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Chairman's Message (Christopher D. Spilling)

The department of chemistry and biochemistry has again undergone several changes in the last year. As you may have noticed from the name associated with this message, the department has new chairman. The previous chairman, Gordon Anderson, moved to East Tennessee State University as the Dean of Arts and Sciences. Although we miss him, the last few months



have proven to me that Gordon and his valuable advice are only an e-mail away. We also lost Gordon Kerschmann, the department electronics technician, through retirement August. Fortunately, we have also added several new people to the department. Two new assistant professors, Mike Nichols and Chung Wong, joined the department in the August. Mike is an experimental biochemist with interests in Alzheimer disease and Chung is a computational biochemist. Janet Braddock Wilking switched from being NMR director to a tenure track assistant professor in inorganic chemistry. A new NMR director, Rensheng Luo, will join the department in January. Rensheng is currently working as postdoc in protein NMR at St. Jude's Research hospital in Memphis. We were also fortunate to hire a new electronics technician, Mark Regina. Mark, who married to graduate Karen Jansen, started work in November.

The new MS and BS degrees in Biochemistry and

Biotechnology began in the fall semester 2004. There are already several students enrolled in both the undergraduate and graduate program. The Biochemistry and Biotechnology program is a joint venture between the department of Chemistry and Biochemistry and the Department of Biology.

It was nice to see several alums in Philadelphia at the ACS meeting. As Lol Barton always says, it is nice to meet alums anywhere and we would be happy to see more of you visit the department in the future to experience all the changes we have made in our facilities. Whether or not you do that I hope you are doing well and remember your alma mater. Successful alumni are our most precious assets so we certainly hope you are very successful.

Best wishes,

A handwritten signature in black ink that reads "Chris Spilling".

Editor's Message (Lawrence Barton)

Although the department and the University continue to see major changes, the activities of the Alumni Coordinator in the department have not changed. The editor of the UMSL CHEMIST finds much satisfaction and enjoyment in maintaining contact with former students, and especially in hearing of their many successes. It is particularly pleasing when you stop by. For example just before the Christmas holidays, **David E. Henton** (BS 1967), the star student in our first graduating class, showed up unexpectedly at the office. More about Dave may be found on pages 2 and 11. I received a very good response from the publication of Volume 21 of the UMSL CHEMIST. Now another year has passed and yet another chemistry graduate was honored with a Distinguished Alumni Award. In September, **Sandy Asher** (BA 1971), Professor of Chemistry at the University of Pittsburgh, was the fourth graduate of the department in four years to be so honored and the seventh to be honored since the Awards program was initiated in 1987.

The Distinguished Alumni Lecture Program, which is given annually in conjunction with the Departmental Awards function, is another event that we hope alumni will attend. Last May, **Jean Huhmann-Vincent** (BA 1992, Ph.D 1997) gave the lecture. As

we mention elsewhere, Jean is with Air Products and Chemicals, Inc., in Allentown, PA. In May 2005 **Rajiv Banavali** (Ph.D 1985) will be so honored. He is with Rohm and Haas in Philadelphia and did his degree with Bob Murray.

I have been in touch with several former faculty colleagues in addition to Drs. Winter, Garin, Larsen and Murray whom I see regularly. Ken Barnett was in town this summer with his family and we had lunch as we also did with Stuart and Marylyn Weidman, and also Eric and Judy Block. I bumped into Bill Welsh at the ACS meeting in Philadelphia, I am in e-mail contact with Charlie Armbruster and Lee Brammer and spent a long weekend with Jim Riehl last summer.

We are in the early stages of setting up an Alumni Advisory Board. This will be a combination of a conventional Alumni Association Chapter and our former Industrial Advisory Board. There are two of these Alumni Advisory Boards on the campus (Education and Optometry) and they have been very successful. For years the Alumni Association has wanted us to establish a chapter, and our Industrial Advisory Board, in its heyday, was quite useful to us. Ideally we would have two alumni representatives from the larger organizations and one from the smaller ones. By organizations we intend to include all aspects of employment in chemistry, so the group would be truly representative. Selection of the individuals would be based on their influence in their organization, and also on their loyalty to us and their willingness to help. There has not been much support in the past from you alumni for setting up an Alumni Association Chapter but I am hoping that this idea will work. I would appreciate any suggestions you may have. I have been discussing this with **Michael Finkes** (BS 1973, MS 1978) who, with me, is a member of the Board of Directors of the Alumni Association, and with **Barbara Willis-Brown** (BA 1984, DO 1988) who works with the School of Optometry on such matters.

I have written in this space before about how the St. Louis campus is under-funded relative to the other campuses in the University System. This year under the leadership of Chancellor George and with the help of some very good friends in the legislature, the budget numbers were tweaked somewhat and we received an additional \$2.7million in our annual appropriation. This does not go far in correcting the problem but plaudits are due to President Floyd for having the courage to do this, in the face of obvious pressures from the other campuses.

On the subject of funding, you will by now have received an appeal from me to make a contribution to our Scholarship Fund. I am uncomfortable asking for support and only did that once before during my term as chair when we set up the Robert W. Murray Lectureship in Chemistry. However, we have a unique opportunity at the moment since the campus has set aside funds to match donations to undergraduate scholarships. I hope none of you are offended by this solicitation, especially those of you who have recently made contributions. Chemistry alumni support the campus very well indeed and we are most appreciative of this.

As I always say at the end of my message, this might be an appropriate time to visit the campus again. It, and the department, continue 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.



Alumni Information

1960s

David E. Henton BS 1967 was in the department last November. Dave had been at Dow Chemical Co in Midland MI for 31 years. He recently retired and now consults in the areas of polymers, process, applications materials science and chemicals. Although maintaining a home in Midland he and his wife now live in Jackson WY. A feature on Dave appears later on.

Raymond F. Novak, BS 1968 continues as Director, Institute of Environmental Health Sciences, Director, Center for Molecular & Cellular Toxicology and Professor in the Department of Pharmacology at Wayne State University.

Lee Gori BS 1969 had been with Solvay Fluorides in St. Louis but the company began to outsource the production of fluorides to China and Lee was included in a layoff as a consequence of this action. He is an expert in ISO 9000 and quality. We spoke in December and he was looking for a position. He had been previously with Universal Match co. and also Emerson Electric. He fondly remembers the help he received from the faculty in the 1960s, especially from Charlie Armbruster.

1970s

John Kolb BS 1970 from whom we frequently hear and who has been very helpful to the department is enjoying retirement and



The faculty members who attended the farewell picnic for Gordon Anderson at Creve Coeur Park. From left Barton, Corey, Anderson, Wilking, H. Harris, Dupureur, Spilling, Demchenko, Stine, O'Brien and Chickos.

teaches part-time at Columbia College in Sonora, California. He describes it as the prettiest campus site he has yet seen. He also occasionally works part time at the Lawrence Livermore National Laboratory where he spent his entire career. He volunteers to teach science to children in the rural counties. He tells us that life is as busy as it was before retirement.

Sanford Asher BA 1971 received one of five Distinguished Alumni Awards at the Annual Founders' Day dinner on September 23. He also presented a seminar in the department on the previous day, "*Photonic Crystal Chemical Sensing Devices*". He received a Ph.D from Berkeley and did postdoctoral research at Harvard. He is Professor of Chemistry at the University of Pittsburg and has been very successful in his almost 25-year career there. Sandy received the *Chancellor's Distinguished Research Award* at the University of Pittsburgh in 1996, the *Bomen Michelson Award of the Coblenz Society* in 1998 and the American Chemical Society *Pittsburgh Award* in 2003. He was the UM-St. Louis Department of Chemistry's inaugural Distinguished Alumni Lecturer in 1988.

Harry W. Orf BS 1971 is featured later on page. 10. A colleague sent us some newspaper clippings about Harry's appointment at Scripps Florida. The heading in the South Florida Sun-Sentinel said *SCRIPPS SIGNS A LEADER. Administrator is decorated army veteran, scientist.* Prior to moving to Florida this summer, Harry had been living in Lexington Mass, with his wife, Karen, and 27-month-old son Nicholas. He has two grown children from his previous marriage, Darren 27, and Christina, 24. He received a UM-St. Louis Distinguished Alumni Award in 1994. When he was a student here he did research with Professors Block and Winter.

Dennis Wester BS 1971 visited the department twice this past year, once last Christmas with his wife Vickie and son Adam and once alone in September. Dennis lives and works in Richland WA and was recently appointed Adjunct Assistant Professor at Washington State University in the College of Pharmacy, Department of Pharmaceutical Sciences. He will be teaching the Radiopharmaceutical Chemistry portion of the Nuclear Medicine Certificate Program at the WSU-Tri-Cities branch campus.

W. Steve Tait BA 1972, after receiving his UM-St. Louis degree, worked for Tretolite Corp. in Webster Groves while attending Washington University in St. Louis. He earned his M.S. in Chemical Engineering in 1977 while developing a specialization in corrosion testing and corrosion inhibitor development. He then worked for S.C. Johnson & Son (Johnson Wax) for 22 years as their corrosion specialist in Racine Wisconsin. More details about Steve and his wife Sue Whitworth Tait (BA Physics 1972) later on in Feature Articles.

George Walther BA 1972 is Manager, Raw Materials at Anheuser-Busch Companies, Inc. in St. Louis. We have not heard much from him over the years.

Patricia J. Armbruster BS 1973 is a chemistry teacher at Lake Zurich High School in Lake Zurich, Ill.

Greg Wall BA 1974, MS 1882 was featured in the annual report

of the St. Louis Academy of Science. The article said "Life science and high technology giant Sigma-Aldrich is the Academy's new Science Speakers Program Sponsor with a generous grant of \$5,000 in honor of Greg Wall, Ph.D., long-time Speakers volunteer and Sigma Aldrich chemist". Greg was recently elected Councilor to the ACS by the St. Louis Local Section.

Daniel Breyfogle BS 1975 was in touch with us earlier on this year. He had been with the BUTCHER Company for many years but about a year ago he joined *Trans-Mate Products, Inc.* of North Billerica, MA as Technical Director. Trans-Mate is a small, privately held manufacturer of commercial car-wash and car-detailing products.



Sandy Asher, BA 1971 (left) along with the four other Distinguished Alumni Awardees, Alumni Association President Jackie McBrady (second left) and on the right Dr. Barbara Harbach and her husband Chancellor Tom George.

Andrew Ratermann BS 1976 visited us this year. We exchanged stories about getting stuck in Europe just after the 9/11 attack in the US. He and his wife Renee were in Eastern Europe with their newly adopted son Davis and had trouble getting back to the US. Andy is a Senior Development Chemist with GenCorp Automotive in Marion Indiana. Currently, he is far away from his chemistry roots and is responsible for evaluation of materials and test data and also for solving problems related to molding and identifying cost reductions.

Pauline L. Bellavance Ph.D. 1977 is enjoying "retirement" in Greenville South Carolina. She is actually teaching chemistry and physics to juniors and seniors at St. Joseph's High School in Greenville. She is also active the Western Carolina Section of the ACS and notes that it is not run nearly so well as the St. Louis Section. She is currently on the Executive Committee and also is the Career Services Chair. Husband Mike continues to work for CHEMGARD, Inc. and is enjoying it.

Theodore Nilges BS 1977 is someone from whom we had not heard for years but we notice an article in the Business Section of the Post Dispatch a couple of years ago. The headline was *Cooper Bussman chemist puts bacteria to award-winning use.* The article was about a process to remove grease by having

bacteria degrading oil in cleaning processes. It won an award from *Choose Excellence Environmental – Gateway Region*. Ted has been at Cooper Bussmann since 1994. He is in charge of the plating shop and the environmental work for the facility. He has 27 years of experience in the plating industry. Ted was, when we communicated, the President of the Local Section of the American Electroplating & Surface Finishing Society (AESF). He has been married 22 years and has a daughter who is attending SMSU. It is hard for him to believe that 27 years have passed since graduation. The last time the editor saw Ted was in the senior seminar class in 1977.



Steve Kolodziej (BA 1987, Ph.D 1993) and his wife Mary and Keith Stine at the Murray Lecture Banquet at the Glen Echo Country Club in March.

Dennis Delfert BS 1978 (also BA Biology) continues to enjoy reading the UMSL CHEMIST. He reminds us that he met his wife Liz (BA Biology 1977) in Dr. Armbruster's organic chemistry class. He went on to complete a Ph.D. in biochemistry at the University of Illinois Urbana-Champaign in 1984. He returned to St. Louis and entered a post-doc. program in Clinical Chemistry, which was associated with Wash. U. School of Medicine. Then it was off to Abbott Laboratories where he spent 15 years as a senior research scientist in diagnostic medicine. He and Liz left Abbott in 2001. Dennis taught medical physiology and nutrition at Logan College of Chiropractic for 2 years (2001 – 2003) and moved to Lewis and Clark Community College for the start of the 2003 school year. He is Associate Professor and teaches classes in anatomy and physiology and in nutrition. Liz is a reference librarian at the St. Louis County Library headquarters, specializing in science and medical reference.

Michael Ennis BS 1978 who was in Kalamazoo MI with UpJohn, then Pharmacia, now Pfizer, is back in St. Louis, living in Chesterfield just a few miles from where he grew up! He accepted the position with Pfizer in June 2003 and officially moved down here in August 2003. He is currently Director of Medicinal Chemistry at Pfizer. He is back with former classmate

Pete Kleine (BS 1978) but his other former classmate **Mark Pozzo** (BS 1978) is now in Kalamazoo. Mike is happy to be with Pfizer and rapidly adjusting to being back in St. Louis. His family is doing great -- his daughter loves her kindergarten class

and she's made lots of friends already from the neighborhood, soccer, and school.

1980s

Debora Bergstrom BS 1980 is Vice President, Operations for Dendritic NanoTechnologies, Inc. in Mount Mt. Pleasant, MI. She recently assisted Keith Stine in an inquiry about the company's products. Deb had been with Dow Corning and was our Distinguished Alumnae Lecturer in 2000. She and husband Wayne have three daughters. Christina works for Merck, Stephanie is a third year student at Northern Michigan and Allison is a freshman in high school.

Randy F. Johnston BS 1980 is now in his sixth year as Chairman of the Department of Chemistry and Physics at Union College in Jackson, Tennessee.

Charles Calvert BA 1981 is Senior Director of Procurement at Pfizer Inc. in New London Connecticut. He had been at Abbot Labs near Chicago.

Joan Twillman BA 1981 was featured on the cover of the 2003 Annual Report of the Academy of Science of St. Louis. Joan, who teaches chemistry at St. Charles west High school, received the Academy of Science of St. Louis Outstanding Science Teacher Award. Joan teaches a dual enrollment class in Science Research and also visits UM-St. Louis for a lot of science education events, but never seems to make it up to the Chemistry Department any more. For over 10 years, her passion has been extracurricular science. She has sponsored a Junior Academy of Science Chapter, Science Olympiad teams, *Envirothon* teams, robot teams, JSEHS kids, Science Fair kids, Missouri Junior Academy of Science kids, Spontaneous Challenge teams, a stream team, a WYSE team, Battle of the Burets teams- just whatever the kids wanted to do. One of the best things that happened to her, she tells us, was to get involved with the Junior Academy of Science of St. Louis. Several years ago the Academy offered to sponsor an activity that she suggested which is patterned after "Junkyard Wars". Each team of kids gets access to junk and has a few hours to build a device to do a particular job. This and a number of other activities led to her well-deserved award.

Dennis Parazak BS 1982 (Ph.D. 1996) who helped pay for his education by playing in a rock band during his doctoral studies here, continues at Hewlett Packard in San Diego. He now plays with, and I quote, "Bad Habit Blues Band-a musical group from San Diego consisting of fun-loving musicians with an appreciation for the blues legends as well as modern blues, swing, jump, R&B and funk". Dennis plays guitar and sings with the band.

Gregg Lumetta BS 1982 (Ph.D. 1987) helped organize a Symposium on Separations for the Fuel Cycle in the 21st Century, at the ACS in Anaheim last spring. He also presented three papers at the meeting. Greg works at the Pacific Northwest Laboratory in Richland WA.

Mary (Hayes) Warmbrodt BA 1982 is Manager, Polypropylene Catalysis for Sunoco Chemicals in Pittsburgh. She received a

Ph.D. degree from Washington University and did postdoctoral work at the University of Rochester. She was formerly with Aristech Chemical Co which was purchased by Sunoco in 2000.

Mark Vilmer BS 1983 works for Husky Corporation in Pacific MO. He resigned from the position as Director of the St. Louis City Health Department Laboratory earlier in the year.

Debbie Liebricht (Biggs) BS 1983 is in San Diego and is married with two children. We heard from Mark Vilmer that she was considering returning to St. Louis.

Barbara Willis Brown BA 1984 and Optometry OD 1988, was elected to the Missouri Optometric Foundation Board at its fall meeting. She will serve as the board secretary.

Colleen Jonsson BA 1983, also BA Biology 1983, had been on the faculty at New Mexico State University in Las Cruces, NM was named director of the Emerging Pathogens Research Department at the Southern Research institute in Birmingham, AL, in a news release dated Oct. 24 2004. We cite here from the release:

"As director, Dr. Jonsson will identify areas of potential growth for the program, as well as direct the daily scientific operations of the research staff. "We are fortunate to not only have such a highly respected scientist here, but to have her entire research team here as well," said Tina S. Rogers, Ph.D., vice president of Drug Development at Southern Research Institute. "Dr. Jonsson is involved in some of the most critical research being done today, and we are thrilled that she will be leading Southern Research Institute's efforts in these areas."

Prior to joining Southern Research Institute, Dr. Jonsson was an associate professor in the Department of Chemistry and Biochemistry at New Mexico State University in Las Cruces. She relocated her Hantavirus research program from New Mexico State to Southern Research Institute in 2003.

Dr. Jonsson is also an associate professor in the Department of Biochemistry and Molecular Genetics at the University of Alabama at Birmingham (UAB). Her experience includes a fellowship working in the Virology Division of the U.S. Army Medical Research Institute of Infectious Disease (USAMRIID). Since arriving at Southern Research, Dr. Jonsson has expanded her research to include work with the virus that causes Severe Acute Respiratory Syndrome (SARS), Avian influenza, and a number of other emerging infectious diseases.

She is a member of the Scientific Steering Committee for the Military Infectious Diseases Research Program Science and Technology for Hantaviruses at USAMRIID, and the National Institutes of Health Biodefense, Vaccine Study section; the Biodefense, Bioterrorism and Emerging Infectious Diseases Study Section; and the RCMI Study Section. She is a Biochemistry and Molecular Biology Ad Hoc Reviewer, and serves on the Graduate Fellowship Panel of the National Science Foundation.

Dr. Jonsson earned dual Bachelor of Arts degrees in chemistry and biology from the University of Missouri-St. Louis, and holds a Doctorate degree in biochemistry from Purdue University in West Lafayette, Indiana. Her post-doctorate research was conducted at the UMDNJ Robert Wood Johnson Medical School

in Piscataway, NJ. She has authored or contributed to more than 25 publications and reviews.

Dawn L. Shiang BA 1983 (Ph.D. 1988) who has been with Dow Chemical Co in Midland MI has a new role with the company as the Global Director for Customer Technology Service Center for Plastics in Horgen Switzerland. She will have people reporting to her from Tarragona, Spain; Terneuzen, Netherlands; and Freeport, Texas. The Shiangs were fortunate that their current nanny will be there with them for at least two years. They are living in the city of Au in a very decent size house by European standards with a view of Lake Zurich and the Alps. The two boys will be attending the Zurich International school



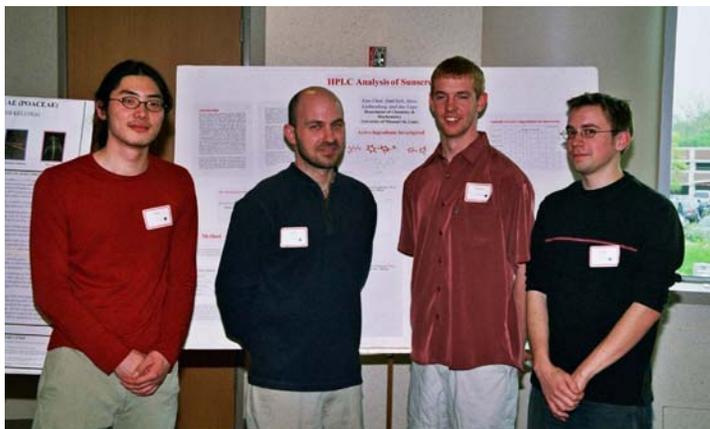
Colleagues and former students at the ACS St. Louis Section Women's Luncheon. From top left Katherine M. Block BS 2001, Professor Dupureur, Professor Wilking BS 1985, Grainne Biddecombe MS 2004, Lisa French BA 2003 and Professor Corey

William R. Shiang BA 1984 (PhD 1989) also has a new role with Dow in Switzerland new role in Switzerland. He is Operations representative to DAS Switzerland (DAS CH) and will be accountable for managing DAS CH based supply contracts. This role will be based in Horgen, Switzerland. He is also accountable for contract manufacturing in China with a focus on active manufacturing contractors, intermediate suppliers and developing new contacts in China manufacturing. Finally, Bill will retain his previous job as a Global Supply Chain Development Leader.

Dr. Rajiv M. Banavali Ph.D. 1985 will present the 18th Annual Distinguished Alumni Lecture in May, 2005. Rajiv received his Ph.D degree here in 1985 under the direction of Bob Murray. He was the last postdoctoral fellow to work with Professor Paul Bartlett at Texas Christian University. He began his career with Rohm and Haas in Houston in 1987 as a process chemist. In 1992 he became the Manager of the R&D for Primene amines. In 2000, he took on the additional responsibilities for the Dyes and Markers businesses and moved to Philadelphia with the company in 2001. Following year he became the global R&D director for the Inorganic Specialties business in addition to his previous responsibilities. In 2004, he was named the Global research manager for Organic Specialties and Ion Exchange resin catalysis. Rajiv has been awarded 10 patents and is an author of over 25

publications. Rajiv met his wife Marysusan when she was a student here and taking Chemistry classes. Marysusan is a graduate of the School of Education at UM-St. Louis. We met Rajiv in Philadelphia at the ACS meeting. We are delighted to announce that he will be the 18th Annual Distinguished Alumni Lecturer on May 2, 2005.

Charles Jeffries, MS 1986, Ph.D. 2003 continues to work for Laird Corporation in earth City, MO. He was there when he completed his doctoral degree with Bill Welsh. The company, British-owned, makes metallized fabrics.



Chemistry participants at the UMSL Undergraduate Research Symposium L to R, Eun Choi, Jim Clark, Steve Lichtenberg and Joe Lupo, all now BS graduates.

William P. Schmitt BA 1987 (and BA Physics) was in the department just before the holidays. He holds a Ph.D. degree in nuclear physics from M.I.T. and did a postdoc at the Indiana University Cyclotron and the MIT Lab for Nuclear Science. From 1998 - 2002 he was Senior Quality Assurance Engineer and Quality Assurance Manager with Inktomi Corporation in Needham, Massachusetts. Then he returned to Missouri and was a Senior Software Engineer from 2002 – 2004 at bioMerieux (Vitek Systems), in Hazelwood. Since last year he has been back in the east as a Senior Member Technical Staff with Draper Labs in Cambridge, Mass.

Michael Merriman BS 1987 who is involved in Field Applications with Perkin Elmer Biosystems in Hellertown PA was at the Alumni Hour at the ACS meeting in Philadelphia last fall.

Rave Kumar Laxman Ph.D. 1987 is Director for advanced materials for the technical marketing group of ATM Advanced Materials, a semi-conductor materials company head-quartered in Danbury CT. Ravi is located in San Jose. He had been previously with Novellus Systems in San Jose and also with Air Products in San Diego for 9 years. He and his wife have a son and daughter 16 and 17 years respectively.

Thomas P. Simpson BA 1987, we believe is a Forensic Scientist at the Western Forensic Laboratory for the State of Virginia in Roanoke. We believe that he and his wife went to study Forensic science at the University of Alabama-Birmingham.

John G. Boylan Ph.D. 1988 has been at Boston College since 1992 managing the NMR Lab. Several years ago, he started teaching a couple of graduate courses in Chemistry, Principles and Applications of NMR and Macromolecular Structure Determination. He also teaches in the Philosophy department (Perspectives IV: New Beginnings in Math and Science, which is a year-long double credit course for which the students receive 6 credits in Philosophy, 3 in Science, and 3 in Math) and in the Theology department (Capstone Seminar: Decisions for Life, which is for seniors only and is designed to help them prepare for the decisions they will soon make around careers, relationships, and communities. The course is actually offered through the School of A&S but his appointment is in Theology.) He and his wife Rebecca live in a historic part of the Dorchester community in Boston. They bought an old (ca. 1875) home there last year and are restoring/renovating it. Rebecca is an architect specializing in academic labs and medical centers. They met four years ago at a women's shelter in Boston where they have volunteered, worked, and served on the Board of Directors for many years. They have a wonderful sailboat and spend as much time living on it as they can in the summer. They keep it in Provincetown, at the very tip of Cape Cod. John coached the BC offshore sailing team for several years but has given that up. He also took up crew a few years ago and has competed many of the regional and national regattas in the Northeast

Gary Wester BA 1988 (MS 1992) is still with Pfizer in Kansas City. We hear from him occasionally as he investigates career moves. His daughter Melanie was to be married in St. Charles on November 13.

M. Meisinger BA 1989 (MS 1992) was in touch with us last spring. He was considering a career move to teaching.

1990s

Siddarth Kamath MS 1990 is living in Tampa FL. with his wife Sharmila (MS Business 1993), son Neil, 10 years and daughter Rachna, 6 years old. He moved to Tampa in 2000, and started working in the University of South Florida's School of Medicine. He works in the department of Neurology doing "stem cell" work to repair neurodegenerative disease under the leadership of world-renowned neuroscientist Dr. Sanchez-Ramos. This work has led to one patent and several papers in recent years. In January 2004, he was granted a faculty appointment as Associate in Neurology in the Department of Neurology.

Todd Boehlow BS 1991, Ph.D. 1997 with Chris Spilling is still at Pfizer in process development and doing very well. He attended his first Organic Reactions and Processes Gordon conference this past summer and is a regular racquet ball partner for Jim Chickos

Sarah Hosseini Ph.D. 1991 lives in Grafton WI and is a Lecturer at the University of Wisconsin-Whitewater and an Adjunct Assistant Professor at the Milwaukee School of Engineering.

R. Ann Vu BA 1992 is Director, Global Quality, at Bausch & Lomb in Rochester, NY. Ann has been with Bausch & Lomb for four years, and recently moved from Quality Operations to Global Quality. She was formerly with Steris Inc. in St. Louis.

Kathleen M. (Riordan) Talkington BA 1992 is currently a stay-at-home Mom.

Steve Fallis Ph.D. 1992 and the Editor spent some time together at the ACS meeting in Anaheim. Steve is Branch Head of Materials Synthesis at the Naval Air Weapons Station China Lake. This is where the Navy and Marine Corps have developed or tested nearly every significant airborne weapon system in the past five decades. China Lake is located 150 miles northeast of Los Angeles on the western edge of California's Mojave Desert. Steve had promised to send us some info on his wife **Kathleen Fallis** Ph.D. 1993, who had taken a leave to serve in the military reserve but we have not heard anything yet...

Kevin Koeller Ph.D. 1994 with Chris Spilling now is back in the department working as Research Asst Prof. with Jim Bashkin and NanoVir. Kevin did a postdoc at the University of Nebraska and was with Pfizer Inc prior to returning to UMSL.

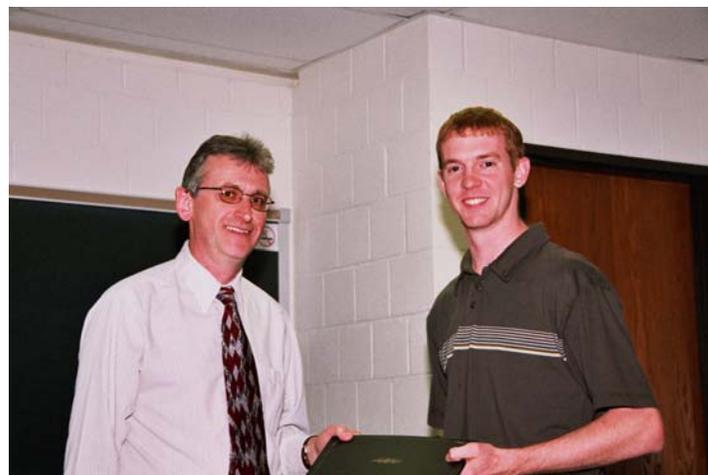
Jean Huhmann-Vincent BA 1992 (Ph.D. 1996) presented the 2004 Distinguished Alumni Lecture in May. Since 1999 she has been at *Air Products and Chemicals, Inc.*, working on a wide range of projects, including the pilot scale production of oxygen adsorbents, new molecule synthesis for semiconductor applications, and new product development for polyurethane foam additives. Jean has been awarded 2 patents and is an author on over 20 journal publications. She lives in Bethlehem, PA with her husband John and their son Derrick.

Timothy Desmond BS 1993, whom we often see at Blues Hockey games but don't get the chance to visit with, is working as an analyst for Missouri American Water Co. since Sept. 2001. Before that he worked for the Sauget Sanitary District in Sauget from 1994 to 2001 He has done much water chemistry, mostly GC and GC/MS analysis of water for disinfection byproducts, such as trihalomethanes, volatile organics and HAAs. His wife is a Speech-Language Pathologist at the Meramec Valley School District in Pacific, MO (just past Six Flags). They have been married almost 6 years and live Fenton, MO with their cat. He sent greeting to his former professors who influenced his time here including Drs. Corey, Hal Harris, Winter and, I quote "Dr. Armbruster (my advisor and a very good man!)" and Dr. Jim Riehl.

Michael Groaning BA 1995 (MS 1996 with Chris Spilling), received a Ph.D. in Chemistry from Colorado State University in 2000, and was a Postdoctoral fellow at the Swiss Federal Institute of Technology from 2001-2002. He now lives in Boulder, Colorado and works for Roche Colorado Corporation as a Process Research Chemist. He is also a part-time instructor at Front Range Community College. Mike leads a very active life running, swimming, cycling, competing in triathlons and playing in goal on a local ice hockey team. He is also very active in trying to raise funds for American Pediatric Heart Fund is a nonprofit organization that was started by former UMSL chemistry major Brandi Lueken in 2001. The goal of this organization is to bring top-quality comprehensive cardiac treatment, care and services to uninsured and underinsured children by providing financial support. Information is available at <http://www.aphfund.org/>

Hong Fang Ph.D. 1995 is a Senior Computational Scientist with the Bioinformatics Division of Z-Tech Corporation at the

National Center for Toxicological Research/Food and Drug Administration facility in Jefferson, Arkansas. She received her degree working with Dr. Barton and after several years of working as a forensic scientist, she joined the US FDA's National Center for Toxicological Research (NCTR) in 1997. Dr. Fang's initial years at NCTR involved developing, validating and conducting *in vitro* assays to measure ligand binding to the estrogen and androgen nuclear receptors and developing SAR and QSAR models for ligand binding and rodent liver carcinogenicity, and an associated online database. More recently, she has been focusing on the integration of computational chemistry and bioinformatics tools for toxicological data mining, particularly on the mining and biological interpretation of microarray data. Dr. Fang is part of a team developing a toxicogenomics software system that integrates experimental microarray, proteomics, metabonomics and toxicology data with gene, protein and pathway data from public available databases. She was a keynote speaker on Predictive Toxicology in Drug Development in Amsterdam in end of September.



Steve Lichtenberg receives the Alan F. Berndt Award from Dr. Anderson at the Departmental Awards Function.

Cecilia Marzabadi Ph.D. 1995 with Chris Spilling is Claire Luce Booth Assistant Professor at Seton Hall University, up for tenure and promotion this year and we wish her luck. She will be presenting a seminar at UMSL on March 28th 2005

Anne (Cafferty) Turnbough Ph.D. 1998 lives in Houston with her two children and husband Joe. Her job as Regulatory Manager with Novozymes has allowed her to remain in Houston in a remote position as opposed to transferring to the Virginia corporate office. She travels a lot internationally, which of course is great when she can drop by home in Ireland, but not so good when she is away from the kids.

Sean D. Dingman BS 1994 moved to Milwaukee in January 2004, to take up his new position as Product Manager, for Organometallics, with Aldrich Chemicals.

Michael Pasiaka BS 1995 has been working in Puerto Rico since last May. He had been in a temp position at Mallinckrodt in St. Louis but it expired. He is now in San German, Puerto Rico with *Cordis*, a subsidiary of Johnson and Johnson, working on the Cypher Stent. It's a coated heart stent with Rapamycin, an anti-

restenosis drug, embedded in the coating matrix.

Siu Wa Au-Yeung BA 1996 keeps in touch with us at Christmas time. He still lives in Massachusetts and now works for a small R & D company located in Norwood. He recently got engaged and will be married this coming summer.

Eric Bruton BS 1997, Ph.D. 2003 with Lee Brammer, is a Senior Research Scientist at Cross Link in St. Louis. This is a high tech company and his projects have included making low cost photovoltaics from organic materials and also chemiluminescent materials. Eric stops by the lab every now and then.

Yanina Levchinsky BS 1997 just learned that she had been promoted to Process Scientist III (from II) at *Regeneron Pharmaceuticals* in Rensselaer, NY. Husband **Brian Grimond** (Ph.D. 1999) is doing well too, still working on MRI contrasting agents but moving to the nano-world next year at General Electric in Schenectady, NY. Drs Corey and Wilking visited them following the Gordon Conference last July. Yana and Brian were going to Scotland for the holidays in December.

Gary Nichols BA 1997 completed his Ph.D. degree at UM-St. Louis in 2002 with Jim Chickos. He now is a research chemist at Mallinckrodt/Tyco Healthcare in St. Louis. Gary was one of the first two recipients of a Charles W. Armbruster Scholarship to receive a degree from the department of chemistry. The other was **Lisa Meyerkord** BS 1997.

Hossein Shabany Ph.D. 1998 with Chris Spilling was "down sized" by Monsanto and is now working at Pfizer (temporary) with **Pete Klein** BS 1978, MS 1982, and also with Jim Bashkin here.

Juan C. Mareque-Rivas Ph.D. 1999 attended the UM-St. Louis Alumni Hour at the ACS meeting in Philadelphia. He is on the faculty at the University of Edinburgh and presented a paper at the meeting. He appears to be doing well having published 6 papers in Royal Society of Chemistry journals from his work there.



The new doctoral students that joined the department in fall 2004.

Paul McQuade Ph.D. 2002, who completed his doctoral work

with Dr. Barton, did postdoctoral research at Washington University in St. Louis with Mike Welch prior to joining the Merck Co in Philadelphia in the summer of 2004. He and his wife Jennifer vacationed in Scotland for ten days in the fall.

Martin E. Hayes BS 1999 completed his Ph.D. degree in May from MIT and is working now as a medicinal chemist at Abbott Bioresearch Center, which was formerly part of BASF Pharma in Worcester, MA prior to being bought out by Abbott Labs. He tells us that he is in a very good position with no direct reports and only the responsibility of making compounds. His wife Antoinette and he are doing very well having moved into a lovely three-story condo in a renovated church. Toni (BS Biology 2000) is going to school full-time now at Northeastern. She's almost halfway through a toxicology Master's program and trying to couple that with an MA in Pharmacology as well, though the course offerings might make that tough to accomplish.

Ali Kasiri Ph.D. 1998 lives in Raleigh, NC and works at BASF Research and Development Center in the Agricultural Products Center in Research Triangle Park, North Carolina. He does methods development using LCMS.

Jijumon Chelliserrykattil, MS 1999 worked in Dr. D'Souza's lab for a while, before moving UT-Austin in 1999. He was accompanied by his wife, **Manjula Rajendran** MS 1999 who was working with Dr. Welsh at that time. He completed a Ph.D. with Prof. Andrew Ellington at UT-Austin, where he worked on the 'directed evolution' of enzymes. Some of his work was published in *Nature Biotechnology*. He tells us: "The training that I received from UMSL as an organic chemist, especially the cumulative exams and organic seminars, helped me immensely in building my career. In this regard, I would like to thank you, and all the Profs who taught me during my stay at UMSL. On a personal level, we are grateful to Dr. Nigam Rath and his family for their moral support". Manjula also received her Ph.D. degree with Ellington and they moved to Stanford University, Jijumon to do a postdoc with Prof. Eric Kool and Manjula with Prof. Daniel Herschlag. Since then we heard that Jijumon's graduate work was nominated as one of the finalists for the 'Inventor of the year award' in the field of science and technology. This competition is conducted by the US National Inventors Hall of Fame.

Yiahua Hamada Ph.D. 1999 was at the ACS meeting with his family last year. He continues to teach chemistry at Wayne State College in Wayne, Nebraska where he recently received \$ 5,000 in grant money from EPSCor/NSF to carry out research with undergraduates. He and his wife have two children.

W. Michael Johnson BS Jan 1999 who had been with *Wyeth Pharma* in St. Louis site is now with *Centocor Biologics* (a division of *Johnson & Johnson*) which took over *Wyeth*. He is at the same location, on Natural Bridge Road and he tells me that **Jim Gray** BS 1998 also accepted a position with Centocor.

Elizabeth Amin BA 1997 (Ph.D. 2002) with Bill Welsh, joined the UM-St. Louis chemistry program after completing a Ph.D. degree in German from Washington University in St. Louis. She went to work for *Triplos* in St. Louis as an Application Scientist. She continued to work for them when she and her husband were transferred to San Diego. Quite recently she accepted a Visiting Assistant Professor position in the Chemistry Department at the

University of Minnesota. She will be collaborating with members of the University of Minnesota Computational Chemistry Group, on metal-binding proteins and anti-angiogenesis drugs.

2000s

Aaron Burns (BS 2000) who did some graduate work at UC-Berkeley, most recently has been working in medicinal chemistry and living in New York. He is married and he and his wife have a son. We heard from Hal Harris that Aaron was going to continue his Ph.D. work at the University of Minnesota. This is where his wife is from and we look forward to hearing from him.

Joe Ochesky BA 2000 (MS 2003), we understand from Professor Spilling, has a job in Philadelphia with PTI Research making fluorescent dyes for biological staining.

Paul Webb Ph.D. 2000, who completed his thesis research with Jim Chickos, has been working at the United States Department of Agriculture for three years. After graduation from UMSL in Jan 2000, he was hired by Southwestern Illinois College in Belleville, IL as an adjunct chemistry professor and taught there for eighteen months before accepting the USDA position.

Melissa Stuchell BS 2000 went on to graduate school at the University of Utah. She is a doctoral student in the combined Molecular Biology and Biological Chemistry program. Melissa joined the research group of Professor Wesley Sundquist to study HIV budding and they have already published two articles on their joint work, one in the *Journal of Biological Chemistry* and the other in *Cell*.

Katherine M. Block BS 2001 left Pfizer's Pharmaceutical R&D department in July (she had been there about 2 years) to go the University of Arizona. She is doing a Ph.D degree in the Medicinal Chemistry department. When we heard from her she was working on several research rotations to determine who her thesis adviser will be.

Paul Johnson BA 2001 received a MS degree working with Professor Dupureur and got a position at Pfizer Inc. in St. Louis.

Swati Puri Ph.D. 2001 is an Applications Scientist at *Accelrys* in San Diego. She was at the ACS meeting in Anaheim, gave a paper and worked the Accelrys booth in the exposition.

Edyta Schranz MS 2001 is now in Arkadelphia Arkansas with her husband Ingo who just took an Assistant Professor position at Henderson State University in Arkadelphia. Ingo had been doing postdoctoral research with Ken Caulton at Indiana University.

Shiyue Fang Ph.D. 2002 went on to do postdoctoral research at Purdue University (2002 – 2004) and recently joined the faculty of the Chemistry Department at Michigan Technological University, as Assistant Professor. At Purdue he worked with Donald Bergstrom in the department of Medicinal chemistry and Molecular Pharmacology. He became familiar with nucleic acids chemistry, and published 3 papers and one book chapter in that area, and also some work which was to be patented so publication was delayed.

Lin Yong Mao Ph.D. 2002 did a masters degree in chemoinformatics at IUPUI prior to accepting a postdoctoral fellowship at the Pacific Northwest Laboratory in Richland, WA. Most recently he took a position as a Bioinformatics Programmer position at the Medical University of South Carolina, in Charleston, SC. He is working on microarray data analysis for human cancer cells and yeast and developing models to simulate the virus-host infection process.

Mesfin Janka Ph.D. 2003 continues to do postdoctoral research with Richard Eisenberg at the University of Rochester. They recently published a JACS communication so the work appears to be going well. Mesfin was at the ACS meeting in Philadelphia and attended the ACS Alumni Hour.

Kayla Gincherman BA 2003 is in the second year of Medical School at Washington University and doing very well. She got a NIH grant to do research in the summer 2004.

Padma Nair Ph.D. 2003, who did her doctoral research with Gordon Anderson, was busy with her new baby boy Pranav when we heard from her in January 2004. She and husband Anil, a former postdoc with Bill Welsh, had just returned from a trip to their home country India.



ACS Alumni Hour in Philadelphia in August 2004. Left to right Spilling, Barton, Janka, Mareque-Rivas and Stockland.

Rehan Sharief BA 2003 works at the Eli Lilly and Company at the Tippecanoe Lab, specifically the Quality Control Labs as an Associate Chemist. He is currently doing an MS degree at IUPUI in Indianapolis. He has been married for three years and he and his wife Mariam have two children, a son Zackariya age two and a daughter who is 5 months old.

Anchalee Thanavaro Ph.D. is working at *Steris Inc.* in St. Louis under **Herb Kaiser** (Ph.D. 1995). She is married to **Kevin A. Trankler** (BS 1998, Ph.D. 2004) who did a postdoc with Janet Wilking prior to taking his current position at *Chemir-Polytech*.

Grainne Biddlecombe MS 2004 was working with Dr. Barton but decided to stop at the MS level and take a position at Washington University Medical School working in the Mike

Welch group. She is enjoying her work which involves radio labeling peptides with Y^{86} and Cu^{64} . She is also doing mass spectrometry and has just been on a course to Milford, Mass, prior to the Christmas holiday which she taking with her folks in Dublin, Ireland.

Michael Petetit BS 2005 is working at STERIS in St. Louis.

ACS Alumni Hour

At the ACS Meeting in Philadelphia in August we participated in the ACS Alumni Hour. Those in attendance were Juan Mareque-Rivas Ph.D. 1999, Mesfin Janka Ph.D. 2003, Robert Stockland, Ph.D. 1999, Dennis Wester BS 1971, Michael Merriman BS 1987 and former 1980s Murray postdoc Shirish Raja along with Drs H. Harris, Spilling and Barton.

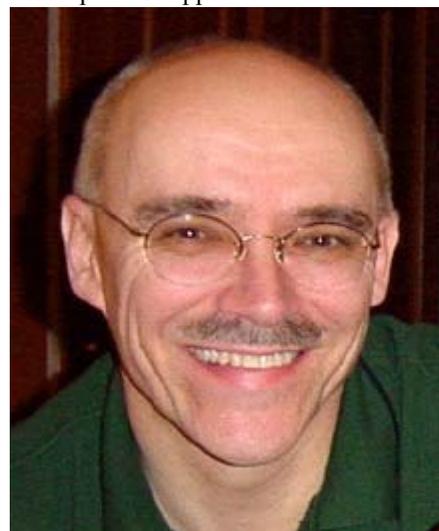
Feature Articles

Harry W. Orf of Massachusetts General Hospital and Harvard Medical School Named Vice President of Scientific Operations at Scripps Florida

Much of the following was taken from a press release issued on March 25, 2004. Scripps Research Institute President Richard A. Lerner and Florida Governor Jeb Bush announced the appointment of Harry W. Orf, Ph.D., as Vice President of Scientific Operations for Scripps Florida, the institute's new facilities in Palm Beach County.

Orf will oversee the administration and management of the scientific services that will support Scripps Florida's biomedical research, drug discovery, and technology development operations, first in an existing facility on the Florida Atlantic University campus in Boca Raton, then in newly built laboratories on the FAU Jupiter campus, and finally in the 364,000-square foot, state-of-the-art biomedical research complex to be constructed in northwest Palm Beach County, scheduled to open in late 2006.

"Harry's exceptional qualifications make him the perfect choice to head up the Scripps Florida facilities and services," said Governor



Harry W. Orf BS 1971

Bush. "His diverse background and training in molecular biology as well as his leadership in the U.S. military will be instrumental in leading a team that will propel Scripps Florida to the forefront of life-saving medical breakthroughs."

"Orf, 54, a native of St. Louis, Missouri, holds a Bachelor of Science degree in chemistry, *summa cum laude*, from the University of Missouri-St. Louis and Masters and Doctoral

degrees in chemistry from Harvard University, where he was also a Research Fellow in chemistry. He is also a 1991 graduate of the U.S. Army's Command and General Staff College.

Orf has served for the past 21 years as Director of the Molecular Biology Laboratories at Massachusetts General Hospital in Boston, the largest research and teaching hospital affiliated with Harvard Medical School. He is also a Principal Associate in Genetics at the medical school. From 1977 to 1980, he was Dean of Mather House, Harvard College, and from 1978 to 1983, lecturer on chemistry and biochemistry at the university.

His executive management and administrative experience includes past memberships on the boards of directors of several biotechnology companies, including Gallia, Inc. and Cambridge Molecular Structures, Inc. He is a founder and principal of Cambridge Laboratory Consultants, Inc., and Nexus Cambridge Lexington LLC, and co-founder and board member of The Science Hotel at Cambridge, Massachusetts, a biotechnology development incubator.

Orf also has a distinguished career in the U.S. Army Reserves where he currently holds the rank of colonel with the 804th Medical Brigade. He spent the past year on active duty in Kuwait and Iraq with his unit and, upon returning home in February, was awarded the Bronze Star medal for distinguished service during Operation Iraqi Freedom.

In addition to several academic honors, Orf has served his community in the areas of education, health and safety. In 1996, he was awarded the Partnership Award for Outstanding Contribution to Education by the Massachusetts General Hospital-Timilty Middle School Partnership, and the following year received the American Hero Award from the U.S. Department of Education and City of Boston for his work with the Boston public schools. For the past 16 years, he has been chairman of the Biosafety Committee in Lexington, where he resides. He has also served as special consultant to the Boards of Health of other Massachusetts towns where biotechnology companies operate."

W. Steven (BA 1972) and Sue Whitworth Tait (BA Physics 1972) run a small startup company in Madison WI.

Steve and Sue own a small research laboratory at the Innovation Center of the University Research Park in Madison, Wisconsin. The company is called Pair 0 Docs Professionals L.L.C. since they are two Ph.D.'s. Pair 0 Docs Professionals specializes in anti-corrosion technology, specifically electrochemical corrosion research and testing. Steve literally wrote the book on electrochemical corrosion testing and copies of his book are in corporate and government labs on every continent except Antarctica. Most of their clients are Fortune 500 companies that are concerned about corrosion-related problems either in their packaging or in their formulas. Sue and Steve also conduct short courses both on-site in clients' facilities or right here in Madison, WI.

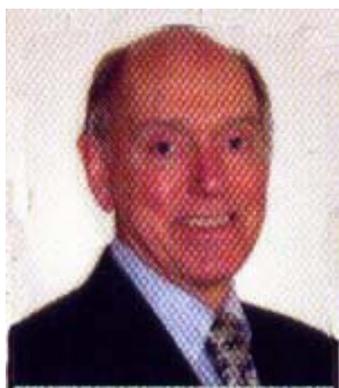
During the time he worked for Johnson's wax, Steve continued

his schooling at the University of Wisconsin - Milwaukee earning a Ph.D. in Materials Engineering in 1988. Throughout his various degrees and professional positions, he maintained his research into corrosion-related problems. He is the author of the monthly column Corrosion Corner in the Spray Technology Journal. He has also authored or presented over 80 papers, is a peer-reviewer for several professional journals, and holds numerous patents. He is certified by the National Association of Corrosion Engineers as one of only 18 Corrosion Inhibitor Specialists in the world.

Steve was offered an early retirement package (at age 50) by Johnson Wax in 2000 so Sue and Steve moved to Madison, WI to be a part of the Innovation Center located in the University Research Park. Pair 0 Docs Professionals developed the Gen 4 Multi-Cell used in electrochemical testing and licensed it to GreatGlas Inc. of Wilmington, DE. The Gen 4 Multi-Cell is used in both North America and Europe by various laboratories. Their short courses cover the various aspects of corrosion technology and have a very high rate of participant return. Steve and Sue have two daughters, Rebecca and Laura, both graduates of the University of Wisconsin.

David E. Henton, the star student in our very first graduating class visited the department last fall for the first time since he gave the Distinguished Alumni Lecture on campus in 1989

Dave retired from The Dow Chemical Company January 1, 2004, after 31 years of service, and started his own consulting business in the areas of polymers, applications, material science and manufacturing. He became a Wyoming resident upon retirement and has a home in Jackson, WY where he and wife Barbara enjoy the mountains, elk hunting and mountain climbing. They still have a house in Midland, Michigan and spent their free time this summer building a house on their northern Michigan property.



David Henton, BS 1967

They have frontage on one of Michigan's blue ribbon trout streams and they plan to wet a fly there as often as they can. Barbara and Dave have been married for 37 years and have two children, Sheryl and Michael. Sheryl is a grade school teacher in Saginaw, MI and Michael has his own Internet/web hosting business in Traverse City, MI.

Dave has fond memories of UMSL and remembers (we quote) "the early, modest beginning in the old Country Club building with makeshift laboratories in the basement. The quality of the teaching was there from the start with Dr. Armbruster's leadership and guidance. Many of us owe UMSL, the entire faculty and especially Dr. Armbruster a debt of gratitude for the role each played in our development and ultimate success. As part of the first graduating class of UMSL, I was apprehensive about my ability to compete in a major university graduate program with other students coming from the big name, well established chemistry departments. I was amazed when I tested out of all of

the first year graduate chemistry classes and eventually received the H.P. Cady Award as the outstanding first year graduate student in chemistry at the University of Kansas. The background and education we received at UMSL was, and still is, first class."

"At The Dow Chemical Company, I have met many other graduates of UMSL and all are doing well. My brother Dan Henton (BS 1975) graduated from UMSL and then received his Ph.D. from Ohio State and is currently working on specialty chemicals and pharmaceuticals in Midland, Michigan. My son, Michael attended UMSL, taking chemistry classes and graduating with a degree in business. Michael was the third generation Henton to graduate from UMSL. My mother received her Masters Degree from UMSL while she was teaching at inner city schools in St. Louis. I would like to keep in touch with folks, so if anyone is traveling to northern Michigan or Jackson, Wyoming, please let me know."

Dave was recognized for his contributions at the Dow Company. He received the ACS Midland Section Award in 1999 and in the summer of 2004 he received the ACS 2004 Regional Industrial Innovation Award. Again we quote from the citation: "Dave's numerous contributions to the field of polymer chemistry are widely acknowledged both within the Dow Chemical Company as well as outside of the company. Dave's role as an inventor, an implementer, an advisor, and a mentor make him one of the top "go to" scientists within the company."

Newcomers to the Department

Michelle Haley joined the department as Secretary in January replacing Dena Woods who took a position elsewhere on campus. Michelle had been with the St. Louis Public Schools prior to joining the department.

Dr. Rensheng Luo joined the department at the end of 2004 as



Dr. Rensheng Luo

Director of the Nuclear Magnetic Resonance Laboratory, replacing Dr. Janet Wilking. He received his Ph.D. degree from the Chinese Academy of Sciences and was a Postdoctoral Fellow at the University of Illinois at Champaign-Urbana with Dr. Jiri Jonas and also at the St Jude Children's Research Hospital in Memphis, prior to joining the UMSL. St. Louis faculty as Research Assistant Professor. Dr. Luo's

areas of personal interest are the study of 3D structure, conformational dynamics and mobility of biomacromolecules and organometallic complexes, and ligand binding and molecular interactions in solution using multidimensional NMR methods.

Michael R. Nichols joined the faculty in August to fill the biochemistry slot vacated when Don Becker left the department in 2003. Dr. Nichols received his BS degree from Lindenwood College and in fact visited the department as a prospective graduate student prior to deciding to go to Purdue University. He received his Ph.D. degree from Purdue in 1999 and spent five years at the Mayo Clinic in Jacksonville FL, in the Department of Neurosciences, as a postdoc, then a senior postdoc and finally as a non-tenure track assistant professor studying protein aggregates as related to neurological degeneration.

Angela Thomas joined the department in February 2004 as the Administrative Assistant replacing Charmaine Henson. Prior to taking over the senior slot in the department office Angela had extensive experience working with budgets, and she worked for some time at Monsanto in their Human Resources department.

Mark Regina joined the department as a electronics technician. He replaced Gordon Kerschmann who retired from the department after 14 years. Mark has held similar positions at Tufts University and the University of New Hampshire. He is married to our former student **Karen L. Jansen** BS 1993. They met at Tufts University in Medford Massachusetts where Karen was completing her MS degree. They were blessed with a son Joseph in December who joins two sisters Alison and Maggie.

Chung F. Wong filled the computational chemistry position in August 2004. He received his B.Sc. (Hons.) degree from the Chinese University of Hong Kong and his Ph.D. degree from the University of Chicago. He did his postdoctoral work at the University of Houston and held academic and industrial positions at the University of Houston, Mount Sinai School of Medicine, SUGEN, Inc., University of California-San Diego, and the Howard Hughes Medical Institute. His work currently focuses on protein kinases and phosphatases



Dr. Chung Wong

Graduates, Dec. 2003 through Aug. 2004

DECEMBER 2003

Theresa D. Kollfrath BA
Erich Topp BA
Janet Xue, BA

Elizabeth Hansen, Ph.D.
Angie Schmitt MS

MAY 2004

James Anthony Clark, BS
Paul Johnson MS
Joseph Anthony Lupo, BS
Jyothi Swamy Ph.D

Amie Beerman MS
Steve Albert Lichtenberg, BS
Xiong Peng MS

AUGUST 2004

Kimberly Goodman, BA
Claire Brook Ph.D

Grainne Biddlecombe, MS
John Sweringen, Ph.D

DECEMBER 2004

Henry Adiele, BA
Jason Butler Lindley, BS
Lisa French, MS
Shobha Rani Malgireddy MS
Ngamjit Praingam MS
Sujittra Srisung MS
Viktoriya Sedelkova, MS

Robert Barron, BA
Eun Woo Choi, BS
Erik R. Hofgren MS
Michael Justin Petetit, BS
Khan Tien Nguyen BA
Aaron Young BA

The Faculty

Lawrence Barton is concerned that the size of his research group has dropped to an all-time low but he continues to be very busy writing and presenting papers, teaching and being involved in campus governance. This year he presented papers at the IXth Boron in the Americas Conference in San Marcos Texas and also at Euroboron-3 in Prague in the Czech Republic. At the former he was presented with the 2004 Boron in the Americas Award for "Distinguished Achievements in Boron Science" and in conjunction with the Prague conference he and his wife Pat spent a couple of days as tourists in the beautiful city. He has also been invited to present a Keynote Lecture at the 12th International Meeting on Boron Chemistry (IMEBORON-12) to be held in Sendai, Japan, from September 11 to September 15, 2005. In the fall 2004 semester he has been quite busy teaching two undergraduate courses in inorganic chemistry. He also serves on the Faculty Senate and several campus-wide committees including the Senate Steering committee and others. He is part of the so-called faculty leadership group which has met with the campus and system administration on a number of occasions. In addition to this he has an article in print this year and three others in press. He is still active in ACS affairs and has just been re-elected as Councilor for the St. Louis section. He recently completed 15 years as a Councilor and six years on the Council Committee on Local Section Activities. His next assignment at the national level is as a newly elected member of the Committee on committees. He is currently very busy chairing the search committee for a permanent Director of the Center for Molecular Electronics.

James S. Chickos' research program in measurement and estimation of thermodynamic parameters of organic compounds is proceeding very well, and he managed to publish five articles in 2004. His research group currently consists of three graduate and one undergraduate student. During the past year he had two visitors from the Instituto de Quimica Fisica "Rocasolano", Madrid, Spain: Dr. Maria Victoria Roux spent 5 months during the Spring and summer in St. Louis as a visiting Research Associate and Mr. Manuel Temprado spent the fall in the lab as a visiting graduate student. Last September Jim presented a Plenary lecture at the 13th International Conference on Thermal Analysis and Calorimetry, Chia Laguna, Sardinia. He continues to play racquetball, often with graduate **Todd Boehlow** (BS 1991, Ph.D 1997), who works at Pfizer Inc. in St. Louis.



Dr. Anderson with students awardees Lindsay Mangum, Kristina Alderman, shu Yao and James Banto at the awards ceremony

Joyce Y. Corey is as busy as ever. She published a new review on her favorite reaction, dehydrocoupling, in *Advances in Organometallic Chemistry* and she was an invited Session Chair at the Organometallics Gordon Conference in July. She attended the ACS meeting in Anaheim where it was nice to have warm weather and sunshine, and she also attended one of her real favorites, the annual Organosilicon Symposium in Philadelphia in May. This meeting, which has no formal sponsor, will be in its 39th year coming up this June, and she has attended them all! She expects to attend the International Meeting on Organosilicon Chemistry in Wurzburg, Germany in August. During the year she trained 5 undergraduate research students in her laboratory which was certainly a challenge. She continues to serve on the UM system-wide Research Board.

Valerian T. D'Souza's most recent graduate student, Jyothi Swamy received her Ph.D. degree last May. Vally and Phyllis opened their new house in Bel Nor for a graduation party for Jyothi last summer. Some of her work was published this year in *Tetrahedron Letters*. Vally presented a paper at the "Third International Conference on Porphyrins and Phthalocyanines" in New Orleans this summer. He is active in campus affairs serving as chair of the University Senate Informational Technology Committee. He also takes care of the department web site.

Alexei V. Demchenko, who joined the department in August 2001, is seeing success in his research program in synthetic carbohydrate chemistry. The work resulted in thirteen research publications during the period 2003-2004 in journals including *Carbohydrate Research*, *Organic Letters*, *Synlett*, *Current Organic Chemistry*, *Angewandte Chemie*, and *Journal of American Chemical Society*. His article in *Angew. Chem.* was selected as the "Editor's Hot Choice" for May 2004. During the same period, Dr Demchenko delivered ten invited lectures at other universities and international Symposia. He was awarded a PRF-ACS Type-G Award for "Development of the thiazolyl methodology for convergent synthesis of complex glycostructures" and an UMSL Research Award for "Synthesis of the *Streptococcus pneumoniae* oligosaccharide for immunological studies". This year he has been serving on campus Spring Panel of the Faculty Senate Committee on Research. He has also

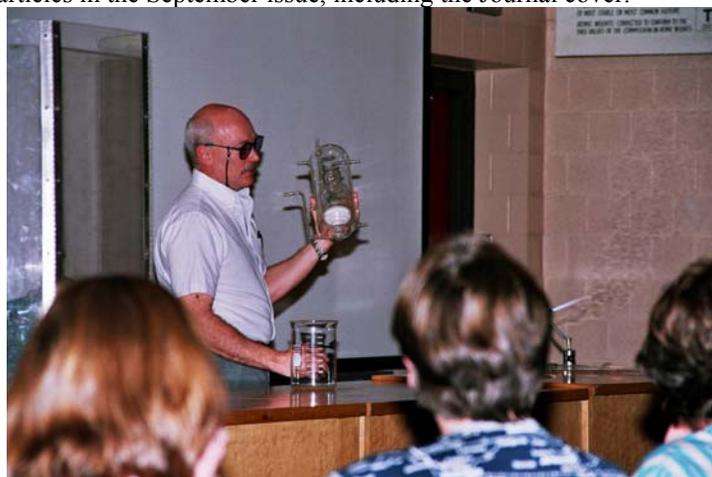
organized the Symposium "Frontiers in Modern Carbohydrate Chemistry" for the ACS Carbohydrate Chemistry Division for the 229th National Meeting in Dan Diego. Dr Demchenko has a group of five graduate students and three undergraduate students working in his laboratory which he calls Glycoworld and they delivered four posters and three oral communications at local and international conferences. Former postdoctoral fellow, Dr. Umesh Gangadharmath, accepted a post-doctoral position at Utah State University. For more information on his research program see <http://www.umsl.edu/chemistry/faculty/demchenko.htm>.

Cynthia Dupureur published two papers this year in *Biochemistry*, one of which is with former UM-St. Louis faculty member Jim Riehl and describes their collaborative Eu-laser spectroscopic work with PvuII endonuclease. This past year, Dr. Dupureur gave lectures at Truman State University, Southern Illinois University-Edwardsville and the University of South Carolina. In January, graduate student Lori Bowen presented her lanthanide spectroscopic work at the Graduate Symposium on Bioinorganic Chemistry, a meeting for students held in conjunction with the Metals In Biology Gordon Conference. In addition, Dr. Dupureur traveled to Bristol, UK this fall to attend a conference on Restriction and Modification Enzymes. With Dr. Anderson's departure and Dr. Spilling's move to department chair, Dr. Dupureur has taken over as chair of graduate recruiting and admissions. This new responsibility, coupled with increased growth of her research group, has begun to challenge even the best time management strategies.

Thomas F. George devotes most of his time and effort to his responsibilities as UMSL chancellor. But as a member of the Department of Chemistry & Biochemistry, Department of Physics & Astronomy and the Center for Molecular Electronics, Chancellor Tom George remains active as a researcher in the area of laser/materials science and nanotechnology. His two most recent grants from the National Science Foundation are: (1) \$100,000 (2003-04) in collaboration with scientists from UW-Stevens Point, Rose-Hulman Institute of Technology and Indiana State University to develop a sophomore-level course in nanotechnology; and (2) \$13,000 (2003-06) in collaboration with scientists at UW-Stevens Point and the University of Szeged in Hungary for studies of ultrafast phase changes in semiconductors. In connection with the latter, he will be traveling to Hungary in spring 2005. He is also the lead principal investigator on a three-year grant (2004-07) of \$270,000 from the U.S. Army Research Office with scientists from the University of Illinois at Chicago, Argonne National Laboratory and Indiana State University to study diamond-like and self-assembling organic nanostructures. He published 15 journal articles/book chapters and 7 conference abstracts in 2004. During the fall, he presented an invited seminar on his research on optical transitions in semiconductor heterostructures both at Rose-Hulman Institute of Technology in Terre Haute, Indiana and at UMSL's Center for Neurodynamics. In 2004 he was one of four foreign scholars elected to membership in the Korean Academy of Science and Technology - the other three were Jerome Friedman (MIT physics professor and 1990 Nobel laureate), Maurice Strong (special counselor for the United Nations Secretary General) and J. Lindsten (president of the Swiss Academy of Sciences). In his spare time, Chancellor George enjoys playing jazz piano at fund-raising and other events throughout the campus and the state. Faculty and students (both

university and high school) have played with him. In 2004, he was a featured performer at the Missouri Music Educators' Association Annual Conference in Osage Beach.

Harold H. Harris supervised, in 2004, the largest group of potential high school science teachers that UMSL has ever produced - 8. Of these, six were on the way to chemistry classrooms and two will become physics teachers. Hal continues to be highly involved with the Journal of Chemical Educator, for which he edits "The Cost Effective Teacher", supervises the Chemical Education Resource Shelf (<http://www.umsl.edu/~chemist/books>), and writes "Hal's Picks of the Month". His unique perspective on the chemical textbook industry was the subject of "An Overview of Chemistry Textbook Publishing Since 1995", that he presented in July, 2004, at the Biennial Conference on Chemical Education, at Iowa State University in Ames. "The Cost Effective Teacher" published four articles in the September issue, including the Journal cover.



Ken Owens BS 1979, department glassblower, demonstrates his skills to a group of high school students at Career Day in April 2004

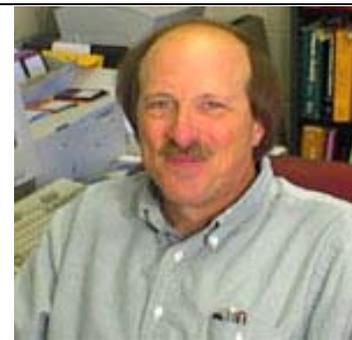
Wesley R. Harris won the ACS St. Louis Award for 2005 and will be honored at a banquet on April 23 and with a symposium on April 22. Wes graduated his seventh Ph.D. student, Claire Brook, in August. He published two articles during 2004 and his research is funded by grants from the National Institutes of Health and the Thrasher Foundation. His research group currently consists of three graduate students and one postdoc.



Dr. Michael R. Nichols

Postdoctoral Fellowship and held a non-tenure track academic appointment with the Mayo Clinic College of Medicine. His research will focus on the biochemistry and biophysics of protein assembly. This area of research has many implications for neurodegenerative diseases. Three new graduate students in the doctoral program have joined the Nichols lab including Deepa

Viswanathan, Maria Udan, and Nikkilina Joiner. Mike was recently awarded a UM System Research Grant from the Alzheimer's Disease and Related Disorders Program which will begin in April 2005. His research laboratory is still in development although meaningful experimentation is expected in early 2005.



Wes Harris, winner of the 2004 ACS St. Louis Section Award

James J. O'Brien moved his lab this year from the research wing to the Center for Molecular Electronics, with the help of his postdoctoral fellow Dr. Shaji Sadasivan. In July 2004 Jim and his wife Leah with whom he collaborates, traveled to Taiwan to attend a conference on Free



Chancellor George and Professor Barton with three alumni and Dr. Dave Ganz at the 2004 Alumni Association Annual Meeting

Radicals. Leah, who is a member of the faculty at SIUE spent the fall 2004 semester on sabbatical leave with Jim here at UM-St. Louis. They published two articles together in 2004 and presented a paper at the ACS meeting in Philadelphia. In addition to chemistry, they are occupied with their two daughters Christine and Emily who are very active in tennis and volleyball.

F. Christopher Pigge recently informed us that he is taking a position as Associate Professor at the University of Iowa. Chris came here in 1996 after doing postdoctoral work at Wayne State University with James H. Rigby and completing his doctorate at the University of North Carolina. His research program here reflected his training. He was involved in developing new synthetic methods that utilize organotransition metal complexes and also in supramolecular chemistry based on 1,3,5-triaroylbenzene unit as a central organizing motif. Chris has had a very successful beginning of his career here. He has published 21 articles, obtained grant funding from the ACS-PRF, The NSF and the NIH; directed the research of three doctoral graduates, two thesis masters students, two postdocs and several undergraduates.

Nigam P. Rath spent last few weeks visiting various x-ray

diffraction instrument manufacturers to evaluate instrumentation. Recently, the NSF awarded funding for the purchase of a new diffractometer. This purchase will enhance the user base and visibility of the department. Nigam has been busy with running x-ray diffraction laboratory and teaching courses. He was also active in the Students and Teachers As Research Scholars (STARS) program and one of his summer student's research project was chosen as one of the five semifinalists in the Siemens Westinghouse Competition in the state of Missouri.

Christopher D. Spilling became chair in August 2004, although he still manages a very active research program. He is currently working with one undergraduate student five graduate students and two postdoctoral associates. He presented lectures at University of Mississippi and University of Arkansas last year. The Group has also been very active in presenting work at meetings. He and some of his group attended Missouri Organic Day and the Great Lakes Regional Meeting. Chris attended the ACS national meeting in Philadelphia, the Midwest regional meeting in Manhattan, Kansas, and the Stereochemistry GRC where he was a discussion leader. Chris and his students Bingli, Anyu and Pallavi attended the International Conference on Phosphorus Chemistry in Birmingham, England. He was a keynote speaker and the students gave posters and he stayed after meeting with his family (Kathy, Andrew, Robert and William) and went to Scotland for a vacation and visited family in England.

Keith Stine is continuing his research in the area of monolayers of biological significance. A current project focuses on the disruptive effects of some plant toxins with lipid and cholesterol monolayers. In addition, he has been developing a collaborative project with Dr. Demchenko and another one with Dr. Pigge. A poster concerning the monolayer project was presented in June 2004 at the 78th American Chemical Society Colloid and Surface Science Symposium at Yale University in New Haven, Connecticut, with part-time MS degree student Rachel Hercules as co-presenter. Dr. Stine recently published a paper concerning monolayers of chiral molecules in the *Journal of Physical Chemistry-B* with collaborators Prof. Dr. Heinrich Hühnerfuss from the University of Hamburg, and Dr. Frank Hoffmann of the University of Giessen. Dr. Stine presented an invited course on surface chemistry at Chulalongkorn University in Bangkok in January 2004 consisting of 22 lectures delivered intensively over a period of six days, and one afternoon of laboratory work. During his visit, he was taken to many restaurants, including one on a riverboat, and found the food to be very enjoyable. In addition, he was taken sightseeing to some ancient ruins and temples north of Bangkok in Ayuthaya. During 2004, he completed his third year as Secretary of the Saint Louis Section of the ACS and assisted Dr. O'Brien with the ACS Chemistry Career Day event.

Janet Braddock-Wilking was appointed to a regular tenure-track position in the department last summer. When Gordon Anderson left, she took on his two graduate students, Colin White and Nikki Praingam. Both were doing organoplatinum chemistry so the switch to platinum complexes of silanes, etc., has been a simple one. Janet gave an invited talk at the Organometallics Gordon Research Conference, in Newport RI, in July and also gave invited seminar to the inorganic chemistry division, at the University of Wisconsin-Madison, in November. She continues

her NSF supported research and will be joined by a postdoctoral fellow from Singapore in January. She published an article in *Organometallics* last September with former postdoc **Kevin A. Trankler** (BS 1998, PhD 2004), former master's student **Kim M. Dill** (MS 2004) and current graduate student **Lisa French** (BA 2003).

Chung F. Wong joined the department in mid-August this year. He is teaching Biochemistry for the first time in the Fall semester. The computer infrastructure in his laboratory has been set up in a small scale at this time and expansion is expected as the size of the group grows. Together with the Beowulf cluster in the University, he has already been able to keep some research going, and he hopes to submit a couple of papers for publication near the end of the Fall semester. He is also excited to welcome the planned arrival of his first postdoctoral fellow in December, and of another one in June next year. In addition, he is happy to learn that a new student is interested in joining his research group.

Zhi Xu in collaboration with **Dr. D. W. Larsen** has seen great success in developing an "Ultrasensitive Spectrophotometer." The initial patent on their discovery was issued in 2003 and others are in progress. Their first commercial instrument was introduced into the worldwide market during the summer 2004. The work was one of 10 projects to be honored at the 2004 St. Louis Technology Awards. Dr. Xu was named as "Inventor of the Year" by the Saint Louis Business Journal in March 2004 and received the University of Missouri System's *Faculty Entrepreneur of the Year Award* in April 2004. An article in the St. Louis Business journal described the work and the awards and also reported that the technology was licensed by Alltech Associates Inc., of Chicago and that a second license on another aspect of the technology is being negotiated with an undisclosed company.

Emeritus and Former Faculty Colleagues

Gordon K. Anderson left the department in summer 2004 after 23 years, including the last six as chair, to become Dean of the College of Arts and Sciences at East Tennessee State University. ETSU is located in Johnson City, in the northeast corner of Tennessee, and is surrounded by the Appalachian Mountains. It has a student enrollment similar to that of UMSL. As dean, Gordon is responsible for 16 departments and the Center for Appalachian Studies and Services. He is enjoying his new administrative duties. He and his family have settled well in "the south", but he says it may take some time to develop the local accent! As he says, "After that many years in St. Louis and in the chemistry department, the move to a small town and an administrative position was quite a change, but it is one that is working out well."

James P. Riehl is Dean of Science and Engineering at the University of Minnesota-Duluth. The Bartons spent an excellent long weekend with Jim and Ceci in Duluth this past summer. Jim was recently named a McKnight Presidential Leadership Chair at UM-Duluth.

David L. Garin began his two year stint as President of the UMSL Retirees Association. He recently teamed with Hal Harris

to perform some chemistry experiments/demonstrations at a local high school. When not at UMSL, Dave can be seen riding a bicycle in places as far removed from one another as Oregon, Forest Park, and Holland.

Rudolph E. K. Winter is as permanent a fixture in the department almost as ever. He continues to run the MS facility with Joe Kramer and also conducts research in collaboration with colleagues here and at UM-Columbia. Indeed he has co-authored several articles this past year including two in the *Journal of Chemical Ecology*, one in *Phytochemistry*, one in *Environmental Entomology*, one in *Tetrahedron Letters* and one in *Organometallics*. However his most proud accomplishment is that he and Margaret now are grandparents to 3.9 grandchildren. Nicholas is 3, Andrew is 2, Julia is two and daughter Elizabeth is expecting within weeks. The latter lives in Sarasota, Florida so Rudi and Margaret have somewhere to escape to in the cold in winter months.

Adjunct Faculty

Jim Bashkin, in collaboration with Dr. Chris Fisher, a biologist in Kalamazoo Michigan, obtained funding from NIH and the State of Michigan to investigate possible prevention and cures of cervical cancer. **Dr Kevin Koeller** (Ph.D. with Chris Spilling) and Shane Haley (B.S. from UMSL in 2004) joined Jim's lab in the department in the summer of 2004. He submitted another NIH proposal in the Fall of 2004, and has recently been invited to contribute to a multicenter NIH SPORE grant on cervical cancer, being coordinated by Dr. Janet Rader of Barnes Hospital and the Siteman Cancer Center. He continues several collaborative projects with Professors John-Stephen Taylor and Danny Kohl of the Chemistry and Biology Departments at Washington University. Finally, he has begun to collaborate with Dr. Dan DiMaio of the Yale Medical School on cervical and other cancers, including AIDS-related tumors. He is a member of the editorial advisory board for Chemical Reviews, and recently finished a term as Associate Editor-the Americas, for the RSC journal *Green Chemistry*.



Professor Jackie K. Barton

Joseph Dence continues to teach in almost every area in the department. He is now doing Introductory Chemistry II and has written up a series of new experiments. He also teaches physical chemistry, he once taught organic chemistry I and is scheduled to teach organic chemistry II next year. He is currently writing a text on Advanced Calculus jointly with his brother

Thomas who is a faculty member at Ashland College in Ashland Ohio. They have completed 6 of 7 chapters. Joe has also written a series of mathematics for physical chemistry notes which he uses in physical chemistry courses. He tried hard to have the

department establish a required course in mathematics review but was unable to do so.

John L. Gutweiler has been teaching in the department since 1972. Currently he is teaching general chemistry and quantitative analysis. John also has been on the faculty and has moved up the ranks at the Logan College of Chiropractic. We are sad to report that his mother passes away in December 2004.

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 Dr. Jacqueline K. Barton, *Arthur and Marian Hamish Memorial Professor and Professor of Chemistry* at the California Institute of Technology who spoke on *DNA Transport in Chemistry and Biology*. This year Professor Peter Bernath, from the Department of Chemistry at the University of Waterloo, Canada, will give the Eighth Annual Robert W. Murray Lecture on Monday, March 7, 2004.



Dr Anderson congratulates Bill Hanshaw on his receiving the Jack L. Coombs Award as the Outstanding Teaching Assistant.



Distinguished Alumnae Lecture Jean Huhmann-Vincent receives framed certificate from Dr. Barton at the Departmental Awards Ceremony

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 2004-2005 recipient is **James Banto**.

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 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 2004 the award was split three ways between **Pallavi Badkar, Lori Bowen** and **Medha Kamat**. 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 2004-2005 fellowship went to **Nikolina Tueth**. Again, this is the only fund that supports women students and 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 Fellowships went to **Shu Yao** and **James Banto**.

Departmental Awards for 2003-2004

Undergraduate

The award for the *Outstanding Student in Introductory Chemistry* went to **Bryan Carey**. He 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 **Kristina Alderman** and the *American Chemical Society Award for Analytical Chemistry* went to **Steve Lichtenberg** 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 **Shu Yao**. The award was presented at the annual Awards Night during the ACS St. Louis Section's Chemical Progress Week. **Steve Lichtenberg** received the *Alan F. Berndt Outstanding Senior Award* and the *American Institute of Chemists-Student Award Certificate*. A *William and Erma Cooke Scholarships* for 2003-04 went to **Baljeet Singh, Shu Yao** and **Aaron Young**. The *2004 Undergraduate Chemistry Aid to Education Awards* were awarded to **Shu Yao, Kristina Alderman, James Banto, Baljeet Singh, Lindsay Mangum, Steve Borgmeyer** and **Jesse Meinhardt**. The 2004-05 *Barbara Willis Brown Scholarship for Women in Chemistry* went to **Nikolina Tueth**, the 2004-05 *Eric G. Brunngraber Undergraduate Research Fellowship* went to **Kristina Alderman** and the 2004-05 *Lawrence Barton Scholarship* went to **James Banto**. A *Certificate of Commendation for Outstanding Service* went to **Michael Petetit** and *Outstanding Undergraduate Teaching Assistant Awards* went to **Emma Farrell** and **Shu Yao**.

Graduate

The 2004-05 *M. Thomas Jones Memorial Fellowships* went to **Pallavi Badkar, Medha Kamat** and **Lori Bowen**. The 2003-04 *Graduate Student Research Award* went to **Bingli Yan**. A *Commendation for Excellent Performance by a Teaching Assistant* was awarded to **Lisa French** and the 2003-04 *Graduate Teaching Assistant Award in Memory of Jack Coombs* was awarded to **William Hanshaw**.

Alumni

Jean Huhmann-Vincent BA 1992, Ph.D. 1997 presented the 2004 Distinguished Alumni Lecture. Details are to be found under **Alumni News** on page 7. The 2005 lecturer will be **Rajiv M. Banavali**, Ph.D. 1985. The lecture will be given on May 2 and more information about Rajiv is to be found under **Alumni News** on page 5.



Dr Anderson with M. Thomas Jones Award recipients Medha Kamat, Lori Bowen and Pallavi Bellur.

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 2004

Dr. Dennis M. Anglim
 Dr. and Mrs. Phillip V. Asaro
 Dr. and Mrs. Sanford A. Asher
 Dr. and Mrs. Lawrence Barton
 Ms. Rhea S. Baxter
 Mr. Michael J. and Dr. Pauline Bellavance
 Mr. Wayne R. and Dr. Debora F. Bergstrom
 Dr. Teresa M. Blasé
 Mr. and Mrs. Paul D. Bostick
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 Dr. and Mrs. Dennis W. Wester
 Drs. Bruce A. and Janet B. Wilking
 Dr. Shuguang Wu and Ms. Bo Liu
 Dr. and Mrs. Michael W. Young
 Dr. Henghu Zhu

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UM-St. Louis Chemistry Alumni Fund

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

