

UMSL CHEMIST



Volume 21

Department of Chemistry
Fall 2003

Chairman's Message (Gordon K. Anderson)

It is hard to believe that 2003 is almost over! As usual, we have seen a number of changes in the department. Of course, we have a new chancellor, Thomas F. George. You will read more about Dr. George elsewhere, but I want to say that we are delighted to welcome him not only to the campus, but also as Professor of Chemistry (and Physics). Dr. George is a prolific researcher in the area of theoretical chemistry and physics, who has collaborators literally around the world.



Chancellor Thomas F. George presenting a seminar to the departments of Chemistry and Physics in September

While we have welcomed Dr. George, we were sorry to lose Dr. Don Becker. Don was invited to be part of a new Center for Redox Biochemistry at the University of Nebraska. This was an outstanding professional opportunity for Don, and it allowed the Becker family to move back closer to Don's and Julie's parents. Don is greatly missed already! With Don's departure, our number of regular faculty has reached a low point, at least during my time at UMSL. Thankfully, we are currently conducting searches for two new faculty members in biochemistry to start in fall 2004. These positions, as well as new positions in the Department of Biology, demonstrate the commitment of the campus to expanding our capabilities in the life sciences.

The two departments, Chemistry & Biochemistry, and Biology, have worked together to develop proposals for new degree programs in Biochemistry and Biotechnology. The B.S. and M.S. degree programs have been approved by the Board of Curators of

the University of Missouri, and they are now awaiting approval by the Missouri Coordinating Board of Higher Education. We believe these degree programs will provide much-needed educational opportunities for individuals who will work, or are working already, in the rapidly expanding "biotech" industry. Our joint Chemistry/Biology storeroom is functioning well. Under Donna Kramer's expert supervision, the transition took place very smoothly. The traditional array of chemicals and glassware is now supplemented by vast numbers of pipette tips and disposable gloves!

All the science departments underwent a "Five-Year Review" during 2003 (actually our previous one was in 1999, but who's counting). The external reviewer and campus review teams had many positive things to say about the faculty, staff and students of our department. We appreciate the efforts of our graduates who wrote letters in this context. The satisfaction of our graduates with the education they received is one clear indication of the quality of the degree programs we offer. The reviewers were also greatly impressed by the giving of our alumni. Chemistry alums, although they make up only a tiny fraction of the graduates of this campus, contribute much more than alums of any other department in the College of Arts and Sciences. Your donations are greatly appreciated, and we always seek to use them wisely. As I anticipated last year, we now have an excellent computer/projector system in our seminar room, which was made possible by the donations of our alumni. We also use these funds to provide scholarships to deserving students. Many of you can remember how a scholarship of even \$500 did make, or would have made, a difference when you were going through college. I encourage you to continue to support the department in whatever way you can.

As I write this, final exams are approaching (and I haven't written mine yet!), then the semester break. May I take this opportunity to wish you a very happy holiday season and every success in 2004.

A handwritten signature in cursive that reads "Gordon Anderson".

Editor's Message (Lawrence Barton)

This has been a momentous year for UM-St. Louis and for the faculty and we are now beginning to see changes in the way we

have done things here for so long. The recruitment of Tom George as our new chancellor has brought a major feeling of optimism among the faculty and our students - something which has been lacking in recent years. George started in September following an eight-month period when Donald Driemeier served as Interim Chancellor after the retirement of Blanche M. Touhill last December. I was a member of the search committee that brought new Chancellor Tom George to the campus. The committee was quite large and included faculty members, administrators, staff members, students and some community representatives. One of the most gratifying aspects of the search was the support for the institution exhibited by the committee members representing the community.

The campus has a new look and further changes are expected in the near future. This year marks the 40th in our history and the occasion was celebrated earlier this fall. There were two principal events, both held in the new Blanche M. Touhill Performing Arts Center: the Founders' Day Dinner and the facility's Opening Banquet, both of which I attended. Faculty colleagues Hal Harris and Dave Garin and also our own founder Charlie Armbruster attended the former. Charlie had been in town to visit Steve Mestemacher's brother's 60th birthday party. It was great to see him and also many other UMSL pioneers. A real highlight of the event was that another chemistry graduate was honored with one of the Distinguished Alumni Awards: **Kim Gorman**, BA 1993, and President of *Paternity Testing Corporation*. Kim is mentioned elsewhere in this newsletter but a point of pride for the department is that we have now had three such awardees in succession. I am a member of the Alumni Association Board and know how competitive these awards are. Two years ago it was **Dawn Shiang**, BA 1983, Ph.D. 1987, and last year **Doug Nuelle** BS 1969. In all six chemistry alums have been so honored (**Ray Novak**, BS 1968 in 1988; **Harold Messler** BS 1970, in 1991 and **Harry Orf** BS 1971 in 1994). By the way, there is a "Wall of Fame" listing all awardees in the Millennium Student Union. Some chemistry alumni attended the Opening Banquet and it was great to see **Mike and Linda Finkes** dancing to the music of Maynard Ferguson at the event.

This new facility, the Blanche M. Touhill Performing Arts Center was opened in September 2003. It has two theaters and both are really spectacular. They are the 1,625-seat Anheuser-Busch Performance Hall and the 300-seat E. Desmond and Mary Ann Lee Theater. The facility has already hosted presentations of the theater, musicals, opera, classical music soloists and ensembles, dance, and popular entertainers, as well as University events. They have been well attended and the planned events portend well for the future. (The remodeling of the undergraduate laboratories, which was delayed as funds were raised for the latter, is still the top capital improvement priority for the campus and we are hopeful that a bond issue may allow work to proceed.)

This is the 21st year of the UMSL CHEMIST, which was initiated by Ken Barnett in 1977, revived by John Schriefels in 1985 and taken over by me in 1987. I just put together the whole collection for the UM-St. Louis University Archives. The original issues make very interesting reading as do all of them. I have been trying to develop a new format for this issue but that will probably have to await the assumption of the editorship by a colleague. If you have any suggestions about content, format or any other aspect of alumni affairs, please let me know. In the

meantime, I have again been able to garner lots of information about alumni. I recently, however, received a copy of the latest *UMSL Magazine* and was disappointed not to see more information in there about chemistry alumni. My disappointment stems from the fact that I am not asked to provide any information to that publication's editorial staff. I will try to rectify that in the future. Some of you have questioned the way I list your year of graduation. Each year the department sends in a report on the year's graduates to the ACS Committee on Professional Training. They count the year June through June, thus if you graduate in August 1999, you are counted as graduating in 1999-2000. I hope that clears that up! I hope you will continue to provide us with updates of your careers and personal lives. Your colleagues certainly have expressed much interest in learning about you and other student colleagues.

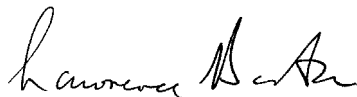
It is always so gratifying to hear of chemistry alums doing well in their professional careers or in their communities. For example, reading the vignette on Actinium written by **Greg Wall** (BA 1974, MS 1981) in the recent issue of *Chemistry and Engineering News* on the periodic table was very nice. Similarly, hearing from former Bob Murray postdoc, **Megh Singh** that the new Associate Director, St. Louis Discovery Medicinal Chemistry at Pfizer in St. Louis is **Mike Ennis** (BS 1978), was very pleasant to hear. So please let us know of your successes or of those of your student colleagues as you learn about them. It is especially important for us to know when alumni are in important positions in their organization. Such achievements are occurring more and more regularly, and the news is extremely gratifying to those of us on the faculty.

Chemical and Engineering News has recently reestablished the listing of graduates in chemistry at institutions across the US and it is noteworthy that UMSL now graduates more students with degrees in chemistry than do any of the other three University of Missouri campuses. This December will see our 200th masters degree graduate. We have also graduated more than 800 baccalaureates and 110 doctoral graduates. Chemistry department alumni are now represented in essentially all the major companies that employ chemists as well as in government laboratories and other colleges and universities in Saint Louis. Furthermore, many of you are now in important and influential positions within your organization. Thus it might be appropriate to encourage you to see how your organization can help the department. Such help would come by finding positions for graduates, opportunities for students to do internships, etc., and possible research collaboration or funding. One means by which we can mutually interact to the benefit of both institutions is for your institution to make use of our excellent facilities in NMR spectroscopy, mass spectrometry and X-ray diffraction.

Of course we appreciate your contributions. We have heard from the administration that alumni at UM-St. Louis do not contribute anywhere near as much as the national average for typical universities. The numbers are that at UM- St. Louis, 4.6% of alumni make contributions whereas the national average for public research universities is about 16%. Among chemistry alumni, more than 10 % contribute to the University and we are truly appreciative of your support.

This might be an appropriate time to visit the campus again. It has changed substantially in the past couple of years. The

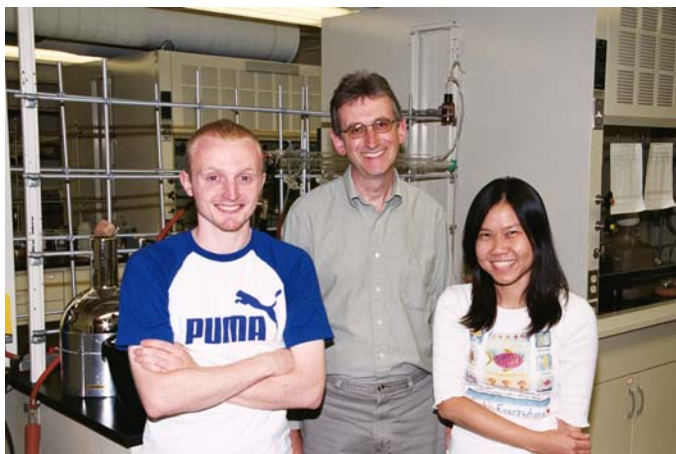
department itself continues to change and we would be delighted to show you around. Please keep in touch and provide us with information about your career and achievements in your personal lives. This year, like many others in my tenure here, we are facing a severe budget problem and your help would certainly be appreciated.



Alumni Information

1967

Lloyd Hill BS Chemistry 1967, a member of our first graduating class, and who holds a Ph.D. degree from Iowa State University, returned to Mallinckrodt (Tyco-Healthcare) in 2000 where he is Director of R & D in the Pharmaceuticals Division. He had been in Florence, South Carolina, as a Research Leader with the Hoffman-La Roche Company. Prior to that he spent 23 years with Mallinckrodt. He was a guest of the department at the Chancellor's Report to the Community in May.



Dr. Anderson with graduate students Colin White and Nickie Praingam in their laboratory

1969

Steven Mestamecher BA sent us a nice message recently. He appreciates receiving the annual copy of the UMSL CHEMIST and hearing about the Chemistry Department, and the people that were part of his life many years ago. He mentioned Ray Novak, John Kolb, Harold Messler, Doug Nuelle and Joe Bono, all from his era. He has been with DuPont for 30 years and is a Technology Guardian. Almost his entire career has been involved in some aspect of polymer research and/or product development. Three years ago he got out of Management and is enjoying running his own programs. This past year he wrote a Survey on Nylon Polymers for the Ullmann's Encyclopedia of Industrial Chemistry, and also submitted four patent applications for a new product line he is developing, called Pipelon@ Resins. As an undergraduate, Steve did research with Dennis Diestler and when Diestler left he continued the same project with Dr. Larsen and it was later published as "Spectrophotometric study of the iodine-iodide system in methylene chloride", in the *Journal of Inorganic and Nuclear Chemistry* in 1971 He went to Washington

University following graduation and did a Ph.D. degree with Professor Joe Kurz prior to joining Dupont in 1973.

James Reilly BS who had been at Wentworth Military Academy Junior College for thirty years was in the in the process of moving in with his fiancée, to Kansas City and was planning to marry on September 17. Interestingly, Jim also went to Washington University to do graduate work and completed a MS degree also under the direction of Professor Joe Kurz.

Joe Bono BS was in town very briefly this summer but was not able to get to come to the department. He joined the Drug Enforcement Agency in 1988 and has had several jobs there. Currently he is responsible for all technical issues in the nine DEA laboratories. He is on the Board of Directors of the American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLD/LAB) and the Board of Directors of the American Academy of Forensic Sciences. He has done much traveling recently associated with his job including trips to Beijing, Hong Kong, Berlin, Istanbul, Muscat (Oman), Islamabad (Pakistan), Taipei (Taiwan) among others. He tells us that his degree from the UMSL has worked wonders for him.

1970

John Kolb, BS was impressed with the UMSL CHEMIST last year and indicated that it is considerably more informative than the one he receives from Northwestern University where he received his Ph.D. degree. He was pleased to hear about former colleagues, instructors and students. He is retired from the Department of Energy Laboratory at Lawrence/Livermore. He and his wife Judy continue to enjoy their grandchildren greatly; the youngest one was just two and the oldest was soon to be 12. He volunteered to teach science to grade school children in Tuolumne County. It is a very sparsely populated rural county and the schools need all the help they can get. At home he has most of the five acres they have cleared, at least up until the point where the rock cliffs reach an angle that he can't easily amble down. His property has few conifers and is predominantly oak. He takes a rifle with him when he goes higher on the property. There are mountain lions that lounge on the larger rocks in warm weather and bears and coyotes that appear periodically.

Harold Messler BS and wife Carole were at the Founders' Day dinner at the Touhill Performing Arts Center on September 25. I attended the St. Louis Mayor's prayer breakfast with him earlier in the year when we were able catch up on old times. Harold occasionally works at the St. Louis Science Center when he and a colleague explain forensic DNA.

1971

Sanford A. Asher, BA, who is professor of chemistry at the University of Pittsburgh and adjunct professor of chemistry at Carnegie Mellon University, received the ACS Pittsburgh Award of the Pittsburgh Section. The award recognizes outstanding leadership in chemical affairs in the local and larger professional community. The award, which consists of a plaque and honorarium, is presented annually. Asher's research program at Pitt has involved the development of new materials and new spectroscopic techniques. His group developed UV resonance

Raman spectroscopy as a new technique for fundamental and applied structural and trace studies of molecules in complex matrices. His group is using UV resonance Raman to examine the first stages in protein folding. In addition, Asher's research group pioneered the development of photonic crystal materials. Asher received a Ph.D. in chemistry at the University of California, Berkeley, in 1977. He served as research fellow in applied physics at Harvard between 1977 and 1980. A feature on MSNBC described work done in Sandy's lab on the measurement of glucose levels by contact lens. Sandy and his students are trying to create a chemical sensor at the edge of the lens that can be worn by everyone, even those who don't need vision correction, and will be useful for the detection of diabetes. Sandy and his research group have developed the sensor material for the lens, secured the patent on the technology and have investors lined up for a startup company. Some of the developmental work is described in *Anal. Chem.* **2003**, 75, 2316-2323 and *J. Am. Chem. Soc.* **2003**, 125, 3322-3329



Dr. Chickos with a group of students in the instrument room of the organic chemistry laboratory

Suzanne Metz BA (MS 1978) has been with Monsanto/Pharmacia/Pfizer, since graduation. **Mike Finkes** (BS 1973, MS 1977) tells us that her child just graduated from Medical School.

Dr. Dennis W. Wester B.S. who is employed at the Pacific Northwest Laboratory in Richland WA, is participating in the International Material Protection, Control and Accounting (MPC&A) program of the U.S. Department of Energy as Technical Lead for Regulatory Development and Gosatomnadzor Inspection Oversight System projects. The MPC&A program works in the Russian Federation, the former Soviet Union, and other countries of concern, to secure nuclear weapons, weapons-usable nuclear materials, and radiological sources by upgrading security at nuclear sites, consolidating these materials to sites where installation of enhanced security systems have already been completed, and improving nuclear smuggling detection capabilities at border crossings. His work in nuclear medicine revolves around production of the $^{212}\text{Pb}/^{212}\text{Bi}$ generator and new methods for medical radioisotope production. Dennis was in the department with wife Vickie and son Adam in December.

1973

Michael Finkes, BS (MS, 1978) and his wife Linda (BA. Political Science, 1970) attended the opening Gala for the Blanche M. Touhill Performing Arts Center in October. We saw them proudly examining their commemorative brick on the patio by the main entrance.



At the Robert W. Murray Lecture Banquet, left to right, are sitting Hal and Mary Harris, Jane Miller and Joyce Corey. Standing are Don Becker, Cindy Dupureur, and Bruce and Janet Wilking.

1974

A. Greg Wall, BA (MS 1982) wrote one of the vignettes in the September 8 issue of *Chemistry and Engineering News*, It's Elemental: the periodic table, celebrating the magazine's 80th Anniversary. Greg wrote the page on Actinium and was among some really prominent authors including Nobel Laureates, etc. The acknowledgment indicates, "Greg is a technical service scientist for Sigma Aldrich. He is actively interested in promoting chemical literacy through public outreach programs, the newspaper, and radio and has been cited in the Wall Street Journal, Genetic Engineering News, and on BBC's "Nature Magic 1975". At the Annual Continuity Dinner of the St. Louis Section of the ACS in December 2003, Dr. Wall was named recipient of the 2003 *Distinguished Service Award*. This is a well-deserved honor.

1975

Richard Hoyt BS is Vice President for Business Development at Mallinkrodt-Tyco Healthcare in St. Louis. Rick and his wife Joan attended the last two *Robert W. Murray* Lecture Banquets, and every now and then we share a beer at *Whalens* in the UM-St. Louis neighborhood.

1976

David Beach, Ph.D, our first doctoral graduate retired from Chevron Chemical Company in 1999, and is living in Kingwood Texas. He went to work for Gulf Research & Development Company, in Pittsburgh in 1976 as a Reserch Chemist. He held such positions as Senior Research Chemist, Director of Polyolefin

Catalysis, Technician Management Contact and Research Associate, Skill Group Leader (Organic Chemistry) until the merger with Chevron Chemical Company in 1985. At Chevron in the Houston area, he served as Supervisor of Catalyst Development, Quality Team Leader, and later Manager of Polymer Catalyst Research and Development. His last position with Chevron was Senior Staff Scientist. Dave presented about 15 papers at conferences in the US and abroad and was author of about 56 articles technical journals, and inventor of about 60 U.S. Patents and 75 Foreign Patents. The editor last saw him at the ACS Meeting in Boston in 1990, where he was a session chairman in the Catalysis Secretariat International Symposium *New Science in Homogeneous Transition Metal Catalyzed Reactions*.

William Z. McCarthy BA 1976, (Ph.D. 1983) has been at Mallinckrodt Inc., now TycoHealthcare/ Mallinckrodt, since graduation. Bill has been remodeling his house in the Lafayette Square neighborhood since the late 1970s.

1977

Phil Asaro BS is an Assistant Professor at the Washington University School of Medicine. He is currently working with the emergency department information system to implement computerized physician order entry to improve safety. He is also involved in development of a process measurement system to monitor and improve patient care processes aimed at improving patient throughput and reducing overcrowding and decreasing time spent on ambulance diversion.



Donna Lemp who has been in the department office since 2000.

1978

Michael D. Ennis BS came to St. Louis this summer from Kalamazoo after the purchase of *Pharmacia* by *Pfizer*. He had been with *Pharmacia* in Kalamazoo. His title is Associate Director, St. Louis Discovery Medicinal Chemistry at the Creve Coeur site. Mike holds a Ph.D. degree from Caltech and he did undergraduate research when he was here with Eric Block.

Mike was our 1999 Distinguished Alumni Lecturer.

Pete Kleine BS (MS 1982) has been with *Monsanto*, *Pharmacia*, *Pfizer* since graduation. Pete attended the Alumni Lecture given by Mike Ennis in 1999, and he and colleague Mark Pozzo (BS 1978, MS 1982 and a colleague at *Pfizer*) noted that after so many years, Mike, then at *Pharmacia*, and they worked for the same company. *Pharmacia* had just purchased *Monsanto*.

James Foley BA is Vice President, Environmental Solutions, in St. Louis. We hear from him from time to time. He deals with a

range of environmental issues and we have discussed them on occasion.

William Van Arsdale BS 1978 (Ph.D. 1984) was in the department with his wife Laurie in July where they chatted with Rudi Winter and me. They are both with Rohm and Hass in Houston. Bill is a Process Chemist and is the guru for all the Rohm and Hass locations on acrylate monomers. He tells us that when he was a student, that last thing he wanted to see was a polymer in his reaction mixture but now he is a polymer chemist. His work is in the area of polymerization inhibitors and he is responsible protection of, for example, rail cars containing monomers.

1979

Bruce Ritts BS (MS 1983) is busy with his work for the STERIS Corporation. STERIS hired a new Director to head up Product Development in St. Louis and that resulted in a company reorganization. Bruce now reports to **Herb Kaiser** (Ph.D. 1995). Bruce does a splendid job as Treasurer of the St. Louis Section of the ACS.

1980

Donna Friedman Ph.D. received the 2002 ACS Local Section's *Distinguished Service Award* for 2002. Donna has been active in the Section for many years serving as Treasurer, Director, Councilor and Chair, since the early 1980s. She is also active at the national level and currently serves on the Membership Affairs Committee of the Society. She is again Chairman of the Chemistry Department at Florissant Valley Community College

1981

Joan Twillman BA is employed by the St. Charles School District as a Science Teacher and Science Club Sponsor. She sent us a message expressing real pleasure in the *Barbara Brown Fellowship for Women in Chemistry* and described her time as a young mother in school when it took her nine years to graduate, due to financial and family pressures. She is very pleased that the award is for women over 24 and she hopes it goes to a parent and that the people who need the money can find out that it is available.

1982

Steven S. Lawrence BA (Ph.D 1989) remains as Chairman of the Chemistry Department at Saginaw Valley State University in central Michigan. As part of the 40th Anniversary at SVSU, Steve was one of six faculty members to be honored for "demonstrating exceptional ability in the classroom and in their field by receiving both the *Landee Teaching Excellence Award* and the *Earl L. Warrick Award for Excellence in Research* during their career". Steve has been at SVSU since 1992 and received the Landee Award in 1995 and the Warrick Award in 1999. Of the six honorees, Steve had by far the shortest term of service at SVSU. Prior to going there he was at Rockhurst College in Kansas City.

Gregory Noelken BS has been in the Chemistry Department at Washington U. since Petrolite ceased operation in St. Louis.

Among other things he is in charge of the department's web site and is the computer guru in the department.

Dennis Parazak BS (MS 1986, Ph.D 1996) is working at *Hewlett Packard* in Rancho Bernardo in the San Diego area in California. He recently gave us an update. He and his family survived the recent wild fires. None of the fires actually threatened his home but one of them did come somewhat near to the HP facility. A neighboring community lost over 300 homes. Wife Lynn and son Eric are doing fine and they all really like it there. Professionally, everything is going well. He is still working in the office/commercial printer division and in the near future he will be interfacing more with the large format people in Barcelona. He has managed to have four patents issued in the last 12 months and he tells us that is as close as it gets to publishing his work.

Jerry K. Ronecker BS presented the *2003 Distinguished Alumni Lecture* in May. The lecture "Legal Reactions to Chemistry" convinced many of us that it is not worth suing a chemical company when they are able to hire such competent lawyers as Jerry. He received the American Institute of Chemists Award as the top student in his class in 1982. After graduation he worked at Monsanto spending five years in environmental research in the agricultural company. He then went to Law School at Saint Louis University, graduating in 1990. He is now an attorney practicing in "Environmental Toxic Tort Law and Product Liability". He is a partner in the Saint Louis law firm, Husch, Ampersand, and Eppenberger. He has been with the firm since September 1990.

Karl Seper BS was last heard from after he and his family had moved to Michigan.

1983

Dee (Lange) Bianca BS (Ph.D 1991) was living in Oceanside CA with her husband Frank and dog Scamp. December doctoral graduate **Liz Hansen** and her husband Brad spent time with them in late July. Dee and Frank have built a house in Las Vegas and moved there this past fall. Liz also spent Thanksgiving with the Dee and Frank recently.

William R. Shiang BA (Ph.D 1988) presented a seminar: "Cost Effective Production of Agrochemicals: How to Satisfy the Needs of Farmers, Industry, and the Environment" in the department in February. Dr. Shiang is a Global Supply Chain Leader at the Dow Chemical Company in Midland, MI.

Suzanne Mates-Pea BS reminds us that 2004 is her 20-year anniversary of graduating from UMSL. She is a manager at Deloitte & Touche in their Solutions Consulting practice. She specializes in finance process improvement, and budgeting and planning process design and software implementation. Lately, she has been busy helping clients prepare for their Sarbanes-Oxley 404 compliance. She tells us she is happily married and they have 2 adorable Shih-Tzu puppies. One of these days she intends to stop by and see the campus renovations.

Angelo Vangel BS is employed by LHB Industries as Quality Control Supervisor. He kindly contributed leftover funds from the St. Louis Blues Post-Season tickets last year. They REALLY stink, he tells us.

Mark Vilmer BS continues as the Laboratory Director, for the City of St. Louis Department of Health. When we last heard from him he was looking forward to meeting the new Department Director, Dr. Stallworth.

1985

Jeanette Hencken, BA won the American Chemical Society St. Louis Section *High School Teacher of the Year Award* for 2003. Jeanette does marvelous things with kids and forensic science at Webster Groves. We heard this from **Joan Twillman**, (BA 1981). A feature appeared in the *St. Louis Post-Dispatch* on 03/18/2003, which is featured later on.

Janet (Braddock) Wilking BA who is Research Associate Professor of Chemistry in the department, received a grant from the National Science Foundation for the study of silane complexes of transition metals. See also under **The Faculty**.

1986

Shari Keith BA is Technology Manager at IJ Technologies, Inc. in St. Louis. She recently was in touch with us to donate some chemicals, etc.



Dee (Lange) Bianca (Ph.D. 1991) with Liz Hansen (Ph.D 2004) in Oceanside California where Dee lived until very recently.

1988

Greg R. Bradburn MS works for *Cisco Systems, Inc* in San Jose CA. His career has been a typical Silicon Valley one. From 1996 – 99 he was with *Alcedo* working on developing an electron beam PC board tester. In 1999 he went to *Honeywell-Measurex* and worked on a paper stiffness sensor, from 99 – 200 he was with *Tyco Electronics* doing fiber optic test development and now with *Cisco* he continues work in fiber optic communications development. He has been at Cisco now for over three years as a Test Development Engineer. It is not exactly the career he had planned but the optics and instrumentation control software experience he gained in his education and early career made this a reasonably good fit and a few years ago there was a great shortage of people with fiber optics experience in this area. In the mean time, as a part of the Central Test group he gets to qualify new optical components for use in Cisco products as well as

develop the test strategies and test equipment for new products. He gets to travel a few times a year to install test stations and train operators in their use and also to attend conferences.

William L. Neumann Ph.D. who had been with *Monsanto/Pharmacia/Pfizer*, has moved to *Metaphore Pharmaceuticals* in St. Louis where he joins **Jim Wheatley** (BS 1989). Bill is pleased to be back working with some of his former Monsanto Central Research Department colleagues again.

Gary Wester BA (MS 1992) continues to work with *Pfizer* in Kansas City as the Chemistry Team Leader. The facility is closing in December 2005. Unless he finds something in the Kansas City area, he will more than likely transfer with *Pfizer*. Last December, he took and passed the requirements for Quality Auditor Certification from the *American Society of Quality*. He co-authored a paper that was published in the *Wildlife Society Bulletin* on "Spent-shot availability and ingestion on areas managed for Mourning Doves." In his spare time, he is working on an improved method to sample soils for surface spent shot. His wife Jan is working at the Challenger Center for Space Science Education. The Challenger Center opened a learning center in St Louis near UMSL in the Ferguson-Berkeley school system. Daughter Melanie is practicing veterinary medicine at the Bogey Hills Animal Clinic in St. Charles and son David is working for a cable provider in Boulder, Colorado.

1989

Alicia Beatty, BS who had been on the faculty at Notre Dame University as Research Associate Professor of Chemistry and departmental X-ray Crystallographer is now Assistant Professor of Inorganic Chemistry at Mississippi State University. She is very pleased that her quest for a regular tenure-track faculty position is finally over, and so are we! Apparently they have an under-utilized diffractometer, and there was already a lab for her more or less in place, so she says she will be ready to go as soon as she can get some students. Alicia had a successful time, especially from the editor's perspective, publishing papers in metallaborane chemistry with Professor Tom Fehlner

Greg Duncan BS continues with the company formerly known as *Warner-Jenkinson* and now *Sensient-Colors Inc.*

1992

Kim Gorman BA who is *President of Paternity Testing Corporation*, located in Columbia MO, was honored with a Distinguished Alumni Award in 2003. She was nominated by the editor with substantial encouragement from Mary Gillespie, former UM Curator and her former boss, **Harold Messler** BS 1970, Director of the St. Louis Crime Laboratory. As we mention elsewhere, she received the award at the Founders' Day Dinner in September. Her company is slowly growing, and they have expanded into forensic and disease testing. She misses working in the lab and spends virtually all of her time at a desk. Recently, she traveled around Missouri and Louisiana giving seminars on genetic identity testing to a variety of District Attorneys Offices and Child Support Offices. *Paternity Testing Corporation* hosted the first Missouri - Kansas Forensic Conference in March and every crime lab in Missouri and Kansas attended. She is planning

for her company to move to a new facility in the next year. PTC has been in the Cancer Research Center in Columbia since it was opened in 1996. The company had only 4 employees (including Kim and her husband Joe who is General Counsel) in 1998 and now they have 35.

Jean (Huhmann) Vincent (PhD 1997) has agreed to present the *2004 Distinguished Alumni Lecture* next May. Jean works in Electronics Technology for Air Products and Chemicals Co. in Allentown, PA. She gave a talk on organosilicon precursors in integrated circuits at the Organosilicon Conference last spring. She thought she was to move to a new assignment in October and become involved in developing new flame retardant polyurethane foams and additives. Husband John is still at home with his own consulting business and taking care of their son Derrick. He is now 18 months old, and she says he is just the best "darn little boy" in the word.

Anne (Cafferty) Tournbaugh Ph.D. is with *Novozymes* in the Houston area and she enjoys her job. She works in the Biologicals Division. She had a meeting in February at Roche in Basel, Switzerland and was hoping to see **Mike Groaning** (BA, 1997, MS 1998) there. She informed us that the family is doing well. Son Oren was 6 months and daughter Katie has quite the mix of the Irish and the Texas drawl!



The 2003 Distinguished Alumni Awardees, Otto Sankey, Physics, Susan Noaker, Psychology, **Kim Gorman, Chemistry BA 1992**, Clint Zweifel, Political Science and seated Janice Nunnelee, Nursing.

1994

Sean Dingman, BS informed us recently that he has accepted a position with *Aldrich Chemicals*, part of the *Sigma-Aldrich Corporation*, in Milwaukee Wisconsin. Since the effective closure of AP Materials last May he had been working as a lab

manager at Washington University on an interim basis. The position he has accepted is Product Manager of the Aldrich Organometallics line. Aldrich provides research grade and bulk chemicals to academics and industry. There is a strong push toward materials science products and he will be working to expand the Aldrich product line. Sean received a Ph.D degree from Washington University.

Christine Maupin BS is teaching Introductory Chemistry for one year at Tulane University. Christine obtained her Ph.D. degree with former faculty members Jim Riehl at Michigan Technological University.

Patricia Chernovitz Ph.D. is now the Chair of the Science Department at Park College in Kansas City. We saw Pat at the ACS Midwest Regional Meeting in Kansas City in November.

Bradley Rowe BS (Ph.D. 2003), who completed his doctoral degree with Professor Spilling last summer, is now with *Tyco-Healthcare (Mallinckrodt)* in the imaging area at the Hazelwood site, in St. Louis. He is a Senior Research Chemist in Imaging Research and Development.

Hong Fang Ph.D. who is with the National Center for Toxicological Research in Jefferson, AR., co-authored a paper "QSAR models in receptor-mediated effects: the nuclear receptor superfamily", in THEOCHEM with her husband former postdoc here Tong Weida, and Bill Welsh.



Dr. Barton with Yanina Levchinsky and Brian Grimmond outside his office at Thanksgiving 2003.

Michael Groaning BA, MS 1997 Chemistry, completed a postdoctoral Fellowship at the ETH in Zurich, Switzerland, and took a position as a Scientist at *Hoffmann-La Roche Ltd*, Pharmaceutical Division, Discovery Chemistry, in Basel, Switzerland. Mike holds a Ph.D. degree from Colorado State University and moved back to the US this summer. He was to start at the Roche Technical Center in Boulder, CO on July 14; leaving the comfortable confines of Europe on the 3rd of July.

1996

Elizabeth Amin BA (Ph.D. 2002) had been seeking a permanent position in Minneapolis and working as a consultant for her

former company *Tripos* with whom she had been an Application Scientist, after relocating from San Diego to Minneapolis where her husband had obtained a position. She informed us recently that she had accepted a Visiting Assistant Professor position in the Chemistry Department at the University of Minnesota. She will be working with Professors Cramer, Truhlar and other members of the University of Minnesota Computational Chemistry Group, on metal-binding proteins and anti-angiogenesis drugs. She also tells us that a paper on her serum transferrin project, with Wes Harris and Bill Welsh coming out this fall in *Biopolymers*.

1997

Yanina Levchinsky-Grimmond BS (MS 2000) was in the department over the Thanksgiving Holiday with her husband **Brian Grimmond** (Ph.D 2000). They bought a house in Clifton Park, NY in April and have had many visitors since then. Towards the end of summer Brian turned 30 and in honor of his birthday his friends from Scotland flew in and Yana tells us that was a week to remember! Yana gave a paper at the Northeastern Regional ACS Meeting in Saratoga Springs this past year based on her work at *Regeneron Pharmaceuticals* in Rensselaer NY. Brian, is a Staff Chemist with *General Electric's* Corporate R & D They visited Dr. Corey in Maine this summer and also went to San Francisco where Brian attended the Molecular Imaging Conference. He works on biopolymers used in MRI applications. His chemistry involves attaching ligands to polypeptides for MRI diagnostic imaging using Gd reagents. Yana tells us that Brian got 'yet another' Managerial Award recently!



Dr. Anderson with graduate student Angie Schmitt (BS 2001) winner of the 2003 Jack L. Coombs Award for the Outstanding Teaching Assistant for 2002-2003 at the Awards presentation.

Michael Washington Ph.D, after studying under Dr. David Larsen, was downsized at *Monsanto* when the company split to form *Solutia* and *Monsanto* in 1997. He had worked for the company since 1985. He then went to work for *Sigma-Aldrich* and was there from 1997 to 1999. In 1999, he started working for *Tyco Healthcare/Mallinckrodt* in Hazelwood, where he supervises the analytical development for nuclear medicine research for the company's Imaging Division's R&D department.

Kidane Weldemichael BA teaches chemistry at the new Vashon High School. His wife, Lydia Equbay, is a student in computer

science at UM-St. Louis and she works in the Physics department. Kidane was in the department this fall.

1999

Martin Hayes BS is a Ph.D. student at MIT. When he contacted us he was completing a project so he could start a total synthesis before the on-campus interviewing process started last September. He gave a poster at the New York ACS meeting in September and was hoping to get his work published in time for on-campus interviews. Martin and his wife Antoinette (Morris) (BS Biology 2000) are planning to stay in Boston for a few more years. Toni is starting a masters program in Toxicology at Northeastern this fall that they expect should last 2-3 years.

Linyong Mao Ph.D. is continuing his postdoc in bioinformatics in the Computational Biosciences group at the Pacific Northwest Laboratory (<http://www.emsl.pnl.gov/docs/cbbb/>) and will be staying there at least one more year. One of his research projects involves gene regulatory networks in microbes and another project was related to analyzing data from gene chips. We were pleased to hear from Linyong just before the Christmas holiday.

Qingzheng Wang Ph.D. moved from Wisconsin, where he was doing a postdoc with Bob West, to Chicago and started conducting organosilicon research at Argonne National Laboratory as a postdoc. He says he had a wonderful time at the University of Wisconsin and hoped to continue to meet with Professor West who often visits Argonne. Q has been developing organosilicon-based electrolytes for electrochemical applications.

Scott Randle BS is in the MS degree program. Scott is at *Mallinckrodt (Tyco-Healthcare)* and recently moved to a new home. He and his wife have a one year old daughter.

Malcolm Arendse PhD who returned to the University of the Western Cape following completion of his doctoral work with Dr. Anderson, last summer left Western Cape to work at the *Anglo Platinum Research Center* in Johannesburg, South Africa. This is associated closely with the *Johnson Matthey Research Center* in Royston, UK.

Paul Mcquade PhD continues his postdoctoral research at Washington University with Mike Welch. This summer he attended the *International Symposia on Radiopharmaceutical Chemistry* in Australia where he made 3 presentations. After the conference he and wife Jen spent a couple of weeks vacationing along the Barrier Reef. They recently purchased and moved into a house in the Benton Park neighborhood in South Saint Louis. He informed us that he has 3 papers out or coming out this year on positron-emitting isotopes in addition to a paper from his thesis research with Dr. Barton.

Michelle Sharpe BA (MS 2001) was with *Pharmacia*, and is presumably now with *Pfizer*.

Katherine Block BS was also with *Pharmacia*, presumably now *Pfizer*. She has been active in the St. Louis Section of the American Chemical Society

2001

Rachel Hercules BA is with *KV Pharmaceutical* in St. Louis. Rachel who is in the MS program and colleague **Frank Dover** who is also in the MS program filled us in on other alumni who are with KV Pharmaceutical. They include **Martin Mantler**, BS 1983, **Michael Schreiner**, BS 1993, **Carl Irwin** BS 1978, MS 1987 and **Victor Grant** BS 1977.

Edyta Schranz MS is in Bloomington Indiana where husband Ingo is doing a postdoc with Ken Caulton after completing his Ph.D. degree at the University of North Dakota. They recently proudly announced the birth of their second daughter Emily Isabelle, born on June 14th. She looked just like her sister Nicole as a newborn.

2002

Marjori Nutt BS works at *Seven – Trent Laboratories*, formerly *Quanterra, IT, Metatrace*, as Supervisor of the Organic Preparations Department, in St. Louis.

Wei Zhu MS (who also obtained a MS degree in computer science at UM-St. Louis) was working with *Sepracor* in Providence, RI but recently moved to *Capitol One* in Richmond VA, to work as a Data Analyst. In the long run, he tells us that he plans to pursue a higher degree in Finance or Business administration part-time. His wife was studying at the University of Rhode Island.

2003

Padma Nair Ph.D. who did her thesis research with Professor Anderson, moved to join husband Anil in Tucson last year. She is doing postdoctoral research with Professor Victor Hruby at the University of Arizona and was expecting a baby when we heard from her last June. We recently heard from Dr. Anderson that Padma and Anil had a baby boy, Pranav Chandra, on October 5.

Mesfin Janka Ph.D. also completed his degree work with Dr. Anderson. He is now doing postdoctoral research with Professor Richard Eisenberg at the University of Rochester. He was married last year and he and his wife had a baby boy Yonathan on their wedding anniversary, September 2.

Bryan Tienes BS had been working in Professor Pigge's lab over the summer following graduation. He is now employed by the *Steris Corporation* in Saint Louis.

Mark Ulrich BS who works for *Sensient-Colors Inc.*, formerly *Warner-Jenkinson* in St. Louis is enrolled in the MS degree program in the department. We read in the UMSL Magazine that his second son, Brady Christopher was born July 2002, joining brother Sean Michael.

Henghu Zhu PhD spent a short period as a postdoc at the St. Louis University Health Science Center prior to moving to Washington University School of Medicine as a postdoctoral fellow to conduct research chemical biology and chemical genetics.

Alumna Jeanette Hencken, BA 1985, featured in St. Louis Post Dispatch article.

Jeanette Hencken a chemistry teacher at Webster Groves High School she conducted a project on forensic science that was described in the *St. Louis Post-Dispatch* earlier this year, as follows:

"The teens from Webster Groves High School scoured a Payless shoe store's aisles, passing over the fluffy slippers and high-heel pumps. Neither seemed likely footwear for a killer. They chose soles with tread: hiking boots and sneakers of the kind they could imagine leaving a bloody footprint after a murder. The purpose of the shopping trip was to solve murders - possibly even killings that haven't happened yet - or other crimes committed by someone who left tracks behind. It's part of an unusual project involving the students, a St. Louis police crime scene expert and the FBI. Webster Groves is the only high school in the country working on such a project with the FBI, said **Harold Messler**, (BS 1970) the manager of the St. Louis city police crime lab who came up with the idea. Twice a year, forensic science students at Webster Groves High photograph and catalog non brand-name shoes to be added to the FBI Laboratory database in Washington. The tedious work yields hundreds of images that could help police from anywhere in the nation. "I don't know how often crimes are committed in Payless shoes, but it may happen someday," said sleuth Michelle White, a senior. Each year, many shoe manufacturers send photos of their shoe treads to the FBI. It has collected more than 10,000 to use for comparison to prints from crime scenes. But the busy lab has little time to search for more obscure soles to add to its data. Stores that sell their own brands, created overseas, don't send images, said Sandra Wiersema, an FBI forensic examiner. "The only way to get those images is to photograph them ourselves," she said. "And we don't have time." That's why the students agreed to help. "It's awesome how we can create something that the FBI can use to catch criminals," said senior Chris Ray. Messler took a class in footwear impressions at the FBI academy in 2001. The FBI needed the data but didn't have a solution to the problem, he said. Messler thought of **Jeanette Hencken**, a biology teacher turned forensic science instructor at Webster Groves. She had a lot of manpower and was looking for a project, Messler said. **Hencken** applied for grants and bought equipment to get started. She arranged field trips to stores such as Payless and Wal-Mart. On Friday, students visited two stores in Kirkwood. They set up an assembly-line-like process in an aisle, pulling out men's and women's shoes in size 9. They digitally photographed each shoe, upside-down in a box. Then they entered the make and model number in a laptop computer. Later, the students will spend months cropping the photos and entering details about each shoe into a database. They inspect the soles for distinct characteristics -



logos, bars, circles, lugs and squares. It's important they learn about the details of collecting information and evidence, **Hencken** said. The students forward their work to Messler, who edits and crops the images again. Then he mails the information to the FBI. The first effort, last year, was inadvertently destroyed before it reached the lab. The computer disk was melted by anti-terrorism scanning equipment in the FBI mailroom. "We figured out how to work around that," Messler said. The project could cut out hours, days and weeks out of an investigation if it helps police to determine what type of shoe they are dealing with, he said. Students said it provides them with rewards, too. Several are considering careers in forensic science since taking **Hencken's** class. "This is not like a desk job," Ray said. "It's exciting to get into the field. It can never get boring."

Graduates, Dec. 2002 through Aug. 2003

DECEMBER 2002

Darija Bajramovic, BA
Timitra Robinson, BA
Michael Steevens, BS
J. Michael Bryan, BS
Kristofer Masgio, BA
Mesfin Janka, Ph.D
John Kozlowski, MS
Bradley Rowe, Ph.D
Mark Ulrich, BS

J. Michael Bills, BS
Berevan Baban, MS
Padmanetra S. Bellur, MS
Dan Gu, MS
Matthew Marshall, BA
Charles Jeffries, Ph.D
Padma Nair, Ph.D
Weidon Zhu, MS

MAY 2003

Lisa French, BA
Y. Gincheran, BA
Mario Gruden, BS
Dijana Hadxiselimovic, BA
Elaine Katz, BS
Kristofer Masgio, BS
Gabriel J. Meyer, BA
Darren R. Rauscher, BA
Charles Sommers, BA
Thomas J. J. Ronan, BA

Bryan Tienes, BS
Judy Yuen, BA
Eric Bruton, Ph.D
Lori Bowen, MS
Anyu He, MS
Joe Ochesky, MS
Jim Smoot, MS
Bingli Yan, MS
Brian SeEVERS, BA

AUGUST 2003

Amy Thanavaro Ph.D
Peter Kpere-Daibo, BA
Cherise Pruit, BS
John Coniglio, Ph.D.

Kevin Trankler, Ph.D
Jason Lindley, BS
Colin White, MS
Kimberly Dill, MS

Thomas F. George becomes our Seventh Chancellor

Thomas F. George became the University's seventh chancellor on September 1, 2003, after serving seven years as chancellor of the University of Wisconsin-Stevens Point. As chancellor, he oversees all academic and administrative operations of a campus with 2,500 faculty and staff members, 40 academic buildings and a \$150 million annual budget.

In addition to his role as campus and community leader and fundraiser, George is an active researcher in chemistry and physics, specializing in chemical/materials/laser physics. His research,

including innovations in teaching, has been funded for more than 30 years from a number of federal agencies and private foundations. His work has led to over 600 articles/chapters, two co-authored textbooks and 14 co-edited books. His scientific achievements have garnered prestigious awards such as the Marlow Medal and Prize from the Royal Society of Chemistry in Great Britain and fellowships from the Guggenheim, Sloan and Dreyfus foundations.

An accomplished jazz pianist, George has studied with faculty at the Berklee College of Music in Boston and the Eastman School of Music in Rochester, N.Y., and he has performed extensively in public. In a duo with a trumpeter-flügelhornist, he recorded the album "Close Your Eyes: Women Jazz Composers" on the Hester Park label. George earned his bachelor's degree (Phi Beta Kappa) in 1967 with a double major in chemistry and mathematics from Gettysburg College in Pennsylvania. He earned a master's degree in 1968 and doctoral degree in 1970 in theoretical chemistry from Yale University in New Haven, Connecticut, followed by postdoctoral appointments at the Massachusetts Institute of Technology in Cambridge, Massachusetts, and the University of California at Berkeley.



A group at the St. Louis ACS Local Section Women's lunch, left to right Janet Wilking, Linda McDowell, Lisa French, Cindy Dupureur, Grainne Biddlecombe, featured speaker Madeleine Jacobs (the new ACS Executive Director) Christina De Meo and Joyce Corey.

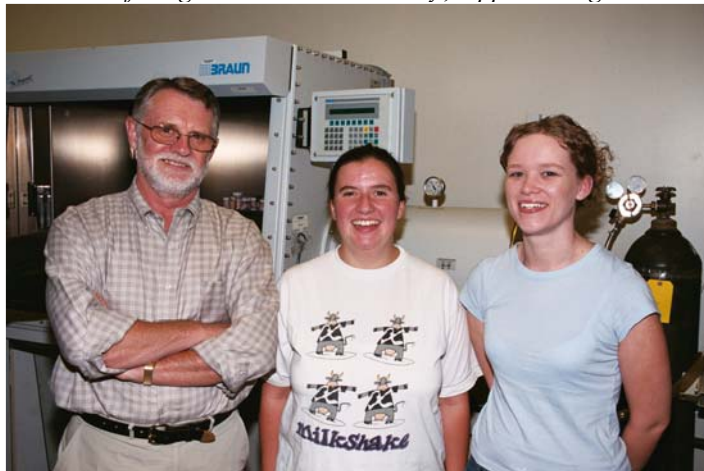
In 1972, George joined the faculty at the University of Rochester in New York, where he was promoted to full professor of chemistry by age 29. In 1985, he moved to the State University of New York at Buffalo as dean of the faculty of natural sciences and mathematics, a position he held for six years. After spending five years as provost and academic vice president of Washington State University in Pullman, he was named chancellor of the University of Wisconsin-Stevens Point.

The Faculty

Gordon K. Anderson continues to serve as chair of the department. One major success in the past year has been gaining approval to hire two new faculty members in biochemistry to start in fall 2004, at a time when many departments have lost faculty members. He also coordinated the department's more recent five-year review, which occurred in early 2003. The review went well,

with the external reviewer and campus review teams recognizing the many strengths of the department. Dr. Anderson taught introductory chemistry in both winter and fall 2003, and continues to be active in research. He currently has two graduate students in his lab, including a compatriot from Scotland, so soccer (or football) is an important topic of conversation, in addition to chemistry of course! His two most senior graduate students, Padma Nair and Mesfin Janka, graduated in January 2003, and moved on to Tucson and Rochester, respectively.

Lawrence Barton is working hard to maintain his research program after losing two excellent postdocs last year, and seeing the expiration of one of his NSF grants. He currently has two students in the lab, a second-year graduate student, Grainne Biddlecombe, from Dublin Ireland, and an undergraduate student Kristina Alderman. In spite of a heavy teaching load this year, he has managed to write several grant applications and publish six articles. Among the latter are articles in *Organometallics*, the *Journal of Organometallic Chemistry*, *Applied Organometallic*



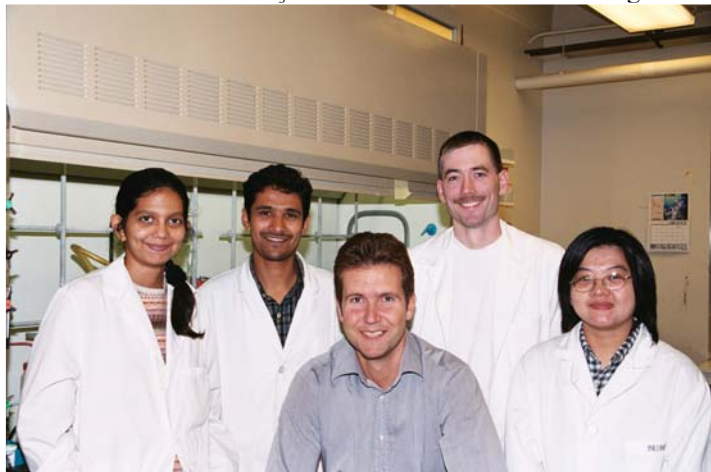
Dr. Barton in his laboratory with students Grainne Biddlecombe and Kristina Alderman

Chemistry, the *Journal of Pure and Applied Chemistry* and a book chapter. He spent a couple of weeks at the University of Leeds with collaborator John D. Kennedy in June and also attended the national and regional ACS meetings during the year. He is still active in campus affairs and perhaps the most important activity of the year was to serve on the Chancellor Search Committee, which results in Thomas F. George becoming our seventh Chancellor. He serves on the Alumni Association Board, as the representative of the Chemistry Department on the Faculty Senate and University Assembly and on several campus committees including Budget and Planning. He regards his activities involving alumni affairs as his most important ongoing campus service contribution.

James S. Chickos' current research group consists of three graduate students and two undergraduates. He survived a bicycle trip on the Katy Trail from Sedalia to St. Charles this past summer with Jonathon Harburn, a former Chris Spilling postdoc and adjunct faculty member. He taught Chemistry 11 for the first time ever last semester. He continues to collaborate with chemists in Portugal, Spain, Romania, Japan, Israel and the US. He has had a visiting graduate student and a postdoc from Israel and Portugal in the lab recently and hopes to have a colleague

from Spain to do so in the near future. His research program has been very productive recently and he is currently publishing at the highest rate in the department.

Joyce Y. Corey tells us that she has had a relatively quiet year. She attended three conferences. The first was the national ACS meeting in New Orleans, primarily for the editorial board meeting for *Inorganic Chemistry* but she certainly enjoyed the food as well. In May, she and **Janet Wilking** and as well as the Ph.D. student, **Lisa French**, whom she and Janet are codirecting, attended the 36th Organosilicon Symposium held at the University of Akron. Former Ph.D. student **Jean Huhmann-Vincent** gave one of the talks that she attended. It was really an impressive presentation and it was great to see a UMSL graduate do so well, she tells us. The third meeting was the Organometallics Conference held in Newport, R.I. in July. She usually stops off there on her way back from Maine. Joyce and Janet (with students **Lisa French** and **Kim Dill**) were coauthors on a poster presentation. Two students finished this year: **Kim Dill** with a Master's degree which she defended in June and **Kevin Trankler** who defended his Ph.D. thesis, also in June. She still has writing projects. She completed a review of dehydrocoupling which will be published in *Advances in Organometallic Chemistry* in volume 51. She and **Janet Wilking** published the first version in *Chemical Reviews* in early 1999 and she has been working on the



The Demchenko research group, left to right Medha Kamat, Umesh Gangadharmath, Dr. Demchenko, James Smoot and Papapida Pornsuriyasak.

update since. Somehow there seem to be as many references in this one that covers 1999 through the end of 2003 than there was in the first one that covered about 18 years! She hopes this one sees the light of day by the end of 2004.

Valerian T. D'Souza' research group has diminished but he was able to publish an article in the *Journal of Supramolecular Chemistry* this year and his graduate student, **Jyothy Swami** presented three papers on their joint research at the Midwest ACS Regional Meeting, in Columbia, in November. Jyothi expects to complete her Ph.D. degree soon and Vally is pleased that she has just found a position with *Meridian Pharmaceuticals*. Last August Professor Wilfred T. Mabusela from the University of the Western Cape, South Africa, spent a month with Dr. D'Souza, in the department. Their collaboration began when Vally met him during his stay at the University of the Western Cape during the summer of 2002. Vally and his wife Phyllis recently moved into

a larger house in Belnor.

Alexei V. Demchenko, who joined the department in August 2001, has initiated a vigorous research program in the area of synthetic carbohydrate chemistry. These efforts resulted in ten research publications and invited contributions that appeared in 2002-3 in international journals including *Organic Letters*, *Synlett*, *Tetrahedron Letters*, *Current Organic Chemistry*, and *Journal of American Chemical Society*. Alexei received a UM Research Board Award for his project "New methods for the stereoselective 1,2-cis glycosylation", a UMSL Research Award to fund the purchase of a MALDI mass spectrometer, and an Award of Meritorious Service. He was also invited to co-chair a thematic session on "New Methods in Carbohydrate Synthesis" at the *Twelfth European Carbohydrate Symposium* (Grenoble, France). Members of the Demchenko laboratory, *Glycoworld*, delivered 6 posters and two oral communications at local and international conferences, such as the *Sixteenth UM Organic Day*,

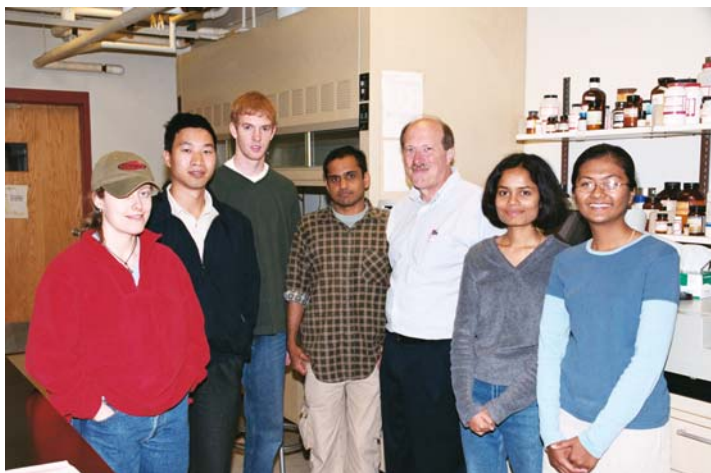


The Dupureur group including Julie King, Paul Johnson, Cindy, Michael Cox and Lori Bowen.

the *Gordon Research Conference on Carbohydrates* and the *European Carbohydrate Symposium*. Currently the core of the *Glycoworld* consists of graduate students, Mr. James Smoot, Ms. Medha Kamat, Ms. Papapida Pornsuriyasak, successfully working toward their doctorate degrees, and a post-doctoral research fellow Dr. Umesh Gangadharmath. Postdoc Nelli Malysheva has returned to Russia to continue her work in Russian Academy of Sciences and Cristina De Meo has accepted a faculty position at SIU Edwardsville, where she will establish an independent sialic acid chemistry and biochemistry research program. Undergraduate researchers Linda Ridenhower, James Clark, Jonathan Silva, Masters student Jamin Graham, and Natalia Plechkova have to be also acknowledged for their efforts and valuable contribution to overall success of the *Glycoworld* in the 2002-3 academic year. Updated information in current research activity of the Demchenko *Glycoworld* can be found on the Demchenko web site.

Cynthia Dupureur's research lab is in a strong growth phase with the addition of a postdoctoral fellow Julie King and new graduate students. Dr. Jim Riehl's visit to the Department led to collaboration between his group and Dr. Dupureur's. Indeed PhD student Lori Bowen has been making trips to Duluth, MN to conduct Eu-laser spectroscopy on PvuII endonuclease. Dr.

Dupureur has also been busy off campus this past year. She gave lectures at U Ill, U Arizona, UM Kansas City, Saint Mary's College and at her alma mater, Southwest Missouri State University. She also flew to Washington, DC twice this past spring to serve as a grant proposal reviewer/panelist for both the NSF and the NIH. Dr. Dupureur's group enjoyed presenting research at a number of meetings this past year. They attended the Midwest Metals Meeting held at Washington University in May and the Midwest Enzyme Conference at Northwestern University last October with Don Becker's lab. In June, Dr. Dupureur attended the Gordon Conference on Nucleic Acids in Newport, RI.



Dr. Harris with his research group members, Claire Brook, Peng Xiong, Steve Lichtenberg, Satish Annigeri, Rashmi Kaithavalappil and Sujittra Srisung.

Thomas F. George became the Seventh Chancellor of the University of Missouri-St. Louis on September 1, 2003. He then interviewed for a faculty position in the Department of Chemistry & Biochemistry and the Department of Physics & Astronomy and was eventually named as a professor in each department. He is remaining quite active in his research areas of chemical/materials/laser physics, molecular clusters and nanostructures, and nonlinear optics. In collaboration with scientists around the world in places such as China, Finland, Hungary, Korea, Russia and the USA, he continues to submit and publish manuscripts in leading journals such as *Physical Review*, and he is a co-principal investigator on a grant funded by the NSF and on several proposals under consideration by NSF and the Department of Defense. In November he was flown to Korea by the Korean Academy of Science and Technology to be a Distinguished Lecturer and become the 58th foreign member to be inducted into the Academy (33 of the foreign members are Nobel laureates). While in Korea, he also completed an agreement for student exchange between Korea University and UMSL. While he does all the usual sorts of service activities expected of an active science faculty, like reviewing for journals/proposals, serving on NSF panels, etc., he is currently one of the two editors of the *International Journal of Theoretical Physics, Group Theory, and Nonlinear Optics*.

Harold H. Harris spent part of his 2003 summer in Cincinnati, working with coauthors (one of them his wife, Mary) on a new edition of the Hands On Plastics Kit. This project, intended for middle school kids, allows one to identify all of the common

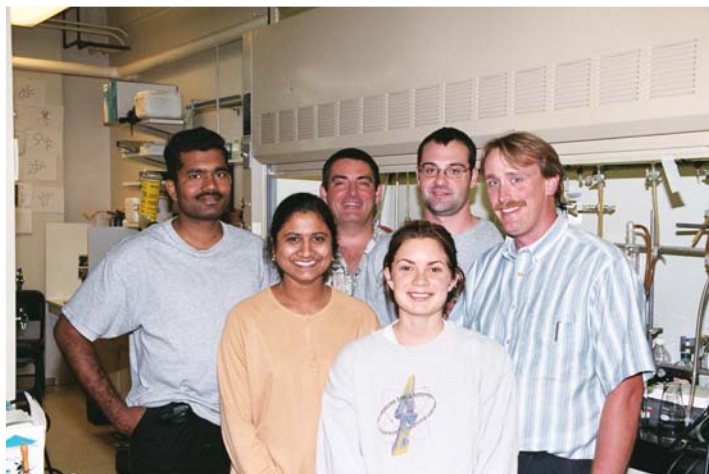
types of recyclable plastics. The American Plastics Council has distributed over 35,000 kits so far. The current kit can be seen at http://www.teachingplastics.com/hands_on_plastics. He spoke about his "Hal's Picks" Web column at the ChemEd Conference in Auburn, Alabama in August, and also at the Midwest Regional Meeting in Columbia in November. Hal's Picks can be seen at <http://www.umsl.edu/~chemist/books>, and are also the basis for his annual recommendations for summer reading in the June issue of the *Journal of Chemical Education*. Professor Harris continues to torture physical chemistry students with Mathcad, a powerful symbolic mathematical processing program. (It's only tortuous until you figure out how to use it!). He spoke about his methods of teaching Pchem with the use of such software at the Midwest Meeting of the ACS, and a tutorial he wrote for teaching the Carnot Cycle is being translated from Mathcad to Mathematica (another program with similar capabilities) and will appear in the January issue of the *Journal of Chemical Education*. He has been directing the chemical education research of graduate student Elizabeth Hansen, whose about-to-be finished thesis is a study of the impact of changes that the department has made over the last few years in the way in which Introductory Chemistry is taught. What could be more interesting than a study of us? In a nutshell, the new methods (Workshops, inquiry-based laboratories, course management through MyGateway, etc.) have very substantially increased the amount that students learn in the courses, but hasn't had a significant impact on whether they have adopted scientific modes of thinking.

Wesley R. Harris was an invited speaker at a workshop on the importance of speciation in metal toxicology at the *Society of Toxicology* national meeting in Salt Lake City, March 10-14, 2003. He is about to submit a review article based on the meeting talk that will appear in the SOT journal *Toxicological Sciences*. He presented a poster at the annual meeting of the *International Bioiron Society*, held this year Bethesda, Md, on May 5 -10. During that trip he also attended an annual meeting at the NIH of PI's funded to work on problems related to iron overload diseases. On June 24, he presented a seminar at the monthly Missouri Metals Meeting at Washington University. This is a monthly seminar series organized by local research groups from WU, UMSL, and the Danforth Center that share a common interest in metal ions in biological systems. In May 16 and 17 Dr. Harris and his group attended the *Second Midwest Metals Meeting* at Washington University. This is a regional meeting, attended by bioinorganic types from Midwest states, primarily Missouri, Iowa, Illinois, Michigan and Wisconsin. Graduate students Claire Brook and Peng Xiong and postdoc Satish Annigeri all presented posters. In October, we received the sad news that his Ph.D. advisor and long-time friend and colleague, Professor Arthur Martell, passed away after incurring a head injury in a fall at his home in College Station, Texas. Dr. Harris and Dr. Mike Welch from Washington University flew to College Station to attend the memorial service for Professor Martell. In November Dr. Harris and his research group attended the Midwest Regional ACS meeting in Columbia, MO. Claire Brook, Peng Xiong, and Satish Annigeri all presented posters at the meeting.

James J. O'Brien is working hard to maintain his research program in spite of having a graduate student leave in the middle of the semester. He is now doing all the work either on his own or in collaboration with Leah O'Brien who is at SIU-Edwardsville

and with whom he has a joint NSF grant. He is also funded by NASA for work he is doing on the simulation of outer planetary atmospheres and the measurement of high resolution spectra of them. He and his family went to Alaska for their summer vacation and are going to Australia this Christmas holiday. His daughters Emily and Christine are very active in volleyball. Jim provided all the department photographs included in this issue and for that we are very grateful.

F. Christopher Pigge continues to serve as the Director of Graduate studies. His research group has grown with two new Ph.D. students this year. He graduated his third Ph.D. student (**John Coniglio**) this past August. Chris attended the ACS National Meeting and presented a talk last March in New Orleans. He also attended the recent ACS Regional Meeting in Columbia MO, where all the members of his current research group made presentations. His son celebrates his first birthday next week and his two daughters are now 7 and 5.

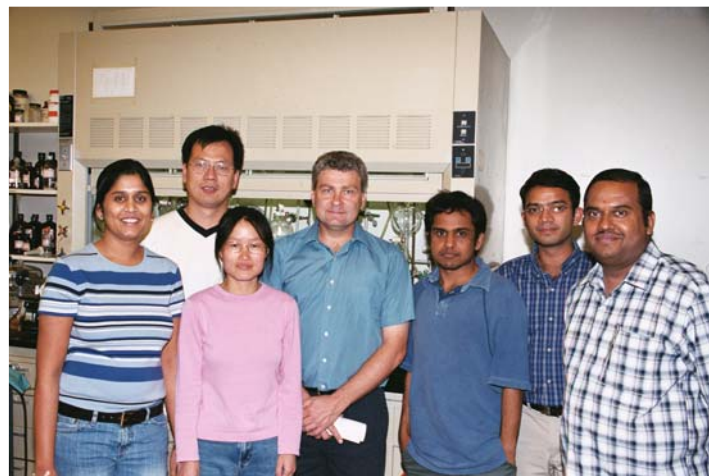


The Pigge research group, left to right, Senthil Kumar, Shobba Malgiredy, John Coniglio, Angie Schmitt, Erik Hoefgen and Dr. Pigge

Nigam P. Rath who was recently promoted to Research Professor has been spending his time collecting data, solving structures and teaching summer and regular semester courses. He was instrumental in offering a web based general chemistry course. With more than 200 crystal structures to work with he still could manage to get away to India during last summer and visited his family and Berhampur University, India. He is active in STARS program and his summer student's research paper was chosen for research award. The x-ray laboratory is extending collaboration with the help of our alumni. On the personal side, his daughter, Niharika Rath, an eighth grader in the Parkway Northeast Middle School was one of the finalists in the *St. Louis Post Dispatch Spelling Bee*.

Christopher D. Spilling received a grant from the NSF earlier this year: *Catalysts for Asymmetric Phosphorylation and Synthetic Applications*, and another from the *Thrasher Foundation* in collaboration with Wes Harris. Several graduate students finished this year including **Joe Ochsky** who graduated with MS degree in May 2003, **Bradley Rowe** who received a Ph.D in May 2003 and **Anchalee Thanavaro** graduated with a PhD August 2003. Chris presented lectures at Western Michigan University and the University of Memphis. He attended Missouri

Organic Day at UM-Columbia and the Midwest Regional ACS Meeting also at UM-C with his research group. He attended the Organic Reactions and Processes Gordon Research Conference in Rhode Island in July and took several vacation trips to Michigan over the summer with Family (Kathy, Andrew 12, Robert 10 and William 5) and met with **Bill and Dawn Shiang** in Midland. His current research group is shown here. Chris filled us in on his former research group members. Former postdoc **Vince Blazis** is with *ABC Laboratories* in Columbia MO and **Jon Harburn** returned to the UK permanently on December 16. Among his former PhD students, **Kevin Koeller** was recently down sized from *Pfizer*, **Cecilia Marzabadi** is Assistant Professor of Chemistry at Seton Hall University in New Jersey, **Toni De la Cruz** is Lecturer in Organic Chemistry at Creighton University, Omaha, NE, **Todd Boehlow** is in Process Development with *Pfizer* and **Isabel Vasconcelos** who had been with *Ecolab* in Brazil was expecting her second child but he had not heard anything. **Hossein Shabany** is with *Monsanto*, **Brad Rowe** is with *Mallinckrodt Medical* and **Anchalee Thanavaro** married **Kevin Trankler** and is looking for a job. Of his MS students **Yihua Liao** is still at *Aries Technologies*, Boston, MA, **Mike Groaning** returned to the US (with Roche) from Switzerland to work in Colorado, **Luis Llamas** works with a small Pharma company in Cleveland and **Joe Ochsky** is a chair lift operator in Winter Park, CO.



Dr. Spilling and his research group, left to right, Pallavi Badkar, Anyu He, Bingli Yan, Chris, Satish Annigeri, Praveen Komana and Sampath Kumar.

Keith Stine is continuing research in the area of monolayers now focusing on the interactions of some plant toxins with phospholipid and cholesterol monolayers. A poster concerning the project was presented at the recent Midwest Regional ACS Meeting with part-time MS degree student **Rachel Hercules** (BA 2001) as co-author. At present, he has no research group. Dr. Stine taught Introductory Chemistry I for the first time this year and thus has now taught both semesters of Introductory Chemistry. He has also been busy preparing materials for an invited course in surface chemistry to be presented at Chulalongkorn University in Bangkok in January 2004 consisting of 22 lectures delivered intensively over a period of six days. During 2003, he completed his second year as Secretary of the Saint Louis Section of the ACS. An updated version of his chapter on "Chirality in Monolayers" appeared in the on-line

version of the Encyclopedia of Surface and Colloid Science. During the spring of this year, he was treated for the same illness once suffered by Lance Armstrong, but in a less advanced form. Despite this, he has no intention of starting to ride a bike.

Janet Braddock-Wilking was thrilled to receive a substantial NSF grant in July 2003 to continue her studies on *(PtSi)x Aggregates from SiH Bond Activation*. Her MS student, **Kimberly Dill**, MS with thesis, graduated August 2003, co-directed with Professor Corey. **Lisa (Emery) French** (BA 2003) is working on Ph.D. project under direction of Drs Corey and Wilking. Her research group presented posters at 36th Organosilicon Symposium in Akron, OH and Organometallics Gordon Res. Conf. in Newport, RI in May and July, 2003, respectively. **Kevin Trankler** (BS 1997, Ph.D. 2004) recently joined Janet's research group as a postdoc.

Zhi Xu and **Dr. D. W. Larsen** have made significant advances in the field of Ultrasensitive Spectroscopy. Mr. Adam G. Tournier of the Department of Physics and Astronomy joined Dr. Xu's research group this year.

Joseph Dence and **John L. Gutweiler** continue to be the "permanent" part-time faculty members. John teaches every semester and Joe almost the same. John has been with us since 1972 and Joe since the mid 1980s.

Emeritus and Former Faculty Colleagues

Charles Armbruster was in town in September and we were delighted that he was able to attend the Founders' Dinner, which was part of the 40th Anniversary Celebration. He enjoyed meeting some of his former faculty colleagues as well as some of his former students. Charlie lives in a beautiful home in Orlando and also has a beachside condo.

Ken Barnett and his wife Pat retired this year. Ken had been with *Ashland Chemical* in Dublin OH since leaving here in 1979, and Pat had been teaching. We hear that their children Lisa and Chris are doing very well, Lisa and her husband Tim are thespians and apparently quite successful and Chris and his wife Julie are teachers and have two sons.

Lee Brammer is now at the University of Sheffield in the UK. He had three students completing their degrees when he left. One, Eric Bruton received his Ph.D degree in May 2003 and Colin Rodger and John Swearingen continue to write their theses.

David L. Garin is irregularly a fixture in the department. Dave taught organic and freshman chemistry for a couple of years after retirement. He is currently the Vice President of the UM-St. Louis Retirees Association.

Dr. David W. Larsen spends much time in the department collaborating with Zhi Xu on the development of techniques and instrumentation for high-resolution spectroscopy.

Robert W. Murray continues to come into the department every couple of weeks or so. He continues to follow university and campus affairs closely and is available for a lively conversation on such matters when he is in the department. Bob is an active

member of the UM-St. Louis retirees association and continues to travel occasionally.

James P. Riehl is Dean of Science and Engineering at the University of Minnesota-Duluth. He presented a seminar in the department last March. Jim continues to be very active and successful in his research, which allows him to travel the world to meet with his collaborators. He is also collaborating with Cindy Dupureur and her students. His son James is a second year graduate student at UC-Santa Barbara studying systems engineering and Patrick works with *Analog Devices* in Boston.

William J. Welsh is the *Norman H. Edelman Professor in Bioinformatics* Department of Pharmacology Robert Wood Johnson Medical School. He is Director of the Informatics Institute of the University of Medicine and Dentistry of New Jersey. We hear from Bill and his wife Sue on occasion and he appears to be thriving in New Jersey.

Rudolph E. K. Winter comes into the department Mondays through Thursdays and on Fridays for the graduate student seminars. He continues to run the MS facility with Joe Kramer and also conducts research in collaboration with colleagues here and at UM-Columbia. This year we added a *Finnegan Lasermat* MALDI time of flight mass spectrometer to the Mass Spectrometry Facility which includes the JEOL [JMS-700] and the Hewlett Packard GC/MS System Model 56988A. When he is not in the Facility, Rudi may be found in his lab. This year he co-authored a paper presented at the ACS Midwestern Regional Meeting with colleagues from the Department of Entomology at UM-Columbia and also on a paper published with Dr. Barton and one of his graduate students.

The Robert W. Murray Lectureship

This departmental function continues to be the major event of the visiting speaker program. We have been able to host some very distinguished chemists and this past year was no exception. The speaker was T. Don Tilley Professor of Chemistry at the University of California Berkeley. He spoke on *Zirconocene-Coupling Routes to Macrocycles, Oligomers, Polymers and Conducting Polymers*, on Monday, March 17, 2003, and the lecture, held in the old Benton 120 (now 102), was very well attended as usual. The event was preceded by a banquet at the Glen Echo Country Club where several distinguished guests were in attendance. Dr. Jacqueline K. Barton, *Arthur and Marian Hamish Memorial Professor and Professor of Chemistry* at the California Institute of Technology will give the Seventh Annual Robert W. Murray Lecture on Monday, March 15, 2004.

The Lawrence Barton Scholarship

This Scholarship is designed primarily for junior chemistry majors who are first generation college students and who have some financial need. The endowment now allows for a stipend of \$1,000. The 2003-2004 recipient is **Steve Lichtenberg**.

The M. Thomas Jones Memorial Fund

This Fellowship is the only endowment that recognizes

performance by graduate students. It was initially funded through contributions from family, friends and colleagues of Dr. Jones



The 2003 Murray Lecturer, Professor T. Don Tilley

and recently his widow Patricia Jones has made substantial contributions to allow us initially to endow it and very recently to improve it. Currently it is used to fund an annual award for the top graduate student seminar. The graduate students vote on this award and in 2003 the award was split between **John Coniglio** and **Kevin Trankler** (BS 1998, Ph.D. 2004). John also graduated in 2004. If you are interested in supporting graduate students, you are certainly welcome to designate your contribution to this fund.

Barbara Brown Fellowship for Women in Chemistry

This fellowship is designated for women students over the age of 24 and **Barbara (Willis) Brown** (BA 1984) established it. The 2003-2004 fellowship went to **Kimberly Goodman**. Again, this is the only fund, which supports women students so you can designate your contribution to this fund if you wish.

The Eric G. Brunngraber Undergraduate Research Fellowship

This Fellowship, which has existed since the late 1980s but was recently endowed by the family of the late Eric G. Brunngraber, supports undergraduate research. If you are interested in supporting this important aspect of the department's activities, you may designate your contributions to this fund.

The major endowed award, the **William and Erma Cooke Memorial Scholarship**, is designed primarily for sophomores. Dorothy and Al Greco endowed it in honor of Dorothy's parents William and Erma Cooke. It has provided support for two students annually now since 1992 and is the major departmental scholarship. In 2003 Feoolwships went to **Shu Yao** and **James Banto**.

Departmental Awards for 2002-2003

Undergraduate

The award for the *Outstanding Student in Introductory Chemistry* went to **Shu Yao**. She received a certificate and the *Handbook of Chemistry and Physics* from the Chemical Rubber Company. The *Award to the Outstanding Student in Sophomore Chemistry* went to **Tim Quagliata** and the *American Chemical Society Award for Analytical Chemistry* went to **Bryan Tienes** 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 **Steve Lichtenberg**. The award was presented at the annual Awards Night during the ACS St. Louis Section's Chemical Progress Week. **Kayla Gincherman** received the *Alan F. Berndt Outstanding Senior Award* and the *American Institute of Chemists-Student Award Certificate*. A *William and Erma Cooke Scholarships* for 2002-03 went to **James Banto** and **Shu Yao**. The *2003 Undergraduate Chemistry Awards sponsored by the Monsanto Company* were awarded to **Michael Petetit**, **Stephanie Davidson**, **Steve Lichtenberg**, **Jean Hochgesang**, **Tim Quagliata**, **Janet Xue**, **Kimberly Goodman** and **Nikolina Tueth**. The 2003-04 *Barbara Willis Brown Scholarship for Women in Chemistry* went to **Kimberly Goodman**, the 2003-04 *Eric G. Brunngraber Undergraduate Research Fellowship* went to **Joe Lupo** and the 2003-04 *Lawrence Barton Scholarship* went to **Steve Lichtenberg**. A *Certificate of Commendation for Outstanding Service* went to **Kayla Gincherman** as did the *Outstanding Undergraduate Teaching Assistant Award*.

Graduate

The 2003-04 *M. Thomas Jones Memorial Fellowships* went to **John Coniglio** and **Kevin Trankler**. The 2002-03 *Graduate Student Research Award* went to **Lori Bowen**. A *Commendation for Excellent Performance by a Teaching Assistant* was awarded to **Lisa French** and the 2002-03 *Graduate Teaching Assistant Award in Memory of Jack Coombs* was awarded to **Angela Schmitt**

Alumni

Jerry Ronecker gave the 2003 Distinguished Alumni Lecture. Details are to be found under *Alumni News* for 1982. The 2004 lecturer will be **Jean Huhmann-Vincent**, BA 1992, Ph.D. 1997. The lecture will be given on May 3 and more information about Jean is to be found under *Alumni News* for 1992.



Dr. Barton presenting a framed certificate to 2003 Distinguished Alumni Lecturer Jerrv Ronecker (BS 1982)

Contributions 2003

Below we list all the individuals, chemistry alumni and friends of the department who made contributions to the department this past year. 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 industrial matching funds or other such gifts because that list is more difficult to assemble.

CONTRIBUTIONS FROM ALUMNI AND FRIENDS

Mr. John C. Ackermann
 Dr. Dennis M. Anglim
 Dr. and Mrs. David A. Armbruster
 Dr. and Mrs. Phillip V. Asaro
 Mr. And Mrs. Michael C. Auinbauh
 Dr. and Mrs. Rajiv M. Banavali
 Dr. and Mrs. Lawrence Barton
 Ms. Rhea S. Baxter
 Ms. Phyllis R. Bennet
 Mr. And Mrs. John Blasé
 Dr. Teresa M. Blasé
 Mr. And Mrs. Paul D. Bostick
 Mr. And Mrs. Gregory R. Bradburn
 Mr. And Mrs. Kenneth H. Braig
 Dr. Barbara W. Brown
 Mr. And Mrs. William J. Brundick Jr.
 Mrs. Lois Brunngraber
 Mr. Eric A. Bruton
 Mr. And Mrs. Roger W. Buchanan
 Mr. And Mrs. Joseph W. Bulock
 Dr. and Mrs. Mark A. Burkholder
 Dr. and Mrs. John J. Chaber
 Dr. Minren Lin and Ms. Xiqin Chen
 Mr. And Mrs. Dennis K. Clapper
 Mr. Kevin R. Criscione

Mr. And Mrs. Sean D. Dingman
 Dr. Valerian T. D'Souza and Ms. Phyllis K. Stein
 Drs. Stephen and Kathleen Fallis
 Mr. And Mrs. Thomas W. Ferder
 Mr. And Mrs. James K. Grant
 Mr. Joseph G. Groaning
 Mr. And Mrs. Brian M. Gross
 Mr. And Mrs. Robert E. Halvachs
 Mr. Ellen C. Higham and Mr. Jack D. Hammer
 Dr. and Mrs. Harold H. Harris
 Mr. Richard E. Hauhart
 Mr. Raymond and Dr. Virginia Hauserman
 Mr. Richard F. Heinze
 Mr. And Mrs. Kenneth O. Henderson
 Ms. Kelli R. Herries
 Dr. and Mrs. Donald G. Hesse
 Mr. Ellen C. Higham and Mr. Jack D. Hammer
 Mr. Richard A. Hoyt
 Dr. and Mrs. Thomas F. Jenkins Jr.
 Mr. And Mrs. W. Michael Johnson
 Mrs. Patricia L. Jones
 Mr. And Mrs. Larry A. Justice
 Dr. and Mrs. Herbert J. Kaiser
 Mr. And Mrs. Brian L. Keller
 Dr. and Mrs. Mark A. Knollman
 Mr. And Mrs. John W. Koenig
 Mr. And Mrs. John R. Kolb
 Dr. and Mrs. Stephen A. Kolodziej
 Mr. And Mrs. Roger T. Kopp
 Mr. John S. Kozlowski
 Dr. and Mrs. Thomas C. Kuechler
 Dr. Shailendra Kumar
 Dr. Joan C. Kunz
 Dr. Robert L. Lamberg
 Dr. Brian J. Grimmond and Ms. Yanina Levchinsky-Grimmond
 Dr. Minren Lin and Ms. Xiqin Chen
 Dr. Yu Lin
 Mr. And Mrs. Raymond E. Logsdon Jr.
 Mr. Scott A. Long
 Mr. And Mrs. Donald J. Lutes
 Mr. And Mrs. Jeffrey Macke
 Mr. And Mrs. Stephen L. McCarthy
 Mr. Michael C. Merriman
 Mr. And Mrs. Steven J. Mertens
 Mr. Harold R. Messler
 Dr. and Mrs. Steve A. Mestemacher
 Mr. And Mrs. Brian Mohr
 Ms. Sharon J. Moran
 Dr. and Mrs. Robert W. Murray
 Mr. And Mrs. Victor L. Nelson
 Dr. Douglas G. Nuelle
 Mr. And Mrs. Donald O'Neal
 Dr. Dennis P. Parazak
 Mr. Lawrence E. Payette

Mr. Michael A. and Dr. Janet D. Place
Dr. and Mrs. Vincent U. Rapini Jr.
Mr. Bruce E. and Dr. Vicki M. Ritts
Mr. And Mrs. Robert T. Roither
Dr. and Mrs. Jeffery A. Ronecker
Drs. William R. and Dawn L. Shiang
Mr. And Mrs. Leslie M. Sprinkle
Dr. Valerian T. D'Souza and Ms. Phyllis K. Stein
Mr. And Mrs. Kevin W. Stewart
Mr. And Mrs. Robert A. Stockland Jr.
Mr. Daniel P. Stueck and Ms. Deborah Tannenbaum
Mr. And Mrs. Gregory E. Thudium
Mr. And Mrs. Dan C. Tucker
Ms. Joan Twillman

Mr. Angelo W. Vangel Jr.
Mr. James M. and Dr. Susan A. Varnum
Ms. Arlene F. Vogelsang
Dr. Paul B. Webb III
Mr. Michael J. Welsch
Dr. and Mrs. Dennis W. Wester
Drs. Bruce A. and Janet B. Wilking
Mr. and Mrs. Richard C. Wisneski
Mr. and Mrs. Eric E. Wright
Dr. Hongping Ye
Dr. Teshome Yisgedu
Dr. Henghu Zhu



The Blanche M. Touhill Performing Arts Center viewed from the southwest side of the building. The structure to the left with the curved window is the Lee Theater and on the right are the windows of the atrium outside the Anheuser Busch main theater.

UM-St. Louis Chemistry Alumni Fund

Enclosed is my contribution of \$ _____
_____ Yes I work for a matching gift corporation.
_____ I would like additional information
about bequests to the University

Designation for funds:

Robert W. Murray Lectureship _____
E.G. Brunngraber Fellowship (undergraduate research) _____
Lawrence Barton Scholarship _____
M. Thomas Jones Memorial Fund (graduate student support) _____
Barbara Willis Brown Women in Chemistry Scholarship _____
Undergraduate _____
Graduate _____
Unrestricted _____
Contact me; I have ideas for a new scholarship/fellowship or other fund _____
I have included the University in my estate plan _____

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

INFORMATION UPDATE 2004

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:

