Keith Stine and Gordon Anderson.

sales group and also of the sales support groups for domestic and international sales with a total of 22 people reporting to him. On the personal side, his boys are now 9 and 13 years old. The 9-year-old plays soccer, baseball, and electric guitar. The 13-year-old plays the violin. He has been married for 16 years to Mary. She is a full time mom and part time nurse. He does volunteer work for an organization called Compassion International and he helps find sponsors for kids living in poverty in developing countries. He has been to Haiti twice and got to meet a child he and Mary had sponsored for several years. His volunteer work has become a major part of his life. He helps coach a baseball and soccer team and is the soundman for the church band in which Mary sings and plays guitar. In March that he had just moved to *Affina* where he will be managing a group of sales support people. *Affina* provides sales support for Monsanto's agricultural division. His move was a very quick one and made possible by the Vice President who hired him at *Sigma-Aldrich* who had moved to *Affina*.

Dr. Greg Lumetta, BS (Ph.D. 1987), is co-editor of the volume *Calixarene Molecules for Separations* published in the ACS Symposium Series. It is based on his organization of a Symposium in the Separations Science and Technology Subdivision of the Industrial & Engineering Chemistry Division at the Spring ACS Meeting in Anaheim last year. Greg works at the Pacific Northwest Laboratory operated by Battelle Memorial Institute for the U.S. Dept. of Energy in Richland, WA.



Dr. Janet Wilking in the NMR Facility

Chandrasiri Somawardhana, Ph.D., is running his small company in San Antonio, TX, and working very hard to make some money from the lab. Last year he hired a chemist so now he has to work harder to fulfill his obligations towards him. He does contract work for companies and is interested in expanding his clientele.

1983

Fatemah Ghasedi BS 1983 (MS 1989), continues to teach organic chemistry courses during the summer. Fatemah teaches at East

Central College in Union, MO. She is also in our Ph.D. program, working in the laboratory of Professor Pigge and we understand her work has led to three publications with more to come.

L. Dee (Lange) Bianca, BS (Ph.D. 1990), was teaching chemistry as an adjunct professor at Cal State - San Marcos when we last heard from her about a year ago.

David Miller, MD, BA (Chemistry and Biology) continues to practice family medicine and urgent care in the Crestwood/Webster Groves area – although now he is a "solo practitioner" having bought his practice back from BJC Health Systems last year (he is much happier!). His sons, Christopher and Max, are now 3 years and two years old respectively and he enjoys chasing them around the house. Currently Treasurer of the St. Louis Academy of Family Physicians he was recently elected to the Board of Governors of the Missouri Academy of Family Physicians. He also serves on the Board of Governors of the University of Missouri-Columbia Medical Alumni Association. He is eagerly awaiting the new Star Trek series and will eventually get around to finishing his Masters degree in Health Management at Webster University (if they don't have another child).

Dawn L. Shiang, BA (Ph.D. 1987), has a relatively new position as an R&D director for Fabricated Products Division at Dow Chemical Company. You can read more about Dawn's professional activities later in my description of her Distinguished Alumni Award. She was building a house with ex-president Jimmy Carter, Rosalyn Carter and Rosie Greer in Georgia for Habitat for Humanity recently. She came home very sore and with lots of blisters. In her new job she has learned a lot about building materials, especially those made by Dow. In fact Bill (**Shiang**, see below) says that she gets toe to toe with their architect on HER remodeling project on their house. Apparently she doesn't even ask Bill any more. The boys a Will and Alexander were 8 and 5 respectively when she contacted us.

Mark Vilmer, BS, who has a MS degree from the University of Missouri-Columbia and a Ph.D. degree from the University of Toledo, has served as Acting Director of the St. Louis City Health Department for almost a year. The last we heard was that he was hoping to be allowed to take the examination, which would achieve Board certification, if he passed, by the American Board of Clinical Chemistry. The alternative was to become a program manager. We understand that is what happened.

1984

Dale Lanser, BA, is involved with instrument maintenance and quality control at Mallinckrodt in St. Louis.

Shankar B. Ranavare, Ph.D., is Research Associate Professor in the Department of Electrical Engineering at the Oregon Graduate Institute of Science & Technology in Portland Oregon and also Research Associate Professor, Department of Chemistry at Portland State University.

William R. Shiang, BS (Ph.D. 1989), has a new role as global supply chain leader for several agricultural activities with the Dow

chemical company. Although he tells us that his days in the lab are almost gone, we read in C & E News last February that he was scheduled to present a paper in Hongkong at the 4th International Conference on Organic Process Research and Development on "Process Chemistry Related to the Experimental Rice Herbicide". He was also recently invited to give a plenary lecture in Basel Switzerland at the IUPAC International Congress. Bill now coordinates a global team to deliver products all over the world; and he travels all over the world. When we spoke this spring he had just returned from Brazil and was planning trips to Japan, Brazil, France, Germany and the UK before June.

1985

Rajiv Banavali, Ph.D., has been promoted at the Rohm and Haas Company in Houston. He was named Research and Development Manager of a new organization called organization called Specialty Organics. Formed by combining the Performance Marking Technologies, Organic Specialties, and the group he formerly headed Primenes. He is responsible for all research, product and process development, and technical support for sales and market development initiatives for all market segments globally. This will entail oversight and coordination of all technical activities currently located at Paterson, Houston, Boston, Ringwood, Valbonne (France), and Dewsbury in Yorkshire, England.

1986

Gregory A. Hileman, MS, we note is now Dr. Gregory Hileman and a Production Manager at Glaxo-Wellcome Inc. in Research Triangle Park, North Carolina.

1987

Dorothea Bean, MS, is teaching at Ursuline Academy in St. Louis. She spent the summer of 1999 at a Flinn Chemistry Workshop in Fort Worth Texas.

1989

Alicia Beatty, BS, who had been doing postdoctoral research at Kansas State University and filling in as acting departmental X-ray crystallographer, has a new position. She is now Research Associate Professor at the University of Notre Dame. She is in charge of small molecule X-ray diffraction for the Department of Chemistry and Biochemistry and still involved in her own research in crystal engineering (small molecule and coordination chemistry - mainly solid state assembly through hydrogen bonding interactions). When we contacted her in the early spring, she had already done over 50 structures and was excited about giving her first invited talk at the American Crystallographic Association National meeting in LA in July.

Gary Wester, BA (MS 1992), was in Wyoming last year at this time. Since then he took a position at MEMC in St. Peters MO, but now he works for Pfizer Inc. in Kansas City.

1991

Todd Boehlow, BS (Ph.D. 1996), is a Process Research Chemist at Pharmacia (formerly Monsanto) in St. Louis. We understand he has bought a house in Chesterfield.

1992

Jack Hammer, BA lives in Hamden CT and work for *Neurogen Corporation* as a Computational chemist. His specific title is Senior Scientist. He spent the first week of July 2000 in Canterbury in Kent, England where he was working on a project for Pfizer. *Neurogen* licensed a drug discovery technology to Pfizer and Jack spent the time training the Pfizer chemists. His wife Ellen was able to join him so they made a nice vacation out of it. He adds that it is a wonderful country. Jack received his Ph.D. degree from Yale in the late 1990s.

Jean (Huhman) Vincent, BA (MS 1993, Ph.D. 1997), was promoted recently to the level of Principal Research Chemist in the electronics/new products division at Air Products. She was planning to visit **Robert Stockland** (MS 1996, Ph.D. 1999) at Bucknell University his summer to give a seminar. Her husband John recently started a new job. It is with a much better company than he had been working for and it is still in New Jersey.

Alexander J. Pitts, BS, was recently promoted to Senior Scientist in Product Development at *American Pharmaceutical Partners* a Chicago-area generic drug company which manufactures mainly antineoplastic, antibiotics, and other compounds with a barrier to market entry. He tells us that most of their product line is focused on injectable products which are marketed directly to hospitals. Alex joined APP, on November 1998, as an Associate Scientist in the Method Development Group of Product Development. He was promoted to Scientist in January 2000. He came to APP with 6 years of related experience from Oread Laboratories, Mallinckrodt Chemical, Scientific Associates, and Environmental Science and Engineering. His work has involved the "universal headspace GC residual solvent method", and he had been very successful with the company. Alexander married Cindy Sumner 1/23/99 and Jeremy Michael Pitts was born 4/30/00.

1993

James Essinger, MS, who had been with Monsanto for several years, has returned to his native Ohio, joining the Scotts Company, in Marysville Ohio, in August 1999. He was promoted to Manager, Formulations - Process and Formulation, in April 2000. He and his family are doing well and enjoying being back in the Buckeye State.

E.Thomas Keufler, Jr., BA (Ph.D. 1998) was teaching at three Rivers Community College in Poplar Bluff MO. Now we understand he is working in industry in St. Louis.

Matthew W. Mahoney, BS, was at the Alumni Reception last fall when we honored Dr. Garin. Matt is a chemist at Pharmacia (Monsanto) in St. Louis

Jean A. (Schmidt) Stark, BA, is a veterinarian at Rolling Hills

Veterinary Hospital, in Columbia MO and lives in Sturgeon MO. She was previously employed at the Animal Emergency Clinic in St. Louis where she went after graduation in 1977 from the UMC Vet School. She was married Darrell Stark in June 1999 and began her current position in Aug. 2000.

1994

Sean D. Dingman, BS, received his Ph.D. degree in solid-state chemistry at Washington University in 2000. He works as a processing chemist in the phosphate technology group at *Astaris Group LLC*, formerly Solutia, which spun off from Monsanto in St. Louis a few years ago.

Ali Kasiri, MS (Ph.D. 1998), was with ABC Labs in Columbia MO, and then he spent some time working in Madison Wisconsin. Now we understand he has returned to Iran.

April Stover, BA, is teaching science at Normandy high school. She was in the department this summer as a participant in the STARS Program. This involves both students and teachers working as researchers and she was in Dr. Stine's lab.

1995

Kevin G. McHugh, BA, has been a Research Technician at KV Pharmaceutical, in St. Louis for the past four years.

Michael Pasioka, BS, keeps in touch with us. Recently he went to Mexico City to visit **Angel Hayakawa**, BS 1996. After visiting his company, 3A Lab, Mike is very appreciative of the regulations in place here in the US governing pharmaceutical production. Angel's doing a good job, and his experience with 2 companies here in St. Louis will help him. Angel's is frustrated in trying to get the Mexican authorities to validate his UMSL degree. If it's not validated, he'll have to return to school and earn a Mexican degree. When he is not globe trotting, Mike is working at KV Pharmaceutical in St. Louis. He does some rotating bottle dissolution, AA work, and some wet chemistry. He says the job isn't very challenging, doesn't pay well, offers little opportunity for advancement, and is 3rd shift. He found the 3rd shift to be particularly disagreeable but we heard recently that he would be on days soon. When he is not working, he has been studying programming. He completed the Chancellor's Certificate on the Microcomputer through UMSL's continuing education program, and is finishing up an intro to Java programming course at Meremac CC. He really likes programming and wants to learn more. We understand that he and Jonathan Bould (former postdoc and current research collaborator with yours truly) have been working on a database of borane crystal structures. Mike sent us photos; one of him on the Calzada de los Muertos (Avenue of the Dead), and one of Angel and his girlfriend, Herren, taken on the Pyramid of the Sun posing in front of the Pyramid of the Moon. Both these photos were taken at Teotihuacan, a pre-Aztec site. It is one of the most amazing places he has ever visited and to compare he says he needs to go to Cairo.



Dr. Nigam Rath working in the X-ray Diffraction Facility

Michael Groaning, BA (MS 1997), sent us a message when he arrived in Switzerland. Mike completed a Ph.D. degree at Colorado State University and spent a month with Professor Chris Spilling here last summer. He went to Zurich to work in the laboratory of X. Y. Carreira at the ETH. He is working on the completion of a total synthesis of *Axinellamine* which is described in (JACS 2000, 122, 8793). He is working on the bis-quanadine portion of the molecule and if the initial studies on a model system work out, he will probably go back and make the core as described in the paper above and do the real thing. We heard recently that he just spent a weekend cycling from Zurich to Locarno (about 200-210 km) and got to see part of the Tour de Suisse and Lance Armstrong!

1996

Radu Duta, BS, had been working for a computing company, BTW which makes Point of Sale systems for parking garages. Sounds a bit mundane, he tells us, but it's an 8-billion dollar/year industry, and there is some money to be made. He changed jobs and is now working in a small company (2 people) to try to get a product wrapped up and out the door (sic), and then try to grow the company to something more reasonable; 15-20 people or so. We hear that he is having lots of fun doing it!

Hong Fang, Ph.D., is now doing computational chemistry at the National Center for Toxicological Research, in Jefferson, AR. She has learned a lot and was taking a computer-programming course when we last heard from her. After publishing a paper on data mining of estrogens, she received 50 reprint requests. The Journal of Women's Health and Breast Cancer Research asked her to submit the next paper there. A far cry from the metallaborane chemistry she did with the editor for her Ph.D. degree!

Yahia Hamada, MS (Ph.D. 1999), who has been a visiting professor at Hendrix College in Arkansas, will be moving to Wayne State College in Nebraska to a tenure track position. He and his family are doing well as we discovered when we met him at a recent ACS meeting. Hasan the baby was one year old on June 4th and his wife Hanan is enjoying Arkansas and learning the American Way. He has enjoyed his stay at Hendrix but looks forward to moving to his

new appointment.

Gerald Hook, MS, has been active in the St. Louis Section of the ACS for some time, especially in the area of career resources. He was elected secretary of the Section for 2001.

1997

Eric Bruton, BS 1997 (MS 2000), is completing his Ph.D. on hydrogen bonding in inorganic chemistry working in the group of Lee Brammer and co-supervised by Professor Chris Pigge. His third publication on halogens as hydrogen bond acceptors recently appeared in the new ACS journal *Crystal Growth & Design*.

Toni De La Cruz, Ph.D., who has been doing postdoctoral work at Washington University School of Medicine since graduation, will move to Creighton University as a lecturer in organic chemistry.

Rafaat Shaltout, Ph.D., is attending Law School at the University of Chicago and also working for a law firm in Chicago, according to his sister Mona who attends UM-St. Louis.



Pauline Bellavance (Ph.D. 1978), Chair of the St. Louis Section of the American Chemical Society presides at the Midwest Award Banquet.

Yanina Levchinsky, BS (MS 1999), spent the Christmas holidays in Glasgow, Scotland with her husband **Brian Grimmond** (Ph.D. 1999). They enjoyed visiting art galleries, museums, theaters, architectural landmarks, etc. as well as Edinburgh. Yana and Brian moved to Albany, NY in March, to start work at GE. Yana is in the silicone division, so she will be right at home, since she did research in transition metal silane complexes here with Dr. Janet

Wilking. She was planning to attend the Organosilicon Symposium, and looked forward to seeing Drs. Corey and Wilking there as well as Robert Stockland and Jean Huhmann.

1998

Hossein, Shabany, Ph.D., is a Discovery Chemist at Pharmacia in St. Louis. He was a postdoc at Washington University Medical School following completion of his degree in Chris Spilling's lab, and prior to taking up his current position.

Isabel Vasconcelos, Ph.D., who also did her thesis research with Dr. Spilling, is a manager with *Ecolabs* in Brazil. We hear she had a baby girl and would like to hear more details.

1999

Michael Bills, BA, is working for Procter & Gamble in Cincinnati, in the Corporate Research Division of the R & D Department. This is a specialized analytical group that serves the entire company, so he gets a wide variety of problems to solve. Specifically, he is being trained to do solids and imaging NMR. He was finding this to be challenging because of his limited previous exposure to this field but he is enjoying the work and

finds it fascinating. He is learning to use a 500 and 300 MHz HRMAS Solids/Imaging, and a 200 MHz HRMAS Solids spectrometer. So, on top of trying to understand NMR theory he is trying to learn how to operate three different instruments.

Andrew Breite, BS, is a graduate student at Purdue University doing biochemistry research. He is the Chemistry Graduate Student representative on the Graduate Advisory Committee at Purdue.

Andrew Granda, BS, is a Research and Development Chemist in the Flavor Division at *Danisco Cutler* in St. Louis.

Brian Grimmond, Ph.D., moved to the catalysis division of GE in Schenectady, NY, in March, after almost two years postdoctoral research at Yale University with Jack Faller. He recently published a full paper in JACS, his third publication with Faller.

Martin Hayes, BS, who is doing graduate work at MIT, was back at UMSL in August for his wife Antoinette's graduation. They moved into a new apartment on campus. Martin says his research is slow and meticulous, but he is learning new things everyday and was beginning to make progress on his project (intramolecular [4+2] cycloadditions with benzynes and conjugated enynes) when we heard from him last fall.

Robert Stockland, Ph.D., was married last summer and he and Barbara moved to his new position at Bucknell University in Lewisburg, PA. He was also very pleased to receive a *Dreyfuss New Faculty Research Award* as he began his new career. Robert finished his Ph.D. degree here with Gordon Anderson following a BS degree at St. Cloud State University in Minnesota. He first came to UM-St. Louis as a summer student and work in

Anderson's laboratory in 199X.

Zhepeng Wang, Ph.D., who completed his degree in Wes Harris' laboratory, has returned to St. Louis after a postdoc appointment at Vanderbilt University in Nashville, TN. He is working at the Washington University Medical School doing a combination of mass spectrometry and molecular biology. We are not quite sure how he got from transferrin to mass spectrometry, but it is nice to have him back in St. Louis.

2000

Ricardo Delgado, Ph.D., who completed his doctoral research with Gordon Anderson is teaching chemistry at Duchesne High School in St. Charles.

Larry Maston, BS, moved to California following graduation and was continuing his studies at UC-Riverside in order to complete a MBA degree.

Donna Andrauskas Ph.D., who worked with Dr. Stine, recently took the position of sales engineer with Bio-Rad in Cambridge, Massachusetts after completing a postdoctoral position at Penn State University. She will mainly be involved with FTIR instruments.

Joe Ocheskey, BS, is a Research Technician in the Division of Radiology at the Washington University School of Medicine. He is taking course in biochemistry, molecular and cell biology at UMSL

2001

Luis Llamas, MS., just defended his MS thesis. He did research with Dr. Chris Spilling and is joining Pharmacia as a Chemist.

Paul McQuade, Ph.D., who completed his degree in Dr. Barton's lab last August, is doing postdoctoral research at Washington University Medical School with Dr. Michael Welch. Paul was married to Jennifer last August and they now live in a town house in the Soulard area of St. Louis. We understand that, among other things, he is doing some mass spectrometry these days.

Philippa Jayatilleke, Ph.D., who did her research work with Dr. Welsh, has been working at *Tripes Inc.* in St. Louis and also organizing the Computational chemistry Topical Group for the St. Louis Section of the ACS.

Graduates, Aug. 2000 through May 2001

AUGUST 2000

Gretchen Hoel, BS

Mesfin Janka MS

DECEMBER 2001

Chad Cluts, MS

Shiyue Fang, Ph.D

Jennifer L. Fine, BS

Philippa Jayatilleke, Ph.D

Matthew A. Lanham, BA

William Brandt Majors, BA

Paul McQuade, Ph.D

Mark Nagy, MS

Gary Nicholls, MS

Jamila Zahara Owens, BA

Barry Parnas, MS

Swati Puri, Ph.D

Edyta Schranz, MS

Michelle Sharpe, MS

MAY 2001

Katherine M. Block, BS

Kelly A. Botwin, MS

Carmen R. Bryant, BS

Jennifer Doucette, BS

Daniel Grant, BS

Erik R. Hoefgen, BS

Matthew Holstein, BA

Paul E. Johnson, BA

Derick Kaspar, BS

Angela V. Schmitt, BS

Kevin Trankler, MS

Wei Zhu, MS

Christopher Wiczorek, BS

The totals for the 35 years since we began awarding degrees are as follows: BA/BS 760, MS 176, and Ph. D. 95 for a grand total of 1031 graduates in our 38-year history. The first BA/BS degrees were awarded in 1967 and the first postgraduate degrees were awarded in 1977. The Ph.D. degree program was started in the 1971-72 academic year and the MS degree program in 1973-74.

The Faculty

Gordon K. Anderson was re-elected by his colleagues recently to a second three-year term as chair of the department. He still insists he is not going to attempt to beat the record of 18 years held by Dr. Barton. In the fall, he finally caught up with the times and moved his research lab into newly renovated space in the Research Building. His students appreciate having a lab with windows! Dr. Anderson presented a paper at the 34th International Conference on Coordination Chemistry, held in Edinburgh, Scotland, last July. He published his 100th research paper earlier this year. In October he hosted the annual Mid-America State Universities Association (MASUA) chemistry chairs meeting. Although he has now been in the department for 20 years, and must now be considered one of the "veterans", he says it is hard to believe he is old enough to have a daughter starting college this fall, but it is true.

Lawrence Barton has just completed an atypical year. He served as Chair of the new Faculty Senate and University Assembly. A new faculty governance structure was established last year and he has been trying to make it work. The jury is still out. He also serves on the four-campus Intercampus Faculty Council and meets with the administration regularly as a member of the Chancellor's Cabinet. This has led to a slightly lower teaching load but his research program in metallaborane and related chemistry continues. His NSF-supported program, also supplemented by a Missouri Research Board grant, allows him to support two postdoctoral fellows, Dr. Oleg Volkov from Russia and Dr. Mitsuhiro Hata from Japan. He published four articles in 2000 and this year will be more productive. He and his colleagues will be presenting papers at the ACS meeting in Chicago and he will travel to Brittany, France and also to Tayside Scotland to present papers in early September. He also intends to go to the biennial Boron Americas Conference in Death Valley at the beginning of 2002. He is busy this summer when not writing the UMSL CHEMIST catching up on writing papers and grant proposals. He was heavily involved in service work this past year, running the

exposition at the Midwest regional ACS meeting in St. Louis and nominating colleagues and former students for awards. He was awarded the 2001 *Chancellor's Award for Service*. On the personal side he and Pat have taken up golf again and joined the golf club adjacent to their home. Golf is no easier now than it was almost 50 years ago when he first played the game.

Donald F. Becker was pleased to publish his first paper since joining the department at UMSL. It was published in *Biochemistry* (Vol. 40, pp. 4714-4721) and describes the electrochemical properties of the multifunctional PutA flavoprotein from *Escherichia coli*. PutA is a fascinating enzyme from bacteria that functions as both an enzyme and a transcriptional repressor. This past year, Don received an NSF CAREER Award and a grant from the Petroleum Research Foundation to support his research. He also received a grant from NIH to pursue structural studies on PutA in collaboration with Dr. John Tanner at the University of Missouri-Columbia. The research activity in Don's lab has noticeably increased with one postdoctoral associate, two graduate students, and two undergraduate students now in his group. Don's teaching activities are focused on incorporating new techniques into the laboratory curriculum of Biochemistry 373 that are fundamental in the life science industries. Last fall semester, students generated a DNA fingerprint from their own genomic DNA. This year he plans to have students gain more experience in biotechnology by including recombinant protein expression in the curriculum. This summer, Don will be attending the Enzymes, Coenzymes, and Metabolic Pathways Gordon Research Conference in July at Kimball Union Academy in New Hampshire. He will also attend the national ACS meeting in Chicago in August.

Lee Brammer is currently in the process of relocating to the University of Sheffield in the UK, where he will hold an appointment as Reader in Inorganic, Supramolecular and Solid State Chemistry. However, he will retain an appointment as Research Associate Professor at UM-St. Louis, where his current research group consisting of a postdoc, three Ph.D. students and one undergraduate will continue working on projects in the area of supramolecular chemistry and applications of hydrogen bonding in inorganic chemistry. Much of this work is funded by a grant from the National Science Foundation, which will be managed in collaboration with Professor Gordon Anderson from this point. Dr. Brammer will continue to serve as a co-editor for the journal *Acta Crystallographica* and (until Dec. 2002) as Secretary of the American Crystallographic Association, a 2,000-member professional organization for the field of crystallography. He was also recently appointed as an expert analyst and editorial board member of the journal *CHEMTRACTS-Inorganic Chemistry*.

James S. Chickos spent his summer vacation cycling in Western Ireland this year. We understand he has a post doc in his lab who is from Germany but came here via a university in Portugal.

Joyce Y. Corey was the star of the ACS Midwest Regional meeting this year. She was presented with the Midwest Award – only the second woman ever to win this award, and the second UMSL chemist to do so. This past year she published two research papers in *Organometallics*, one in the *Canadian Journal of*

Chemistry, and a chapter in the book "Silicon Containing Polymers: The Science and Technology of Their Synthesis and



Joyce Corey during her presentation of the Midwest Award Address

Applications". She gave presentations at the 34th Organosilicon Symposium, White Plains, NY, May 2001, Pacificchem 2000, Honolulu, Hawaii, December 2000. She tells us that she leads a very pedestrian life - no excitement - mostly work, so she couldn't possibly write an entire paragraph. As I write this she is vacationing in Maine - something she does annually.

Valerian T. D'Souza finds himself temporarily with an empty lab as all his graduate students have completed their work. He has a part time student and his last student, Henghu Zhu, jointly directed by Dr. Welsh had his oral exam in late July. This past year, Dr. D'Souza gave invited talks at the International symposium on cyclodextrin chemistry in Ann Arbor, MI and to the Indian Pharmaceutical Association in Bombay. He is also helping organize a Supramolecular Chemistry Workshop to be held in Havana Cuba. He has recently assumed responsibility for the departmental web page and will also take over the alumni affairs activity in the department but that activity will be gradually developed as he takes over from Dr. Barton.

Alexei Demchenko joins us this fall from the University of Georgia. He received his M. Sc. in Chemical Engineering from D. I. Mendeleev University of Chemical Technology of Russia, Moscow (1988) and Ph. D. in Organic Chemistry from the N. D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow in 1993. He was a BBSRC post-doctoral research fellow at the University of Birmingham, U K, and most recently a research assistant in the Complex Carbohydrate Research Center at the University of Georgia, Athens. His research interests are in carbohydrate chemistry. He will occupy

Bob Murray's old laboratory.

Cynthia M. Dupureur joins the faculty this fall as Associate



Professor from Texas A&M University as our second biochemist. Cindy is an established scientist having raised more than \$650K in external funding and published 22 peer-reviewed articles. She is a native St. Louisian and received her undergraduate degree at Southwest Missouri State University. She did her Ph.D. degree at Ohio State and postdoctoral work at Caltech. Her research program involves studies into the structure and

function of restriction endo- *New faculty colleague Dr. Cindy nucleases.* She and her students *Dupereur* students have also been exploring the role of required metal ions in both DNA binding and catalysis. Their work involves enzyme kinetics, calorimetry, fluorescence and NMR spectroscopies. Multidimensional heteronuclear NMR spectroscopy is such an important tool in her research that she is an expert in it and will be teaching a course on the subject this fall.

Harold H. Harris continues to work with UMSL undergraduate chemistry majors to produce The Chemical Education Resource (<http://www.umsl.edu/~chemist/books>) and to write the popular monthly column, Hal's Picks. The next Journal of Chemical Education "Buyer's Guide", which is derived from his archive, will be coming out with the September issue. Dr. Harris also has an online publication coming out soon in Journal of Chemical Education, provocatively titled "Carnot Knowledge", but he says not to expect anything provocatively explicit. It is an example of the way in which symbolic mathematical processors such as Mathcad are being used to enhance the teaching and learning of physical chemistry. The article will be available soon at <http://jchemed.chem.wisc.edu/JCEWWW/Features/McadInChem/index.html>. Dr. Harris is working with colleagues from UMSL, UMC, and UMR on an NSF-funded Pilot Systemic Initiative, "Enhancing Leadership for Middle Level Science", intended to improve middle school science education in Missouri. Locally, the Normandy School District is participating, along with districts from Independence, Columbia, and St. James. As a consequence of the exhibition of the Hitchcock collection of alchemical books that he organized for the Midwest Regional Meeting in St. Louis in 2000, Dr. Harris has been invited to present a paper describing the books at the ACS meeting in Chicago in August. Dr. Harris' suggestions for summer reading (largely derived from Hal's Picks) appeared in the June, 2001 issue of Journal of Chemical Education **2001** 78 (6) 707-708.

Wesley R. Harris has attended two meetings since Jan 2001. He attended the Spring ACS meeting in April and presented a poster on iron removal from transferrin by phosphonocarboxylates. He also attended a meeting of PI's funded under an NIH RFA on "Biology of Iron Overload and New Approaches to Therapy" in

Bethesda, MD in April. At that meeting he presented results from the current NIH collaborative project with Chris Spilling and Bill Welsh. His research program continues to focus on serum transferrin. The group will be presenting three talks at the upcoming Chicago ACS meeting. In addition, they are starting a project on a different protein from pathogenic bacteria. This protein bears some resemblance to transferrin, and is often referred to as "bacterial transferrin". They hope to be able to develop new metal-based antibiotics by targeting the metal binding site of this protein. They have one paper in this area, co-authored with Peter Sadler's group from the University of Edinburgh that has been submitted for publication. Outside of work, the current focus is on teaching his son to drive. There is a war raging between his son and his Honda's standard transmission, and at this point, the transmission is winning. Jonathan's solution to the problem of shifting gears is to never allow the car to come to a stop, but dad has been discouraging this approach.

James J. O'Brien along with Dr. Keith Stine ran Career Day for the Local Section of the ACS this year. It was held at UM-St. Louis. Although he doesn't currently have any graduate students Dr. O'Brien is typically in his lab working on his research on intracavity laser spectroscopy of small molecules.

F. Christopher Pigge graduated his first Ph.D. student (Shiyue Fang now a postdoc at Purdue) in January 2001. He completed work on an invited review article for the journal "Current Organic Chemistry." The review presents an overview of applications of arene ruthenium complexes in organic chemistry. He attended and presented a talk at the ACS National Meeting in San Diego and was recently awarded a grant from the NIH-NIGMS for the study of synthetic applications of arene ruthenium complexes.

Nigam P. Rath has been busy running one of the best service X-ray diffraction laboratories in the country. The x-ray facility collects more than 200 data sets per year. His work has resulted in more than 25 publications. He also participates in various teaching and outreach activities. Major efforts are underway to set up a state of the art regional x-ray diffraction facility at UMSL. This will enhance the user base and visibility of the department. We are trying to upgrade the existing area detector to the next generation larger, more sensitive detector. Nigam will be very happy to collaborate with you for all your single crystal x-ray diffraction structure determination needs. Chemists in academia and industry can use our facility and expertise.

Christopher D. Spilling was promoted to Full Professor (effective Fall 2001). He also moved into Charlie Armbruster's old office at the end of last summer, claiming that after 12 years at UMSL he needed more space for the deepening piles of junk. He attended the Gordon Research Conference on heterocyclic compounds in Newport, RI in July and will be attending the 15th ICPC in Sendai Japan July 29th and the ACS National meeting in Chicago in September. There were three new additions to group in the past year: Ph.D. students Bingli Yan and Anyu He, and postdoc MeiGuo Xin. Luis Llamas (MS) and Jon Harburn (postdoc) left to take up positions at Pharmacia and *Stereotaxis*, respectively. Continuing group members are Brad Rowe, Amy Thanavaro and Rich Willaredt. His Children are growing all too rapidly. Andrew

is 10, Robert is 8 and William is 3.

Keith Stine continues research on monolayers, now focusing on stereospecific interactions between cholesterol and membrane lipids and sphingolipids in particular. This project, related to his own earlier work on chirality in monolayers, is being pursued in collaboration with Professor Douglas F. Covey from Washington University School of Medicine. The initial results were recently published in *Chemical Communications*. He is also expecting the book *Nano-Surface Chemistry* for which he wrote a long chapter on Langmuir-Blodgett films to be published by Marcel Dekker very soon. He is also continuing some research on amphiphilic flavins synthesized by Dr. Abdul Khan, a former postdoc now at Washington University Medical School.

William J. Welsh recently returned from a tour of Europe to visit the laboratories of research collaborators, to present a seminar, and to attend a scientific conference. He presented a seminar on his laboratory's opioid research at Janssen Pharmaceuticals in Beerse, Belgium. He also visited research collaborators at the University of Exeter and the University of Leeds in the UK and attended a workshop on The Role of Computational Methods in Environmental Science at the University of York in the UK. His wife Sue and he also took some time out for hiking in the county of Devon in Southwest England, and for a short visit to the University of Cambridge. As mentioned above in the Chairman's Message, Bill is in the process of relocating to New Jersey where his wife Sue works for Johnson and Johnson.

Janet Braddock-Wilking (BA. 1985) was just promoted to Research Associate Professor. She supervised the upgrade of the Bruker ARX-500 and of the Varian XL-300 to a Bruker Avance 300 in May 2001. Users really enjoy the new spectrometer since it is easy to operate and is user-friendly. The spectrometer is designated for open access so users can obtain routine NMR data rapidly and easily. She continues a productive research program and gave a talk at the 34th Organosilicon Symposium in White Plains, New York, May 2001 and chaired a session. She will attend the Organometallic Gordon Research Conference in July 2001, Newport, RI, and will give a poster presentation on research and chair a session. She will also attend National ACS meeting in August in Chicago and will chair one of the organometallic sessions and will give oral presentation. Her new graduate student Kim Dill started research this summer towards a MS with thesis on a project co-directed by Dr. Wilking and Joyce Corey.

Rudolph E. K. Winter tells us that on August 31, this year, he is out of here. Actually he is formally retiring after 32 years on the faculty here. Rudi came to UM-St. Louis in 1969 after starting his academic teaching and research career at Brooklyn Polytechnic Institute. Rudi tells me he will be piddling around in his lab for at least a couple of years and most important, he will continue to run our excellent Mass Spectrometry Facility with the help of Joe Kramer.

Dr. Zhi Xu and Dr. David Larsen have been developing a new spectroscopic technique. The new technique is expected to dramatically increase the sensitivity of UV-Vis, FTIR, Atomic

Absorption, and circular dichroism (CD) spectrophotometer over 100 times. The invention has been disclosed to the University of Missouri. Dr. Larsen is now retired but is seen in the department every day and has been teaching for us.

Emeritus Faculty Colleagues

David L. Garin, now emeritus, will be teaching introductory chemistry this year using some "new techniques". He has just completed the monumental task of clearing out his research lab which included some chemicals synthesized by undergraduates Pete Gierer, Ken Henderson, and Dorothy (Cooke) Greco more than 30 years ago! Dave was honored at the Alumni Reception held last October.

Dr. David W. Larsen is regularly in the department and is doing some teaching. He has also been involved a range of laboratory projects including designing new mass spectrometers, building NMR spectrometers with colleagues in the physics department and most recently in collaboration with professor Zhi Xu, he has been involved in resolution and sensitivity enhancement for spectrometers.

Jane A. Miller who retired in 1992 fell during a trip to New Orleans and broke her hip. She is recovering but is still in rehab. She is walking with a cane and not yet able to get up stairs so easily. On the other hand she continues to be academically very active. She recently wrote two book reviews for the journal *Isis* and is also writing an essay on the history of chemistry at Newcomb College. She and the editor are co-authors of the poster to be presented at the Chicago ACS, The Saint Louis Section: Approaching 100 years, which is part of a series of talks on the history of the ACS through its Local Sections.



Academy President Dr. Thomas Woolsey presents Dr. Murray with the Peter H. Raven Lifetime Achievement Award.

Robert W. Murray has just returned from Vancouver, B.C., Canada where he still serves as a consultant for the Pulp and Paper Research Institute of Canada. Dr. Murray and his former postdoc, Megh Singh, are still working on a paper in peroxide chemistry. Bob and Claire Murray celebrated their 50th wedding anniversary in style this year. Bob, Claire and their seven children

organized a superb Irish Fest in early June, which was enjoyed by all. The Academy of Science of St. Louis honored Dr. Murray with a Peter H. Raven Lifetime Achievement Award. It was presented at the 2001 Outstanding St. Louis Scientists Awards Dinner, on April 5 at the Millennium Student Center on campus. Those in attendance represented a Who's Who in science in the St. Louis area

The Staff

Glenda Gillespie left the department on June 1, 2000 to take a position in the Sociology Department. Fortunately she decided that her friends and a more comfortable environment existed in the Chemistry Department and we are delighted that she is back with us. She rejoined us on March 1, and occupies the desk that Betty Eshbaugh occupied for many years, closest to the chair's office. She is very happy to be back in the department.



Glenda Gillespie, back in the office

Charmaine Henson has now been in charge of the office, serving as Administrative Assistant since May 2000. She has spent much of this year dealing with all of the changes the transition to the PeopleSoft system has involved. PeopleSoft is the new system that has been imposed in the campuses and it is not making life as easy as we had hoped. She says it has kept her so busy here that she doesn't have much time or brain power for anything else. She has been taking a 7 am spinning class a couple times a week. Ken Owens (our Scientific Glassblower) is the instructor. Graduate student Claire Brook, who works with Wes Harris, has involved in some weekend bike rides. Casey, her 14 year old Irish Setter had to be put to sleep this spring but within a few months her family found Wendy a 3 year old Setter through a rescue group that

looks and acts so much like her that they end up calling her Casey half the time. She now will answer to either Casey or Wendy!

Gordon Kerschmann has been involved in the installation of the new 300 MHz NMR spectrometer and also the upgrade of the 500 MHz instrument, both Brukers. A problem that arose quite recently was the quenching of the unity plus magnet which created quite a headache (not literal) for him and many others!

Joe Kramer continues to run the Mass Spectrometry Facility which is now a superb resource for the department. It contains the JEOL MStation JMS-700 which was installed about two years ago and the old Hewlett Packard GC-MS which has been maintained very well, thanks to Joe, and thus continues to run well. This and fatherhood has kept him almost out of trouble.



Joe Kramer in the Mass Spectrometry Laboratory

Donna Kramer, in her new position as Laboratory Coordinator, worked with the first year laboratory courses this year. Both she and Joe (Kramer her husband) enjoy quality time with their daughter, Jessica, who is 15 months old. The storeroom staff (Tom Stayton, Sean Phelps, Janet Xue, Ben Wetteroff, and Roshni Bahkta) has done an excellent job in helping to keep things running smoothly. Donna, of course, continues to manage the storeroom.

Frank May will organize yet another Missouri Ozark Riverways Operation Clean Stream trip this year. This year the Bartons will not be able to go but we understand Dr Chickos will be there.

Pat Mayberry has celebrated her first anniversary as front office secretary. She finds the work interesting and enjoys interacting with students and faculty members. Pat and her husband spent a relaxing vacation by visiting relatives in Colorado Springs over the 4th of July holiday week.

Ken Owens (BS 1980) and his colleagues from the Midwest Section of the American Scientific Glassblowers Society had a booth at the Midwest Regional Meeting held in St. Louis in November. Ken gave the 14th Distinguished Alumni Lecture last May. Clearly this was the highlight of Ken's year. He gave a spirited and interesting talk about mankind's experience with

glass, from prehistoric use of obsidian tools, through the earliest known pieces of manmade glass. Ken told us about the major developments of glass and glassblowing and how they altered the human experience. He followed this trend through the age of exploration, the age of discovery, the industrial revolution and the age of technology. Throughout the ages glass has been associated with uncountable advances in technology. This continues to this day with glass being the material of choice for the first isolation of the Bose-Einstein Condensate, a fourth state of matter predicted over eighty years ago. Ken's talk included glassware examples and demonstrations and was quite a crowd pleaser. See below for more details about Ken's career.

Ted Windsor, when asked what should go in the UMSL CHEMIST this year, said "Tell them I am still here". Following his award for being the ACS St. Louis Section, Technician of the Year Award, last year, he was nominated for the national award. Although he did not win the award – there was only one given in the country, he received a special commendation, one of only 8 in the US.

The Robert W. Murray Lectureship

This is now a well-established, and very successful, annual event



Robert W. Murray Lecturer, Professor Robert H. Grubbs with Lee Brammer and Prof. Karen Wooley of Washington University, at the reception in the Alumni Center following the lecture.

in the department. Professor Robert H. Grubbs, Victor and Elizabeth Atkins Professor of Chemistry at California Institute of Technology gave the fourth annual Robert W. Murray Lecture. His title was *Making Molecules with Metathesis Catalysts*. The lecture was held on Monday, March 19th, 4:00 pm, in room 105, Benton Hall. We had originally scheduled it in the Chemistry Colloquium Room on the fourth floor but the anticipated audience was larger than the 83 or so capacity of the room. About 150 individuals attended the lecture and about 60 the reception, which followed in the Alumni Center. Grubbs spoke about his development of the successful ring-opening metathesis catalysts that he is famous for, and also described several important applications.

We continue to appeal for contributions to the fund that supports the **Robert W. Murray Lectureship**. We have reached a plateau of about about 67% of our goal of raising at least \$50,000. Thus we are looking for some rather substantial contributions from alumni,

faculty colleagues, other faculty and administrators on the campus and colleagues of Dr. Murray in his field. If you have already made a contribution, perhaps you would consider making another one. If you find these requests to be too much, all at once, perhaps a commitment to contribute over an extended period would better suit your situation. If you are interested in knowing more about the lectureship, scheduling etc., please let me know. Dr. Barton is in charge of it this year as Lee Brammer, who did such a splendid job during the past two years, is leaving us at the end of the year.

ACS Midwest Regional Meeting

The meeting was held in St. Louis this year and almost all the organization was done by UM-St. Louis Chemistry department faculty members. The General Chairman of the conference was Dr. Chris Spilling, the Program Chair was Dr. Keith Stine and the Exposition Chair was Dr. Barton. The meeting was a great success. There were symposia on *Green Chemistry and the Second Green Revolution*, *Frontiers of Analytical Chemistry*, *Frontiers of Drug Discovery*, *Natural Products* (co chaired by Rudi Winter), *Radiolabeled Drugs to Diagnosis and Therapy*, *Supramolecular Chemistry*, *Organic/Inorganic Hybrid Materials*, *Organometallic Chemistry in Organic Synthesis*, *Biotechniques* (chaired by Greg Wall BA 1974, MS 1981) and *History of Chemistry* (chaired by Hal Harris). There were 300 contributed papers, an exposition with 44 booths and almost 900 registrants for the meeting. The meeting made about \$7,000 profit which will go into the kitty to help defray the cost of future meetings.



Drs Hal Harris and David Garin with Dr. Leah O'Brien of SIU-Edwardsville at the Alumni Reception last October.

The Lawrence Barton Scholarship

This award was established in 1999 on the occasion of the reception honoring the editor's 18 years as department chair. During the past year we were quite successful in increasing the principal such that now there is about \$22,000 in the fund and thus we are able to award \$1,000 each year to a deserving student. Last year's recipient was Karen Terry and this coming year the scholarship will go to Peter Kpere-Diabo. We will continue to accept contributions until the principal has risen so as to provide an award of about \$2,000. The award provides a stipend to a chemistry major who demonstrates financial need and who is academically successful with preference being given to first

generation college students. This award is primarily designed for juniors. If you wish to contribute to this new scholarship, please use the form at the end of this newsletter.

The M. Thomas Jones Memorial Fund

Last year we established a fund in honor of our former colleague Dr. M. Thomas Jones. The award is designed to assist graduate students at the request of Tom's widow Pat Jones. We are delighted to report that Pat made a contribution, which brings the principal up to \$10,000 thus endowing it. As we mentioned last year, this is the first fund solely directed at graduate student support and we encourage you to make a contribution if you wish the memory of Tom to be honored in this way. We expect to make the first award this coming year.



Dr. Chris Spilling with Visiting Scholar John D. Kennedy from Leeds University, UK, at the Murray Lecture reception.

Barbara Brown Fellowship for Women in Chemistry

Barbara (Willis) Brown (BA 1984) established the Fellowship for Women in Chemistry last year. The criteria are that it is to go to a female student over the age of 24. Barb would have qualified for this award when she returned to school in the early 1980s to study chemistry. She had been working as a qualified radiology technician prior to returning to school. Barb was very active as a mentor and tutor when we first taught chemistry for nurses, assisting Drs Murray and Chickos, who were teaching the courses at the time. She did research with Dr. Chickos when she was in the department. She continued her education and obtained her Optometry degree in 1988. Barb continues to practice optometry and also serves as the Development Officer for the School of optometry. If you are interested in supporting this award, why not

make a contribution?

The Eric G. Brunngraber Undergraduate Research Fellowship

We established this fellowship in 1987 following the death of Professor Eric G. Brunngraber. Dr. Brunngraber was a biochemist and neurochemist and specialized in studies of the chemistry of the brain. He was appointed professor in the department in January 1986 and had been an adjunct professor of chemistry at UMSL since 1976. He joined the staff of the Missouri Institute of Psychiatry as a biochemistry unit chief and professor of biochemistry in the University of Missouri-Columbia School of Medicine in 1975. From 1957-59, he held a post-doctoral position at the Neuropsychiatric Institute at the University of Illinois. From 1959-1975, he headed the biochemistry research unit at the Illinois State Psychiatric Institute in Chicago. As a researcher, Professor Brunngraber published more than 100 papers and a book on neurochemistry. He graduated from Columbia University in New York City, and earned a doctorate from the University of Wisconsin at Madison. He served in the Army in Germany from 1946-47 and in the Chemical Corps in the Army Reserve until 1959. His principal appointment was at the Missouri Institute of Psychiatry on Arsenal Street in South St. Louis. The institute was formally associated with the department of biochemistry at the University of Missouri-Columbia. During the period 1976 to his death, he directed the research of department undergraduates and graduate students. His only Ph.D. graduate was **Chandrasiri (Sam) Somawardhana** (Ph.D. 1982). He died on Feb. 18 1987. Eric's major contribution to the department was in the direction of undergraduate research and in teaching biochemistry, in spite of his superlative research record.

Friends, family, faculty members and alumni funded the fellowship in 1987. It was never endowed and we were able to provide stipends beginning at \$1,000 and eventually in the region of \$1250. The funds were dwindling and in the past few years we were only able to provide quite small stipends of three or four hundred dollars. Now we are delighted to announce that the Brunngraber family has endowed the Fellowship so we will be able to fund an undergraduate research student annually. This is the undergraduate research fellowship fund in the department. Ideally the fund would have enough principal in it to fund several undergraduate research students annually. If you did research here, if you wish to honor Eric or if you would like to support undergraduate research in the department, this is the place to put your contribution.

The major endowed award, the **William and Erma Cooke Memorial Scholarship**, is designed primarily for sophomores. This latter award is completely endowed through the kindness of Dorothy Greco and her family. It was established in 1991 and due to Drs Dorothy (BS 1970), and Al Greco (BA Biology 1970), it has grown such that we now give two awards per year to students with a combination of talent and need.

Departmental Awards

1999-2000

Undergraduate

The award for the *Outstanding Student in Introductory Chemistry* went to **John Shirley, Megan Mauck and Ai Keramidas**. They all received a certificate and a *Handbook of Chemistry and Physics* from the Chemical Rubber Company. The *American Chemical Society Award for Analytical Chemistry* went to **Katherine Block** who received a certificate and a one-year subscription to *Analytical Chemistry*. The *American Chemical Society - St. Louis Section's Outstanding Junior Award* went to **Kim Nguyen**. The award was presented at the annual Awards Night during the ACS St. Louis Section's Chemical Progress Week. **Katherine Block** received the *Alan F. Berndt Outstanding Senior Award* and the *American Institute of Chemists-Student Award Certificate*. *William and Erma Cooke Scholarships* for 2001-02 went to **Kykatina Gincheran and Matthew Dunn**. The *2001 Undergraduate Chemistry Awards sponsored by the Monsanto Company* were awarded to **Kim Nguyen, Jeremy Ridenour, Matthew Dunn, Viktoriya Sedelkova, Karen Terry, Lisa Emery, Noah Smith, Mark Ulrich and Matthew Marshall**. The 2001-02 *Barbara Willis Brown Scholarship for Women in Chemistry* went to **Marjorie Nutt**, the 2000-01 *Eric G. Brunngraber Undergraduate Research Fellowship* went to **Judy S. Yuen** and the 2000-01 *Lawrence Barton Scholarship* went to **Peter Kpere-Diabo**. A *Certificate of Commendation for Outstanding Performance in Undergraduate Research* went to **Michael Burgard** as did the *Outstanding Undergraduate Teaching Assistant Award*.

Graduate

The 2001-02 *Mallinckrodt Fellowship* went to **Anchalee Thanavaro**, 2001-2 *Graduate School Dissertation Fellowships* went to **Gary Nichols** and **Elizabeth Amin** and a *Graduate School Summer Fellowship* went to **Anchalee Thanavaro**. 2001 *Alumni Summer Research Fellowships* went to **Linyong Mao, Mesfin Janka, Kevin Trankler, John Coniglio and Padma Nair**. The 2000-01 *Outstanding Master's Student Award* went to **Christy Judkins** and the 2000-01 *Graduate Student Research Award* went to **Gary Nichols**. *Commendations for Excellent Performance by a Teaching Assistant* were awarded to **John Conoglio, Gary Nichols** and **Jennifer Van Wyk** and the 2000-01 *Graduate Teaching Assistant Award in Memory of Jack Coombs* was awarded to **Padma Nair**.

Alumni

The 2000 (14th) *Distinguished Alumni Lecture* was presented by **Kenneth Owens**, BS 1980 who is our Scientific Glassblower. The lecture was titled: "Sharp Objects and Fires: Daily Fare for the Glassblower." Ken has been associated with UM-St. Louis for many years. He entered as a freshman in 1974. He worked in the stockroom as a student and became stock room manager in 1978. He graduated with a BS in chemistry in 1980 and worked at Petrolite Inc., for a couple of years prior to joining McDonnell-

Douglas in 1983. Ken was a victim of restructuring in 1994. That same year he replaced Bob Cabaniss on a part-time basis when Bob was ill in 1994. He was also doing contract work, full time for AVSCOM in St. Louis. He continued to juggle both jobs until August 1997 when he was appointed Scientific Glassblower in the department on a permanent basis.



Ken Owens during the 2001 Distinguished Alumni Lecture

Dawn L. Shiang, (BA 1983, Ph.D. 1987), will be presented with an *Outstanding Alumnae Award* at the Founders' Day Dinner on September 13, this fall. Dawn completed her Ph.D. degree under the direction of Curators' Professor of Chemistry Robert W. Murray in physical organic chemistry in 1988, and went on to the Pennsylvania State University to do postdoctoral research. In 1990 Dawn and Dawn Shiang went to work for the Dow Chemical Company in Midland in Michigan. Dawn's career at Dow has been nothing less than spectacular. She began her career at Dow doing process research in the laboratory in various areas and in a matter of ten years went from an entry-level Ph.D. bench chemist to, using old terminology, a Laboratory Director role. This is about twice as rapid as regular promotion rates at Dow. She tells me she is on what Dow calls the "Future Leaders" list. As such, upper management keeps close under close scrutiny and it can lead to accelerated placement to the higher leadership positions of the company.

She also tells me that her success has been somewhat due to being in the right place at the right time, although I think she is being modest. She was given the opportunity to reorganize Production Support in the agricultural products arm of the company to a more global structure. The success of that project and the team that she assembled, along with the work processes they designed, drew attention to her. She was recruited for the Corporate Research and Development position in order to bring her to the "mainstream" of Dow. Apparently the agricultural arm of Dow has always been on the periphery of the company. After only 18 months in Corporate Research she was recruited to Fabricated Products, one of Dow's businesses, where she could learn about directing research in alignment with commercial/business needs. Her colleagues who supported my nomination of Dawn for this award, all mentioned her remarkable leadership skills and "people skills", and they all reflect on what a fine person she is in that her first commitment is to her family. One

also comments on her activities in compassionate causes. Another letter points to her character, passion, honesty and integrity in her role as a leader at Dow. Another predicts that some day she will be a Corporate Leader at Dow. I add that since taking over Union Carbide, Dow Chemical is truly a giant in the industrial world. We congratulate Dawn on this achievement which brings honor to herself, her family, her employer, the chemistry department here and the institution as a whole.

Contributions 2000-01

Below we list all the individuals, chemistry alumni and friends of the department who made contributions to the university last year, excluding department faculty members. The list is very impressive and we are most grateful for your support. We have done our best to assure that the listing is up-to-date. If we missed out your name, we apologize and hope you understand that we are fallible. Recent gifts will be listed next year. We have not included matching funds because that list is harder to assemble.

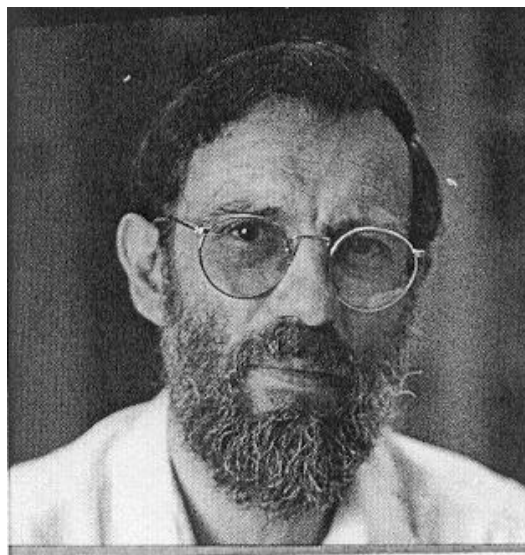
CONTRIBUTIONS FROM ALUMNI AND FRIENDS

Anonymous NON-ALUMNUS	Dr. Joyce Y. Corey
Dr. Alicia M. Beatty	Dr. Mary Hays Warmbrodt
Dr. Barbara W. Brown	Dr. Michael W. Young
Dr. David L. Garin	Dr. Minren Lin
Dr. Dennis P. Parazak	Dr. Steve A. Mestemacher
Dr. Dennis R. Patterson	Dr. Suzanne E. Saum
Dr. Donald G. Hesse	Dr. Wendell L. Smith
Dr. E. Terrence Jones and Dr. Lois Pierce	Mr. Charles R. Thierhemier Jr. and Ms. Cindy Dahl
Dr. Edward H. Brunngraber	Dr. William J. Welsh
Dr. Frank E. Stary	Dr. and Mrs. David A. Armbruster
Dr. Harold H. Harris	Dr. and Mrs. Gregory A. Hileman
Dr. Hongping Ye	Dr. Joyce Y. Corey
Dr. James S. Chickos	Dr. Mary Hays Warmbrodt
Dr. and Mrs. Harry W. Orf	Dr. and Mrs. Wesley R. Harris
Dr. and Mrs. John J. Chaber	Ms. Rhea S. Baxter
Dr. and Mrs. Karl W. Seper	Mr. Girard R. Riehl
Dr. and Mrs. Ko-Chung Lin	Mr. Jack D. Hammer
Dr. and Mrs. Lawrence Barton	Mr. James J. Grib
Dr. and Mrs. Robert W. Murray	Mr. James R. Wheatley Jr.
Dr. and Mrs. Sanford A. Asher	Mr. John A. Phipps
Dr. and Mrs. Timothy Wenzel	Mr. John R. Kolb
Drs. Alfred O. and Dorothy C. Greco	Mr. Joseph G. Groaning
Drs. William R. and Dawn L. Shiang	Mr. Kevin R. Criscione
FKS, Inc.	Ms. Dorothea M. Bean
Mallinckrodt, Inc.	Ms. Elizabeth Viviano Galie
Mr. Bruce E. and Dr. Vicki M. Ritts	Ms. Joan Twillman
Mr. Michael C. Merriman	Ms. Judy A. Highfill
Mr. Michael G. Provance	Ms. Lisa M. Hoguet
Mr. Raymond and Dr. Virginia Hauserman	Mr. Daniel P. Stueck and Ms Deborah Tannenbaum
Mr. Richard E. Hauhart	Ms. Sharon J. Moran

Mr. Richard J. Morfing	Ms. Suzanne Metz
Mr. Scott A. Long	Ms. Yihua Liao
Mr. Stephen J. Szymczak	Mr. and Mrs. Dan C. Tucker
Dr. Thomas J. Curphey	Mr. and Mrs. Eric H. Brunngraber
Mr., Michael and Dr. Janet Place	Mr. and Mrs. Gregory R. Webb
Mr. and Mrs. Albert Cohen	Mr. and Mrs. Heath W. McCann
Mr. and Mrs. Anthony D. Daus III	Mr. and Mrs. Jack M. Dougherty
Mr. and Mrs. Brian M. Gross	Mr. and Mrs. John Blase
Mr. and Mrs. Christopher S. Mallory	Mr. and Mrs. John K. Pratt
Mr. Craig and Ms. Mary Mierkowski	Mr. and Mrs. John W. Koenig
Mr. and Mrs. Lance G. Hellwig	Mr. and Mrs. Ronald Bonnell
Mr. and Mrs. Larry A. Justice	Mr. and Mrs. Steven J. Mertens
Mr. and Mrs. Lee L. Gori	Mr. and Mrs. Tony L. Frost
Mr. and Mrs. Mark A. Leiber	Ms. Irene Drizin
Mr. and Mrs. Michael A. Hauser	Ms. Linda R. Chickos
Mr. M. C. and Ms. Susan Auinbauh	Mrs. Lois Brunngraber
Richard C. and Ms. Sandy Wisneski	Ms. Lori A. Polette
Mr. Richard and Ms. Jeanette Glaenger	Ms. Arlene F. Vogelsang
Mr. and Mrs. Robert T. Roither	Mr. Rocky and Ms. Cathy Carr

Keeping us informed

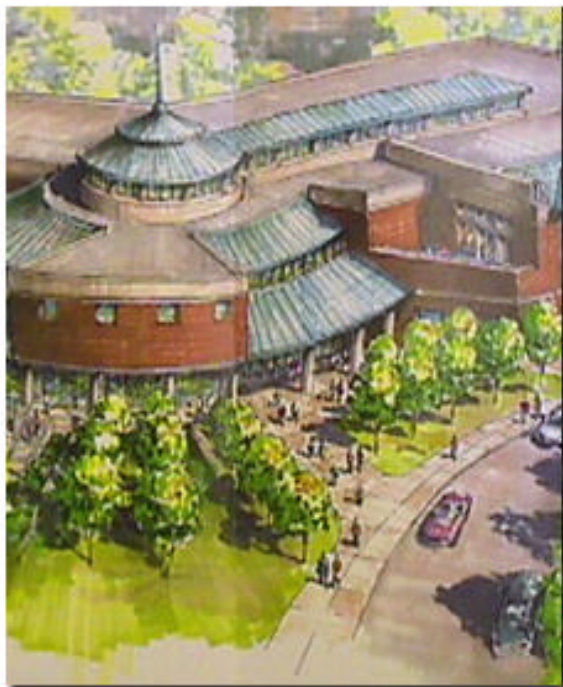
I have been asked how I am able to obtain so much information on alumni, more than one finds in the typical departmental alumni newsletter. Indeed, I was invited to attend the 1999 retreat of the Alumni Association in mid-August, to participate in a panel discussion on that topic. The answer is not an easy one to give. Since I was here when the first class graduated, I know just about all the graduates of the department and have made it my business to keep in touch with as many as possible. There are several



Professor Rudolph E. K. Winter who retires this year after 32 years.

reasons for doing this. It is clearly very satisfying to see one's former students do well. If there are such things as products of our work, then it is the graduates of the program, which are the most significant. Other measures of productivity include research publications and grants but these would not be possible without the students who do most, if not all, the experimental work. Of

course it is important if one is writing a newsletter such as this to maintain contacts. Furthermore, I regard most of the former students I met here as personal friends and that is an additional impetus for maintaining contact. Thus whenever I hear anything



the item. Sometime, but quite rarely, colleagues give me information but most of it comes from journals, the newspaper, hearsay and efforts on my part to obtain information. I am a little frustrated that we don't hear from more of you. There are many reasons why it is important to us, in addition to the points I make above. Success of graduates is a good argument to the administration to support us. Success of graduates working in corporations, either in this area or elsewhere provides an important lever when we are seeking support from industry. As in most universities, the fraction of our financial support that derives from the state has been steadily dropping, and thus we need more external support from corporations, friends, alumni etc. For years we have been cognizant of the fact that as a young university, we don't have so many alumni who are in a position to make substantial gifts to the university. Since now some of our graduates are retiring, that situation must be changing and we hope you can find it possible to make a contribution to the department. Unfortunately, we have very little financial aid available for students here and one goal is to increase the support given to students, especially undergraduates in the form of scholarships. Remember anything you do to help improve the institution, helps you because it increases the value of your degree. The better the reputation of an institution, the more highly regarded are its degrees. Finally, please let us know your views on whether we should work to establish a Chemistry Chapter of the UM-Alumni Association. You may be interested in seeing the Alumni Wall of fame in the new Millennium Center, pictured above in an artist's rendition.

about any of you, I make a mental, or sometimes written, note of

UM-St. Louis Chemistry Alumni Fund

Enclosed is my contribution of \$ _____ Yes I work for a matching gift Corporation.

Designation for funds:

Robert W. Murray Lectureship _____

E.G. Brunngraber Fellowship (undergraduate research) _____

Lawrence Barton Scholarship _____

M. Thomas Jones Memorial Fund (graduate research) _____

Undergraduate _____

Graduate _____

Barbara Brown Fellowship for Women in Chemistry _____

Unrestricted _____

Please make check payable to UMSL. "Chemistry Alumni Fund" and return to:

Professor Lawrence Barton
 Department of Chemistry
 University of Missouri-St. Louis
 St. Louis, MO 63121

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INFORMATION UPDATE 2001

Please respond to this questionnaire. We have mentioned previously how important it is for us to keep track of what you are doing, both professionally and personally.

Name _____ UMSL Degree _____ Year _____

Current mailing address: _____

Employer: _____

Current Position: _____

Recent Activities:

Other News:

News of other alumni:

