

# UMSL CHEMIST



Volume 18

Department of Chemistry  
Summer 2000

## Chairman's Message (Gordon K. Anderson)

The past year has been an eventful one, as usual, for the Chemistry Department and the campus. We have seen changes in faculty and staff, as well as the physical facilities. The department has now granted over 1,000 degrees, 747 BA and BS degrees, 166 MS and 91 Ph.D. degrees.

Dr. Murray and Dr. Garin officially retired in 1999, although both are still in the department on a regular basis. Dr. Murray continued his NIH-funded work in oxidation chemistry through the early part of this year, and he and Dr. Megh Singh are now in the process of closing down his research lab. Megh is currently working at Monsanto. Dr. Garin taught Chemistry 11 and the organic lecture sequence during 1999-2000, although he has decided to pursue other activities during the next academic year. He introduced a series of graduate student or undergraduate peer-led workshops into these courses, and these appear to have been quite successful. The university provided a voluntary early retirement program this year, and Dr. Larsen has decided to take advantage of this opportunity. He will retire formally at the end of August. He and his wife Marcia plan to do some travelling in the fall, but we expect Dr. Larsen to be back in the department teaching in the winter semester.

Donna and Joe Kramer are now the proud parents of Jessica Belle, born on April 15, 2000. Donna is currently on maternity leave, but she will return to the department at the end of July. When she returns she will assume the new title of Coordinator of Laboratory Operations. As such, this fall she will take on greater oversight of the undergraduate laboratories, particularly Chemistry 11 and 12, as well as taking on greater responsibility for safety and waste disposal issues. Also this fall, Dr. Zhi Xu will be formally promoted to the rank of associate professor with tenure.

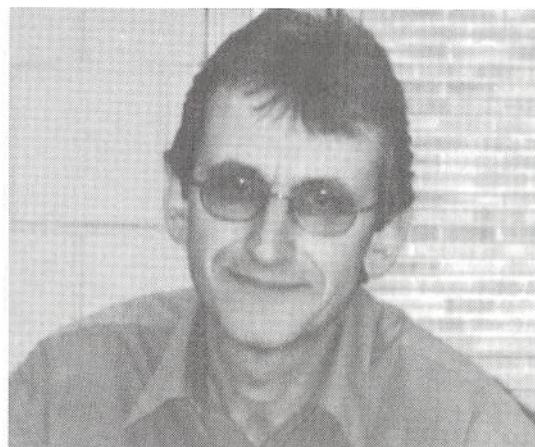
The past year has seen a considerable number of changes in the Chemistry Department office. In fact, I think there have been more changes in the office in my first 18 months as chairman than there were in Dr. Barton's 18 years! I do not take all the credit for this, although there are a number of theories and explanations floating around. Lisa Hoguet left the department last August to stay at home with her two children. Randa Schneider left at the end of the year, after over 18 years in the department, when she

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

and her husband Mike moved back to Quincy, IL. Mike has a new position there, but I understand that Randa is still a lady of leisure. Randa's many contributions to the department are greatly missed. Glenda Gillespie spent one year here, and she has recently moved to the smaller setting of the Sociology Department. The latest team is composed of Charmaine Henson, who joined us in early May after working on campus in University Relations and previously at Monsanto, and Pat Mayberry, who started work at the end of June. Pat worked previously for the Ferguson-Florissant and Hazelwood school districts.

During the past year, we received funding from the National Science Foundation and the UM Research Board to upgrade the Varian XL-300 NMR spectrometer. This was purchased in 1985, and it was the workhorse instrument for the research activities of the department for many years. The magnet was replaced a few years ago, when we purchased the Varian Unity plus instrument, and now we will replace the entire console. It will also undergo a transition from a Varian to a Bruker instrument when the upgrade takes place later this year.

We are preparing for the long awaited renovations of the undergraduate teaching labs. \$5 million has been appropriated for renovation of the east wing of Benton Hall, and work should begin at the end of the winter 2001 semester. It will surely not be finished by the end of the summer. Thus, while we are delighted that we will finally have modern facilities in which to teach, the short-term disruption will be tremendous. Not only will we have to vacate the labs, and teach laboratory courses without laboratories somehow, but we will also have to move the storeroom, glassblowing shop, etc. The new West Drive and



*Dr. Anderson the 2000 ACS St. Louis Awardee*

Parking Garage opened earlier this year, although the latter has not alleviated the parking problems in the vicinity of the Science Complex. West Drive was moved so that it joins Natural Bridge Road directly opposite the entrance to Bel-Nor, where a traffic signal has been installed. The saga of the traffic signal was a long one, with delays due to someone's failure to order the signal, the wrong type of cable being ordered, and then the Missouri Department of Transportation taking many weeks to synchronize it with other signals on Natural Bridge. The next major road renovation will be at the other end of the campus, where the Florissant Road entrance will be completely transformed as I-70 is to be straightened and UM-St. Louis is to have its own exit from the highway.

Professor Harry Wasserman (Yale University) gave the 3rd Robert W. Murray lecture in April, and his presentation was followed by a reception at the Alumni Center. Funds for the Murray Lectureship have been provided by alumni, friends and colleagues of Dr. Murray. I am pleased to be able to tell you about two new scholarships that will be given for the first time in fall 2000. One is the Lawrence Barton Scholarship, which will be given annually to a chemistry major who is a first generation college student. The scholarship has been funded by alumni and friends of Dr. Barton and the department. The other is the Women in Chemistry Scholarship, which is to go to a female student over the age of 24. This has been provided by a generous gift from chemistry alumna Barbara Willis Brown. Providing funds to help future chemistry students is a good way to remember your days in the department.

Please feel free to stop by the Chemistry Department whenever you might have the opportunity. If there is any way that we can help you in your chosen career, please let us know.

### Editor's Message (Lawrence Barton)

You will note some new features this year in the UMSL CHEMIST. Since many alumni can relate only to the faculty members who were here when they were here, I have added a section on former colleagues. This represents quite a number, twelve in all. In fact, of the faculty members who will be here with regular appointments next fall, only five were here when I took the chair in 1980; the others joined us during my term as chair. With respect to the former colleagues, I have regular contact with some of them, with others we exchange greetings at Christmas and with others we have lost contact. Thus this exercise has allowed me to reestablish contact with some colleagues, all of whom are friends. One feature about this department, and something those who have gone on to graduate school elsewhere will note, is that we get along quite well together. This is not the case in many academic departments and it serves both the students and faculty members very well. It is much easier to be productive in a friendly and comfortable environment.

This year we will revive the Alumni Reception. The last two we planned did not receive a very good response and indeed, one of them was cancelled. We have invited you to various other events, the Murray Lecture, the Distinguished Alumni Lecture, etc., but we decided it was time to hold a general reception. I have not yet decided whether it would be beneficial to establish a Chapter of the Alumni Association. In the past there has been little support for one. It is my impression that chemistry alumni enjoyed reading about their former colleagues in the UMSL CHEMIST,

they enjoy maintaining contact with the department, both with faculty and former students, and they have been very generous in providing both financial and other support. On the other hand they are not particularly interested in attending meetings, receptions, etc. If my reading is wrong, I would love to hear from you about this subject. If we were to establish an alumni association chapter, we would require some volunteers. I point out that I am a great supporter and believer in the Alumni Association and indeed currently serve on the Board of Directors.

This has been a most successful year for the faculty and staff of the department. Dr. Winter was presented with the Governor's Award for excellence in teaching, Ted Windsor was honored with the ACS St. Louis Section "Technician of the Year Award", Dr. Anderson won the 2000 ACS St. Louis Award, and we recently heard that Dr. Corey will be presented with the ACS Midwest Award at the Regional Meeting in St. Louis in October. This latter news, hot off the press, is particularly pleasing as the department is essentially hosting the ACS Regional Meeting so this will be a nice way for us all to get together to celebrate another departmental and, in the case of Joyce, personal success. I feel particularly pleased for our colleagues both because they are most deserving and also because I wrote the nominations.

With the recent early retirement initiative and the passing of time, the faces on the faculty are rapidly changing. I came to UM-St. Louis in the era of its largest expansion. There were probably more faculty members hired between 1965 and 1970 than in any other period in our short history. Next year I will be the longest serving faculty member in the chemistry department and one of the longest serving on the campus. We are hopeful that the retirements will be replaced in the next few years, but that is not a foregone conclusion. The other side of the ledger, the number of chemistry graduates entering the workforce or going on to graduate or professional school continues to grow quite well, although at the moment the number of graduates and the enrollment are lower than we would prefer - due mainly to the good health of the economy. When the job market is good, enrollment on commuter campuses in areas where there are jobs tends to drop as students find that part-time work is quite lucrative. This year we saw our 1000<sup>th</sup> degree recipient graduate and our 100<sup>th</sup> Ph.D. will graduate in the next year.

Please also send us information about yourselves, or about colleagues who are alumni. We are interested, as are your former colleagues, in items about your professional or personal lives. Finally I wish you all the very best in your personal lives and careers.



*Ted Windsor with Dr. Barton, ACS St. Louis Section Chair Dr. Pauline Bellavance and Sue Dudeck, Section Chair-elect and award chairperson, when Ted received the ACS St. Louis Section's Technician of the Year Award.*

## Alumni Information

### 1967

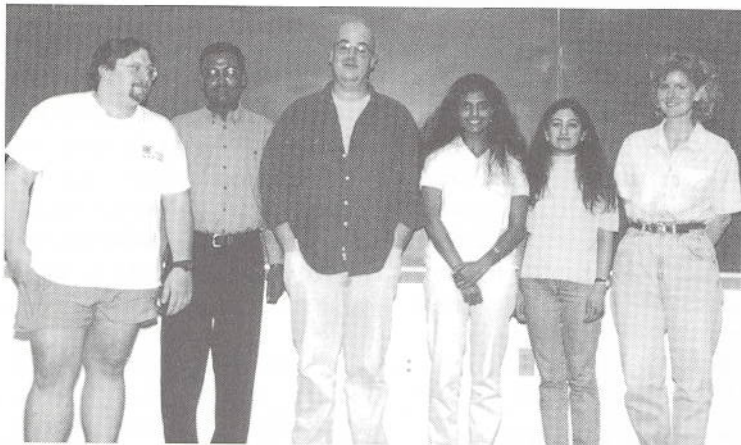
**Ed Bovier** BS continues at Anheuser Busch in St. Louis and serves as Director, Safety and Risk Management in the Operations Safety and Environment department. We heard this from **Jim Grib** (See 1975)

**David Henton** BS won the 1999 American Chemical Society Midland Section Award. Dave is a research chemist at the Dow Chemical Company in Midland MI and has a Ph.D. degree in organic chemistry from the University of Kansas.

**Lloyd Hill** BS who holds a Ph.D. degree from Iowa State University, has returned to Mallinckrodt as of April 2000 as a Senior Research Associate in the Pharmaceuticals Division. He had been in Florence, South Carolina, as a Research Leader with the Hoffman-La Roche Company.

### 1969

**Lee Gori** BS is the Quality Manager at Solvay Fluoride Inc., in East St. Louis. The Company was Chem-Tech, Inc. until last March. Lee is involved with the ISO-900 Programs, quality assurance standards which are now essentially universal throughout the world. He has been with the company for two years.



Graduate School Summer Fellowship awardees Brad Rowe, Mesfin Janka, Gary Nichols, Philippa Jayatilleke, Swati Puri and Elizabeth Amin

### 1970

**Gene T. Bohn** BS continues as the Plant Manager at the Borden Chemical plant in Toledo Ohio. His oldest son, Eric is in Law School and hopes to specialize in patent law. His daughter, who graduated from Indiana University in 1998 with a double major in computer information systems and business, started work and remains in Cargill, Minneapolis. His youngest was expected to graduate from high school in June.

**John Chruma** BA after a 29 year career in the plastic resins business at Monsanto, where he worked as a bench chemist, technical service specialist and applications services manager, has seen a career change. The business was sold to Bayer Corporation in 1996. Since then John has become a field engineer offering training seminars, finite element flow simulations and other trouble-

shooting tasks. He is active in the St. Louis Society of Plastics Engineers where he is the Education Chair and Technical Program Chair. He and his wife Sharon have two adult children who are both married and live in the St. Louis area.

**John Koenig** BS is Technical Supervisor in the Toxicology Laboratory at Barnes-Jewish Hospital in St. Louis. John is very active in the American Society for Clinical Laboratory Science. In 1999 – 2000 he served as President of the Missouri Organization for the Society. He has served several times as assembly chair for the Society and has received the Board of Directors Award.

### 1971

**Sandy Asher** BA who is Professor of Chemistry at the University of Pittsburgh and has established a substantial reputation as an analytical chemist, presented several papers at the March 2000 Pittsburgh Conference on Analytical Chemistry. He recently was honored with the *Bomen-Michelson Award* of the Coblenz Society. We visited his laboratory recently and saw some of his novel materials based on crystalline colloidal arrays. These are ordered arrays of colloidal particles formed in a liquid. The colloidal particles repel each other and form a cubic array which Bragg diffracts light from the UV through the visible and the IR spectral region. These arrays serve as diffracting optical devices. He and his students have developed methods to polymerize these arrays in solid films that change dimension in response to chemical, electrical, and thermal environmental changes. They have utilized these materials to develop a new chemical sensing motif which creates a new generation of optical switches for use in optical computing, for chemical separations and for thin film display devices.

**Dorothy (Cooke) Greco** BS has funded the *William and Erma Cooke Memorial Fellowship* in the department for several years now and the endowment has grown such that two fellowships have been awarded in the past couple of years.

**Dr. Dennis W. Wester** BS was promoted to Staff Scientist at Pacific Northwest National Laboratory, operated by Battelle Memorial Institute for the U.S. Dept. of Energy. He recently received notification that he had won a CRDF (Civilian Research and Development Foundation) grant to develop a  $^{188}\text{W}/^{188}\text{Re}$  medical-isotope generator in collaboration with his colleagues at Khlopin Radium Institute in St. Petersburg, Russia. They are waiting to hear about several other proposals that were submitted.

### 1972

**Linda Sease** BS had been with Edison Brothers for 22 years but the company went bankrupt in early 1999. Linda is now at Rose International in St. Charles County. She is a contractor and works in computer programming. Rose International was recently cited as one the most successful minority-owned businesses in the area.

**W. Steven Tait** BA, who holds a Ph.D. degree in engineering from the University of Wisconsin-Madison, had been living in Racine WI and working for S. C. Johnson. Steve retired recently and now is the principal consultant in corrosion engineering for *Pair O Docs*. Steve and his wife Sue moved to Madison and their oldest daughter was married in June, 2000.

1974

**Virginia (Martin) Hauserman** BA, along with two partners, runs *Hunea, Hauserman and Long*, a large infertility and in-vitro fertilization practice with 45 employees in Birmingham, Alabama. The company performs over 250 in-vitro fertilization cycles per year. Ginny and her husband Ray have a nine-year old son and twin boys aged four. When we heard from her last fall they were planning a millenium cruise, as a family, to the Panama Canal.

**William Z. McCarthy** BS (Ph.D. 1984) is a Research Manager for Imaging Products (both X-ray and MRI agents) at Mallinckrodt Inc. in St. Louis. He is in charge of process support and development.

**A. Greg Wall** BA (MS 1981) was featured in *SCI-INFO*, the publication of the Academy of Science of St. Louis, in September 1999. Greg was participating in the Academy's Speakers for Science Program at the St. Louis Science Center. This is an outreach activity, which is aimed at students in local schools. Greg has been very active in such activities with the St. Louis Section of the American Chemical Society. Greg is a chemist with the Sigma Chemical Company in St. Louis.

1975

**Paul P. Civili** BSG was at the Chancellor's Report to the Community in May. He has been working for the army in acquisition support and has an MA degree from Webster University.

1976

**Robert A. Frease** BS is currently teaching chemistry and science for Johnson Co. Schools and lives in Clinton Missouri about 70 miles southeast of Kansas City. His second daughter, Melanie Grace, was born on June 24, 2000. Bob and his wife Wendy already have 2-year-old daughter Molly.

**James J. Grib** BS (MS 1982) is Technical Senior Manager - International, Corporate Quality Assurance, at Anheuser-Busch in St. Louis. His primary responsibility is to ensure that the licensees and contract brewers meet A-B Quality Standards. This involves weekly analysis of data, taste, laboratory audits, collaborative analysis, supplier audits (malt, rice, hops, bottles, crowns, cans, lids, kegs, cartons, etc.), qualification of new materials, beer age in trade. He also oversees QA on exports to Canada, Central and South America, UK and Europe.. Weekly trend analyses of data are provided to senior management along with monthly and quarterly comparisons of brewery data and taste. Breweries are: Labatt-Canada (seven plants), CCU-Argentina, Guinness-Ireland (three plants), Budweiser Stag Brewery in Mortlake, UK, Scottish-Courage Brewery in Reading, UK, Bass Brewery in Burton-on-Trent, UK, Greene King Brewery in UK, Holsten Brewery in Germany. Jim gets to visit these sites regularly!

**Richard Hoyt** BS has been promoted since the publication the last UMSL CHEMIST. His new title is Vice-President and General Manager in New Product Development for the Pharmaceuticals group at Mallinckrodt Inc. in St. Louis.

**Rodney R. Knight** BA Econ (MBA 1980) is not a chemistry graduate but returned to take chemistry and biology courses in order

to apply to Medical School. He took Chemistry I with the editor in 1972 and courses in the department in the late 1980s. He has been a good friend to the department since then and is now Chief Resident in the California Department of Health Services' Preventive Medicine and Public Health Residency Program in Sacramento.

1977

**Victor Granat** BS is now a development chemist and salesman for Titan Manufacturing, which is on Manchester Road in St. Louis. Vic had previously been with the St. Louis County Crime Laboratory for 15 years, much of that time as Director.

**James Ketchum** BS, who did graduate work at what was once the Paper Chemistry Institute in Appleton, Wisconsin, is now living and working in Everett Washington and we would certainly like to hear from him!

**Cheryl (McClain) Shea** B.A, who holds a MBA from Washington University, continues as President of Creative Marketing Solutions in St. Louis. She announced the receipt of a first place Arrow Award for the second year in succession. Her production of a catalog led to a 23% increase in sales for a client; Champion Boats.

**Steven Macarthy** BS is a Chemist I in the Brewing Technical Services Department at Anheuser-Busch in St. Louis. We understand Steve is doing analytical work and procedure development for the Brewery.

**John Seibold** BA is Technical Manager I in Corporate Quality Assurance at Anheuser-Busch in St. Louis. His primary responsibility is the Central Quality Assurance Laboratory. His staff members do routine analysis of raw materials (malt, rice, hops, etc), special projects, new instrumentation qualifications, and are responsible for the museum where the company stores beer samples for up to one year. He also has specialists working with him who are responsible for the various analytical instruments in all 12 domestic and 2 international breweries.

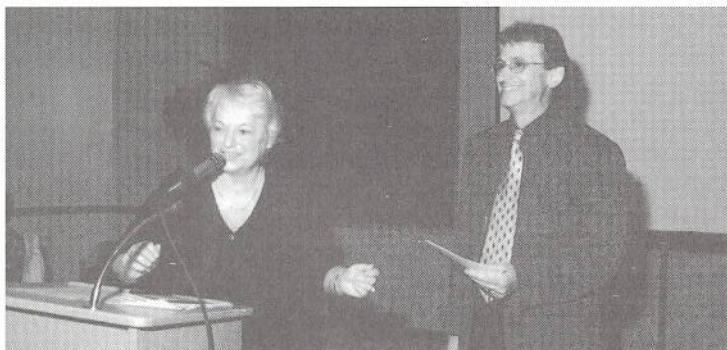
1978

**Patricia J. Barton** BA, chemistry and history (MA History 1980) is now Director of Research and Assistant Dean of the Graduate School here at UM-St. Louis. In addition to supervising the Office of Research, Pat assists faculty with research grant applications, prepares sub contracts related to research grants, supervises the Graduate Admissions operation, and also works with the Human Subject and Animal Research compliance requirement committees. Until October 1999, she was Director of the Office of Research at Southeast Missouri State University.

**Dr. Pauline Bellavance** Ph.D. is Chairman of the St. Louis Section of the American Chemical Society and has already had a very busy year presiding at all Board of Directors' meetings, Recognition Night and several events during Chemical Progress Week including the St. Louis Award Banquet when she presented Gordon Anderson with the St. Louis Award.

1979

**Bruce Ritts** BS (MS 1983) is also very active in the St. Louis



Pauline Bellavance presents Gordon Anderson with the St. Louis Award

Section of the American Chemical Society. He currently serves as a member of the Steering Committee, Chairman of the Publicity and Public Relations Committee and a voting member of the Board of Directors. Bruce has been with Steris Corporation since Petrolite moved to Houston.

### 1980

**Razia (Hameed) Ahmed** Ph.D. was in the department for the memorial celebration we held for Tom Jones in February. She is living in Peoria, IL and has been doing some teaching. Razia suffered some injuries in a bad car accident and that has slowed her down and resulted in her retirement from the USDA Laboratory but she was looking very well when she was here.

**Debora F. Bergstrom** BS who holds a Ph.D. degree from the University of Michigan, is Global Research Leader at Dow-Corning in Midland MI. Debbie was Chair of the Midland Section of the American Chemical Society in 1999 and was at the ACS Meeting in New Orleans in Aug. 1999 to receive a National Chemistry Week Award for her Section. She also delivered the *Distinguished Alumni Lecture* in May. Details are found later on in this volume.

**John Bookstaver** BA was in the department for the St. Louis Award Symposium last April. He received a Ph.D. degree from Washington University and has taught at Ursuline Academy in St. Louis for about 15 years has also been an Adjunct Professor at St. Charles Community College for the past several years.

**Donna (Alway) Friedman** (Ph.D. 1980) continues to teach at UM-St. Louis in the evenings and summers. This year she participated in the ACS Career Day for High School Students and made a presentation on Florissant Valley Community College's Chemical Technology Program.

**Michael Hauser** BS (MS 1985) presides over the College Awards Program for the St. Louis Section of the ACS. Mike is a faculty member at Meramec Community College. We had dinner with Mike at the ACS Awards Night Function in April.

**Randy F. Johnston** BS is finishing his second year as Chair of the ten-member Department of Chemistry and Physics at Union University, in Tennessee. He published three papers last year in his research in organometallic chemistry; one in *Polyhedron*, one in *JACS* and the third in the *Journal of Electroanalytical Chemistry*. Randy was promoted to Full Professor in March 2000, and is currently leading his department towards ACS certification of the

chemistry degree. He has been married to Teresa for 14 years and they have a ten-year old son, Joshua.

**Mark Leiber** BS (MS 1986) was at the St. Louis Award Symposium in April with members of his research group. Mark has been at Monsanto since graduation.

**Charles R. Thierheimer** BS (MS 1983) and his wife Cindy Dahl have been in Corvallis, Oregon for almost 14 years since he moved there from Petrolite in St. Louis to work at Hewlett Packard. They have two children Erik and Marisa, and enjoy their roles as not-so-young parents. Chuck is a serious runner, logging 25 miles per week. Cindy is a senior environmental engineer at CH2M-Hill in Corvallis and was recently named as the Local Office Manager. Chuck was promoted to Senior Chemist with HP in 1994, and has been working in ink chemistry and development recently. After 20 years in professional chemistry, his major interests are in polymer chemistry, chemical process development, statistics and experimental design. He still studies chemistry, recently purchasing a copy of Paul Flory's "Principles of Polymer Chemistry", published in 1953!

### 1981

**Ali Bazzi** Ph.D. is a Manager in charge of validations for Pharmaceuticals and Imaging Products for the Mallinckrodt Inc., St. Louis site.

**C. Michael Drain** BA (BFA) was recently promoted to Associate Professor (with tenure) at Hunter College of the City University of New York (CUNY). He also is an adjunct faculty member at The Rockefeller University, New York. Mike has been quite successful in obtaining research grants to support his studies in self assembling of photonic materials based on porphyrins and other photoactive molecules. Among others, he has a NSF CAREER Award for "Design and self-assembly of supramolecular photonic materials" and other grants from NIH, NSF, and the ACS Project SEED program. In addition he has raised funding for instrumentation and for activities with High School teachers, minorities and graduate student training activities.

**Dennis Parazak** BS (MS 1986, Ph.D. 1996) after all of these years, finds himself working in a cubicle located right next to Chuck Thierheimer, (BS 1981, MS 1983) one of his old Petrolite cohorts. Dennis has been at Hewlett Packard in Corvallis, Oregon, for nearly 4-1/2 years now and is still doing ink chemistry. Dennis, and HP, were granted another patent last February, "Reliability enhancement of microemulsion-based ink-jet inks". Lynn (his wife) and son Eric (now a very interesting 2-3/4 year old) are doing well.

**Gary Schilling** BS treated me to an excellent lunch when I was at the ACS meeting in San Francisco in March. I asked Gary to summarize his past 20 years in a short paragraph. He sent this to me. "In 1981, after leaving UMSL with BS Chemistry/Math, I interviewed with several firms in the area (both fields) but ended up accepting the first offer that came as an actuary with Tillinghast, Nelson & Warren in St. Louis. It's funny, because if Monsanto offered their position first, I would probably be employed in chemistry now. I left St. Louis to join Coopers & Lybrand in San Francisco as an actuary in 1983. Then I found that the actuarial profession was more business-like than my interests, so I left in

1985 to join Wells Fargo Bank (in SF) in their Private Client Services systems group as a Senior Systems Analyst (computer field). A couple of years and many system projects later, I became a VP/Manager in this group and managed a team of system analyst, programmers, and consultants to implement and support a variety of investment-related systems. In 1999, I accepted a position to manage the Information Technology group with Wells Capital Management in San Francisco (an investment management subsidiary of Wells Fargo with \$70 Billion in assets under management). My team supports a number of systems, systems projects, internet systems, LANs, and networks for this group. I hold the Chemistry (and Math) degrees I earned from UMSL in high degree and regret that I have never been able to put the Chemistry to good use nor pursue a graduate degree. It is interesting that 20 years later (and not having used it), I still remember a lot of what I learned in Chemistry. My current interests, outside of work, are playing classical guitar (favorite composers are Tarrega and Lauro), researching math problems in number theory, oil painting, and traveling with my girlfriend."

### 1982

**Steven Lawrence** BS (Ph.D. 1990) was promoted to Full Professor, effective July 1, 2000, at Saginaw Valley State University, in Saginaw, Michigan. In March this year Steve received a letter from Michigan Governor John Engler congratulating him on receiving the 2000 Honors Convocation Award from the Michigan Association of Governing Boards of State Universities. This is the third major award Steve has obtained at SVSU. He has already been honored with campus awards for teaching and research.

**Gregory Noelken** BS joined the staff of the Chemistry Department at Washington University in March 1999 as a computing support specialist. He will be responsible for, among other things, the department web site. Greg had been with Petrolite for several years prior to the sale of the company and its move to Houston.

### 1983

**L. Dee (Lange) Bianca** BS (Ph.D. 1990) taught introductory and organic chemistry here during 1998-99 but she tells us that she has been putting in a lot of time at her Air National Guard unit since then. She was appointed Commander of the unit (261st Combat Communications Squadron) in Van Nuys; this is a time-consuming activity. Dee is retiring on 8 July 2000 from the Air National Guard, however, after 28 years time in service. She has recently spoken to the chemistry department at Cal State San Marcos and hopes to teach as an adjunct there this fall. She and husband Frank live about 15 minutes away. They spend much time travelling together but want to remind their friends that they are close to many tourist attractions in Southern California and all are welcome to come and visit them.

**Fatemah Ghasedi** BS (MS 1989) is a student in the Ph.D. program and is working in the research group of Professor Pigge. She is a faculty member at East Central College in Union MO.

**Colleen Jonsson** BA is on the faculty at New Mexico State University. We understand, from her colleague Quintana that she has been on sabbatical leave at the US Army Research Material Command at Fort Dietrick, Montana, funded by an NIH grant.

**Suzanne Saum** BS visited the department during the St. Louis Award Symposium where her Ph.D. advisor, Dr. George Stanley, formerly of Washington University but now at Louisiana State University, was one of the speakers. Sue continues to teach at Lindenwood College in St. Charles MO and serves on the editorial staff of the *Chemical Bond*, the St. Louis Section ACS publication.

**Mark Vilmer** BS is now Laboratory Director in the Department of Health, St. Louis Public Health Laboratory. Mark was on campus during the St. Louis Award Symposium when his doctoral advisor, Professor Julian Davies of the University of Toledo was one of the speakers.

### 1984

**Barbara (Willis) Brown** BS (OD 1988) continues to practice optometry on the weekend but now has the position as Development Officer for the School of Optometry. This year Barb established an endowment for an award in the department (see later).

### 1985

**Rajiv Banavali** Ph.D. is with Rohm and Haas in Houston, but when the company purchased Morton International his company considered moving him to Boston to take over the boron hydrides business. Rajiv was unable to attend the reception we held for Professor Murray but he sent the following message which we read at the reception:

"I wish I were here in person, but the next best thing I could do was to let everyone know my thoughts. What I am today as a chemist is largely because of what I learned in those 5 years I spent in the UMSL Chemistry dept. As Dr. Murray's Ph.D. student, I learnt how to be a physical organic chemist. I will always remember his gentle nature and his skills as a teacher to let his students be independent thinkers. Along with chemistry, he taught me how to write and give presentations. I still remember many of his pointers and use them to teach young chemists in my group. On a personal note, I miss his famous BBQ'd ribs in summer and the touch football games on the Thanksgiving holiday. These events made us all research group members feel like an extended part of his family and I will always feel like one. With my best wishes to both Dr. & Mrs. Murray in their retirement!" Rajiv visited the department just before the reception.

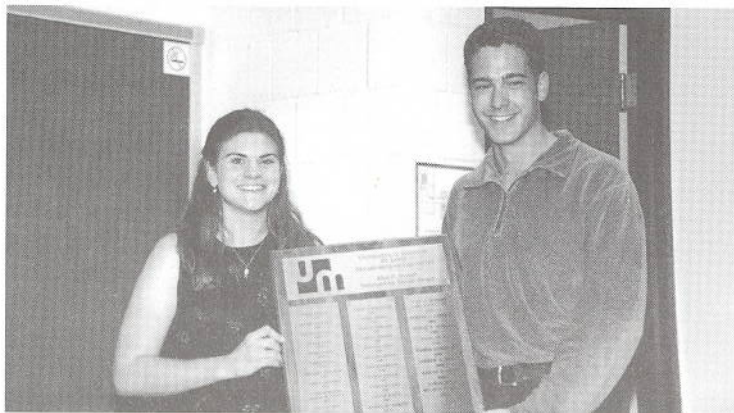
**Joan Raumschuh** BA is Manager, Research in the Brewing Technical Services Department at Anheuser-Busch in St. Louis.

**Pamela K. Rush** Ph.D. last fall took a new position teaching at the Wilmington Math/Science Charter School. We understand she loves it.

### 1986

**Douglas Boyer** BS is with Solvay Fluoride Inc. in East St. Louis. According to **Lee Gori** (BS 1969) Doug is Quality Lab. Manager and his group keeps track of assays and containment of raw materials and products for the company.

**James Roble** BS, (MS 1989) is teaching chemistry and physics at Oakville High School in South St. Louis County.



Joint Alan F. Berndt awardees Melissa Stuchell and Aaron Burns

### 1987

**Stephen Kolodziej** BA (Ph.D. 1993) is in charge of a parallel organic chemistry synthesis group at Monsanto/Searle in Chesterfield, MO.

**William Schmitt** BA (also in physics) was in the department early last fall. Bill obtained a Ph.D. degree in experimental nuclear physics from MIT in 1993 and then did postdoctoral research at the University of Indiana Cyclotron Facility and this was followed by another postdoc at the MIT lab for nuclear science. Since 1998 Bill has been working with a startup internet company, *Webspective Software*, as a Quality Assurance Engineer that was purchased last October by Inktomi Corporation from California.

### 1988

**Barbara Berglund** BA (MS 1990) is now a postdoctoral fellow at Monsanto.

**Greg Bradburn** MS 1988, who also obtained a Ph.D. degree from Washington University, was with Honeywell-Measurex, which has been going through a process of reorganization and downsizing. Though he was not laid-off he did not see the situation as stable and he started looking for other work. He found a position with Amp-Tyco, a manufacturer of components for fiber optics networks as a Senior Test and Reliability Engineer – no longer a chemist/scientist. This position, with its emphasis on optical instrumentation and automation software development, is much closer to his 'ideal' position than the one at Honeywell-Measurex so that while he was not happy to be leaving after such a short time, four months, he was delighted to be moving into this position at Amp-Tyco (Taken from the Washington U. web page in September 29 1999).

**Peggy (Nevels) MacDowell** BS, who received an MS degree in chemistry from Washington University, had been at KV Pharmaceutical Co but recently moved to Mallinckrodt Inc. where she works in the group directed by **Sandy (Aubuchon) Wisneski** (BS 1985) and with **Mark Owens** (BS 1977, MS 1982).

**Karen Wright** BS who has been at *Schaeffer* Manufacturing Co. since graduation was looking for a temporary "supervisor" for the period June to December.

### 1989

**Jim Baker** BS (MS 1993) is a Senior Research Chemist in the Pharmaceuticals Division at Mallinckrodt Inc. in St. Louis.

**William Lesko**, BS (MS 1994) is working at Ralston Purina in the inorganic chemistry laboratory.

**Gary Wester** BA (MS 1992) had been working in Riverton Wyoming but recently agreed to return to St. Louis to work at MEMC in St. Peters MO. He had been teaching introductory organic chemistry at Central Wyoming College in Riverton, WY. Gary's daughter graduated from Vet. School in May and has joined a practice in St. Charles, MO.

**James Wheatley** BS is a Research Support Chemist with Metaphor in St. Louis, where he is the longest-serving employee. Jim is married and he and his wife Jan have a son, Nicholas.

### 1990

**Michael Meisinger** BS (MS 1993) spent several years at Mallinckrodt Inc. in St. Louis but is now considering starting teaching High School chemistry next fall. Mike and his wife have three children of whom they are very proud.

### 1991

**Todd R. Boehlow** BS (Ph.D. 1997) is now a process development chemist with Monsanto/Searle (now Pharmacia) in St. Louis. Todd had done postdoctoral fellowships at the University of Loughborough, in England, and at Montana State University.

### 1992

**Mark H. Crain** BA is with Bodycote Industrial Testing Laboratories in St. Louis as is **Iwok E. Umana** BS 1992.

**Jack Hammer** BA, who received a Ph.D. from Yale University with Ken Wiberg doing both computational and experimental studies of  $^{13}\text{C}$  chemical shifts, now works at Neurogen Corporation in Branford, Connecticut. He is doing computational chemistry at this mid-sized pharmaceutical company, and likes it. He attended the Gordon Research Conference on Quantitative Structure-Activity Relationships in Tilton, New Hampshire last July.

**Ding Rong** Ph.D. is living in Flower Mound Texas near Houston and, we understand, is working in computers.

### 1993

**Michael Schreiner** BS who worked at *Sigma Chemical* during his days as an Evening College student, spent several years with Mallinckrodt Inc. in St. Louis and is now with R and D Laboratories in Washington, Missouri.

**Michelle L. Van Hee** BS continues to work at Monsanto but was dealt a very rough hand recently when her youngest brother, Tom, was killed in an automobile accident. We hope the healing for Michelle and her family has proceeded well and our thoughts are with them.

## 1994

**Courtney Aldrich** BS will graduate this summer with a Ph.D. after five years at UCLA. He has been working with Professor Craig Merlic, mostly involved in total synthesis and recently described the total syntheses of the Calphostins (JACS 2000, 122, 3224-3225). He has also been working on some methodology using chromium carbenes, which should also be out soon in JACS. This fall he will be doing postdoctoral research in Germany at the Max Planck Institute für Physiologie in Dortmund with Professor Herbert Waldmann, who is interested in studying biological phenomena using organic synthesis to synthesize biological probes targeted at understanding cellular signal transduction. He tells us that his interest in Germany stemmed from the chemistry requirement at UMSL of 3 semesters of a foreign language. He chose German because of Germany's great role in chemistry, not to mention the fact that many of the professors such as Dr. Winter and Armbruster were quite fluent. And the German Department at UMSL was outstanding too! He is currently applying for a fellowship from the Humboldt Foundation, which is for foreign Ph.D.'s who wish to study in Germany.

**Sean Dingman** BS received a Teaching Assistant of the Year Award for 1998-99 (one of five) from the Academic Affairs Committee of the Student Union at Washington University. He is finishing his Ph.D. degree work with Dr. Bill Buhro this year.

**Kevin Koeller** Ph.D. continues as a research chemist in Monsanto Corporate Research (now Pharmacia) working under **Bill Neumann** (Ph.D. 1987). Kevin recently purchased a house in Maryland Heights, and we understand he is to be married soon.

**Dennis Kraichely** BA is a molecular biologist in cardiovascular research at Proctor and Gamble Pharmaceuticals in Cincinnati, Ohio. Dennis graduated with a Ph.D. degree from the Department of Pharmacology and Physiology Science at Saint Louis University. After a two-year postdoctoral fellowship at the University of Illinois Champaign-Urbana, he joined Proctor and Gamble earlier this academic year. Dennis, wife Dena and daughter Madison have settled in Fairfield, Ohio.

**Lori Polette** BA 1994 is a student in the Ph.D. program in Materials Science and Engineering at the University of Texas at El Paso. In 1999 she received a patent for phytoremediation, work deriving from her MS degree work at UTEP. She also completed a Ph.D. Coop in Juárez, Mexico, an 8-month assignment where she set up a Materials Analysis Laboratory for Delphi Automotive. She presented a paper at the Southwest/Rocky Mountain Regional Meeting of the ACS in El Paso on "Materials Science in Art and Archeology". In the work she uses synchrotron radiation to analyze Maya blue pigments. Her husband, Dr. Keith Pollette was up for tenure in the English Department at UTEP this year.

## 1995

**Patricia Chernovitz** Ph.D. is an Assistant Professor of Chemistry at Park College in Parkville, Missouri, near Kansas City. We saw Pat at the ACS Midwest Regional Meeting in Quincy, Illinois last fall, where she had taken a group of students.

**Michael Groaning** BA (MS 1997) is a doctoral student at Colorado

State University in organic chemistry working in asymmetric allylsilane chemistry with Professor A. I. Meyers. He received the ACS Organic Chemistry Division Graduate Fellowship, sponsored by Merck, for the 1999-2000 academic year. When we communicated last fall, he was planning to finish this summer and had lined up a postdoctoral fellowship with Erick Carreira at the ETH in Zurich.

**Abdul R. Khan** Ph.D. is now doing postdoctoral research with Mike Welch at Washington University Medical School.

**Michael Pasioka** BS has been at K V Pharmaceutical for over a year now and is considering a move. When we heard from him, he was traveling in the British Isles. He was in Galway and was headed for Dublin. He had visited Jonathan Bould at Leeds University. Mike had met Jonathan when the latter was a postdoc in the Barton lab and Mike was doing undergraduate research. His travels were also to take him to London.

**Bradley J. Rowe** BS, who is a graduate student with Professor Spilling, received a Graduate School Research Fellowship for summer 2000.

## 1996

**Angel Hayakawa**. BS moved home to Mexico City last March and is working as a Plant Manager in a company named 3A LAB, which makes dental products such as flour drops and flour gel. Angel worked at S.A.I. (*Celsis* Laboratories) in St. Louis with **Tracy Schweitzer** BS 1995 and **Mike Pasioka** BS 1995.

**Tim A. S. Marzan** BS is at Mallinckrodt Inc. and also enrolled in our MS degree program.

**Steve (Shengping) Tian** Ph.D. was a postdoctoral fellow at SLU working with Professor Ruh but for the past year he has been at the Howard Hughes Medical Institute at Washington University, working with Dr. Even Sadler. His family now lives in a two-story house in West County that they bought last year. His son has done well in his studies at Parkway North High School and his wife, who earned her MBA from Fontbonne College, helps to pay bills

**Siu Wa Au-Yeung** BA continues as a graduate student at the University of Massachusetts-Lowell. We understand he was on a training program in New Jersey recently.

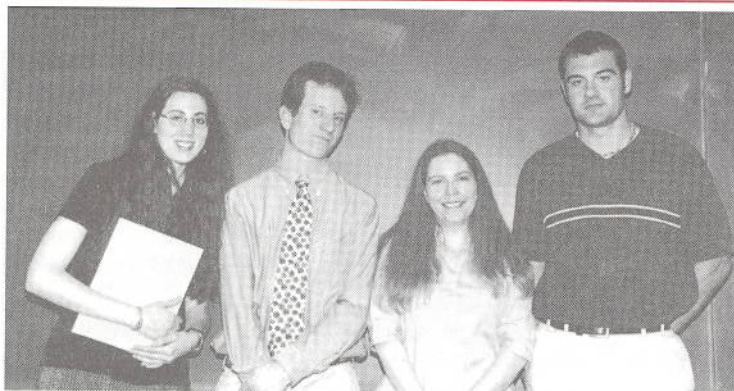
## 1997

**Antonette De La Cruz** Ph.D. continues her postdoctoral research with Professor Doug Covey in the Bioorganic Chemistry Program at Washington University Medical School. We understand she is looking for a teaching position.

**James A. Gray** BS is now working at Genetics Institute, a startup biotechnology company in St. Louis. He is involved in the implementation of a raw materials program there. Jim is now enrolled in the MS degree program here at UM-St. Louis and has been working in Dr. Becker's laboratory.

**Yanina Levchinsky** BS, who married to **Brian Grimmond**, (Ph.D. 2000) last summer is working for Valicor Associates, located in





Undergraduate awardees Katherine Block, Matthew Dunn, Lisa Emery and Erik Hoefgen

Massachusetts, but she is actually working in Connecticut where Brian is doing postdoctoral research with Jack Faller at Yale.

**Yihua Liao** MS is in the Ares Advanced Technology group, working for the Ares-Serono Group in Boston.

**Yu Lin** Ph.D. was in the department earlier on this year and was about to move to *Merck* in New Jersey where he was to be a Bioinformatics Scientist managing the database for the gene sequencing bank at the company. Lin had been working at *Convergys* in St. Louis as a database specialist. He did his doctoral work in the department with Professor Welsh.

**Xaiopeng (Steve) Sang** MS is working at Bristol-Meyers Squibb in Connecticut.

**Rafaat Shaltout** Ph.D. is leaving Sandia in another week to join a law firm in Chicago.

**Jeffrey Scholten** BS continues to work at Monsanto and participate in the MS degree program in chemistry in the department. Jeff also participated in the ACS Career Day, which was chaired by Dr. Barton this year.

## 1998

**Ann (Cafferty) Tournbaugh** Ph.D. continues with *InterBio* in Houston and is now the Technical Services Manager (4<sup>th</sup> title in 1 year!). This incorporates global support to the sales force on the institutional side of the business. The products she deals with digest/degrade grease in traps (e.g. McDonalds), drain lines, odor control products etc. Ann is involved from the fermentation end through working out the regulations of the Marketplace to representing the company to the customers. When we heard from her, she was set to travel to the UK, Poland and Italy. Ann and Joe became parents this year of daughter Katherine Elizabeth.

## 1999

**J. Michael Bills** BA had been working at Washington University Medical School but earlier this year he informed us that he was taking a position with Proctor and Gamble at the Miami Valley Laboratories near Cincinnati. His job was in R & D and would involve NMR spectroscopy.

**Yahia Hamada** Ph.D. has been teaching chemistry at St. Cloud State University in St. Cloud, Minnesota this past year and will do the same at Hendrix College in Pine Bluff Arkansas next year. Yahia was married this past year and he and his wife are expecting their first child.

**Martin Hayes** BS is in the Ph.D. program at MIT working with Rick Danheiser on a Ford Foundation Fellowship. He just completed a very successful first year of coursework and cumulative examinations. His research work will involve some aspect of pericyclic reactions including intramolecular [4+2] cycloadditions with enediynes especially benzyne systems and ketene cycloaddition reactions, some of which lead to functionalized cyclopentenones. He would prefer his project to be a total synthesis and has been spending most of his time optimizing a couple of steps in ongoing total synthesis projects and exploring various substrates for previously published methodologies. Martin was married on May 14 at the Botanical Gardens to Antoinette Morris who was scheduled to graduate in biology here in W-2000.

**Mike Johnson** BS who has been with Meridian Chemical since graduation, was interviewed last fall by *Chemical and Engineering News* for their Employment Outlook issue. We recently heard that Mike started a new position with Genetics Institute (a unit of Wyeth-Ayerst) on July 17th. His job involves raw materials analysis, method validation, some stability studies, and qualifications of new equipment. His new title is QC Associate I. Thus he joined his former colleague from the FDA and Meridian **Jim Gray** (BS 1997).

**Juan Mareque Rivas** Ph.D., who completed his degree with Professor Brammer, and went on to do postdoctoral research at M.I.T. with Professor Steven Lippard, has been appointed to a faculty position at the University of Edinburgh, Scotland, one of the oldest and most prestigious universities in Britain.

**Anjanette Smith** BS has been working at the National Center for Drug Analysis in St. Louis since the summer of 1999.

**Linda Sutterlin** BS is working at Ralston-Purina in St. Louis. She was married to Christopher Guion on June 17, 2000.

**Jennifer Moser** BS is at Mallinckrodt Inc. in downtown St. Louis doing analytical chemistry. She and Linda Sutterlin attended the Distinguished Alumni Lecture in May 2000.

**Robert Stockland** Ph.D. who received his degree working with Dr. Anderson is a postdoctoral fellow at the University of Chicago with Richard Jordan and will start a faculty appointment at Bucknell University in Lewisburg Pennsylvania in the fall. He was married to Barbara Ann Wettring on July 21.

## 2000

**Brian Kirkpatrick** BS is working at Mallinckrodt Inc. in St. Louis.

**Joe Ocheskey** BS is working at the Washington University Medical School in the Mallinckrodt Institute of Radiology.

**Zhenping Wang** Ph.D. is doing postdoctoral research at Vanderbilt University in Nashville, Tennessee.

## Graduates, Aug. 1999 through May 2000

## AUGUST 1999

Michelle Sharpe, BA  
Peter Forgo, Ph.D.  
Yanina Levchinsky, MS

Ying Dong, Ph.D.  
Brian Grimmond, Ph.D.

## DECEMBER 1999

Donna Andrauskas, Ph.D.  
Ricardo Delgado, Ph.D.  
Carolyn K. Gregg BA  
Brian S. Kirkpatrick, BS  
Joe Ochesky, BS  
Jyothi Swathi, MS  
Zhenping Wang, Ph.D.  
Erik D. Williams BA

Malcolm Arendse, Ph.D.  
Andrew Granda, BS  
Peter Kim BA  
Guy Macedo, BS  
Axia Sun MS  
Jin Wang, MS  
Paul Webb, Ph.D.

## MAY 2000

Brian Abney, MS  
David Behlmann, BA  
Vycky Ferrario, MS  
Tuan Q. Le, BS  
Jessica Ricca, BS  
Jonathan Stayton BA,  
Elizabeth Thomas, MS

Aaron Burns BS  
Daniel Coleman, BA  
James Laird, BA  
Larry Maston, BS  
Colin Rodger, MS  
Mellissa Stuchell, BS

## The Faculty

**Gordon K. Anderson** won the 2000 St. Louis Award of the St. Louis Section of the American Chemical Society. The award was presented at the St. Louis Award Banquet on April 15, and it was preceded, on the previous day by the St. Louis Award Symposium which was held on the campus. Details are given elsewhere. Malcolm Arendse and Ricardo Delgado earned Ph.D. degrees under Dr. Anderson's direction in January 2000. Malcolm is a faculty member at the University of the Western Cape, in South Africa, and he and Dr. Anderson continue their research collaboration through the UM-UWC exchange program. Dr. Anderson is going to the International Conference on Coordination Chemistry in Edinburgh this summer. 2000 is his third year on the Editorial Board of the journal *Organometallics*.

**Lawrence Barton** continues to accommodate himself to his new role in the department. His research program still goes well although it has slowed down somewhat as he has had bad luck in attempts to hire a postdoctoral fellow. He received grants this year from the National Science Foundation and the Missouri Research Board and is recruiting two postdocs at the moment. He has been busy with ACS St. Louis Section activities recently. He presented a paper at the ACS meeting in San Francisco and is currently preparing his talk for the Seventh Boron-USA Workshop to be held in Pittsburgh, in June. Two papers appeared in *Inorganic Chemistry* within the past six months and two others will appear in a special publication of the Royal Society of Chemistry. He serves a member of the ACS Council, which meets twice per year in at National Meetings, and also on the Local Section Activities Committee, a very busy one. He chaired the St. Louis Award Symposium and

High School Career Day but the highlights of the first half of 2000 were his introducing Gordon Anderson at the St. Louis Award Banquet and Ted Windsor at Awards night. He is also Exposition Chair for the Oct 2000 ACS Midwest Regional Meeting in St. Louis. He was recently elected Chair of the new UM-St. Louis Faculty Senate and University Assembly and those activities promise to occupy much of his time in the next year. He will take a week off at the end of July to drive to Wyoming with grandson Kyle to visit Hilary his daughter and her husband the famous author Jon Billman.

**Donald F. Becker** has just completed his second year here. His research group consisted of three graduate students and two undergraduates this year although the undergraduates just graduated. He received a grant from the Research Corporation last year for \$34,500 to support the project: "Insights into a novel flavoprotein and redox sensitive gene regulation". He also received a grant from the Missouri Research Board for the project, "The Dual Functions Of PutA In *Escherichia Coli*". Don's main research focus is on the multifunctional PutA protein from *Escherichia coli*. This remarkable protein is both a DNA-binding protein and a membrane-bound proline catabolic enzyme. Don studies the interactions of PutA with the DNA and the membrane using electrochemistry, UV-visible and fluorescence spectroscopy, and molecular biology methods. His first paper on his research at UM-St. Louis has just been submitted for publication. A co-author on the paper will be Elizabeth Thomas, a second year student in Don's laboratory. This summer, he will be attending the *Enzymes, Coenzymes, and Metabolic Pathways* Gordon Research Conference in July at Kimball Union Academy in New Hampshire. He will also serve as the chair of the biochemistry section at the ACS-regional meeting in St. Louis this fall. He has started to redesign the Biochemistry 373 laboratory course. His goal is to expand the breadth of techniques offered in the course but still retain protein purification and enzyme kinetics as the main emphasis. For example, during last semester students were able to gain experience in molecular biology techniques by generating a restriction enzyme map of an unknown piece of DNA. Don will continue to incorporate new techniques into the laboratory curriculum that are fundamental in the life science industries.

**Lee Brammer** presently has three graduate students and one undergraduate students working in his lab in the area of supramolecular chemistry and in particular the applications of hydrogen bonding in inorganic chemistry. The work on hydrogen bonding recently received \$324,000 in funding for the next three years from the National Science Foundation. Former Ph.D. student, Juan Mareque Rivas, who made a major contribution to the research, has recently been appointed to a independent faculty position at the University of Edinburgh in Scotland, where he will begin as Lecturer in Inorganic Chemistry in Fall, 2000. Dr. Brammer continues to serve as a co-editor for the journal *Acta Crystallographica* and as an elected member of the US National Committee for Crystallography. He was recently elected as Secretary of the American Crystallographic Association, a 2,000-member professional organization for the field of crystallography. He was also elected to the international advisory board of the new Royal Society of Chemistry journal on Crystal Engineering, *CrystEngComm*, and has been involved in organizing an international meeting on inorganic crystal engineering to take place in Bologna, Italy in September, 2000. Within the department he is strongly involved in issues of graduate student recruiting and

admissions as well as helping to coordinate operation of the X-ray facility in conjunction with departmental crystallographer, Dr. Nigam Rath.

**James S. Chickos** spent the last two weeks of the last millenium and the first week in the new millenium in Israel at Ben Gurion University of the Negev with Professor Joel Bernstein on a joint Binational Science Foundation Grant. His student Paul Webb graduated last summer and he currently has two graduate students in his laboratory. In February he and a collaborator Richard Heinz, with another colleague taught a course on Flavor Chemistry to a truly international group from 3 continents. Jim has been doing quite some cycling recently. Last Labor Day he and Dave Garin cycled to St. Genevieve and back and later this summer they will be cycling in Nova Scotia.

**Joyce Y. Corey** will be serving on a 3-person panel to describe opportunities for women in industry, government and academia at the 32<sup>nd</sup> Great Lakes Regional Meeting of the ACS in Fargo, North Dakota. The organizers wanted to have the panel members (all women) to be successful alumnae from the University of North Dakota or North Dakota State University. She obviously represents academia. She will be going to the Organometallics Gordon Conference in July/August in New Hampshire. Her research continues to go well; she currently has three graduate students and an undergraduate working in her research group and been developing projects in the transition metal-catalyzed hydrosilation of carbonyl compounds in addition to her ground-breaking work in transition metal-catalyzed dehydrocoupling of silanes. The big news was that in July it was announced that she had been awarded the 2000 Midwest Award of the American Chemical Society.

**Valerian T. D'Souza** has just completed quite a productive year in which he published 8 papers. The article that appeared last year in *Chemical Reviews* has been very well received. He was invited to give the opening lecture at the Tenth International Cyclodextrin Symposium in May and also at the Missouri Organic Day in April in Columbia. He also recently gave a seminar at Wichita State University. He has physically moved his office from Benton Hall to a cubicle in the research lab and expects to contribute to an increase in research productivity in the near future.

**Harold H. Harris** continues to write his monthly "Hal's Picks" for his monthly column. "Hal's Picks", which is part of the *Journal of Chemical Education's* "Chemical Education Resource Shelf" has been recognized by *School Zone* as a "highly commended" resource for teachers of science. *School Zone* is the most popular science education Web resource in the United Kingdom. You can see what Hal is picking these days, at <http://www.umsu.edu/~chemist/books>. There are now indices to his subjects by author, title, and category on the site. His suggestion for summer reading for chemistry educators appears in the June issue of the *Journal*. "Hands On Plastics", a scientific investigation kit intended for middle schools, was co-authored by Hal and his wife, Mary, amongst others. It has now been distributed to well over 30,000 schools in the US and Canada, under the sponsorship of the American Plastics Council. Distribution is now supported by a nice Web site that you can find at <http://www.handsonplastics.com>. This summer, Hal is running a series of workshops for area high school physics teachers, under a grant from the Missouri Coordinating Board for Higher Education. The workshops will be held at Clayton High School and feature the

Modeling Physics philosophy pioneered by Professor David Hestenes at Arizona State University.

**Wesley R. Harris** had two doctoral students finish this past year, Yahia Hamada (May 1999) and Zhepeng Wang (Dec 1999) but he has already taken steps to fill the void in his lab by obtaining a new grant, funded as part of a special program at NIH on the development of new therapies for treating iron overload. The project: "Accelerating Iron Chelation from Serum Transferrin" has Dr. Harris as the PI with Co-PIs Bill Welsh, Chris Spilling and Ross MacGillivray (U. British Columbia) and is for \$936, 452 for four years. Dr. Harris went to the Gordon Research Conference on *Metals in Biology* in Ventura CA in January and in July he is going to a conference in Washington DC sponsored by the National Institutes of Health on *Metals in Medicine*. Like his colleagues with whom he shares a St. Louis Blues season ticket (Chickos and Barton) he is disappointed that the Blues didn't make it past the first round of the playoffs.

**Dr. David W. Larsen** decided to accept the early retirement offer made available to all faculty members over 55. Thus after 36 years at UM-St. Louis, he will formally retire this August. He will return to do some teaching in the department for a couple of years. He will continue his research that is still directed to development and commercialization of gasification of hazardous wastes: the so-called Chem-Char process developed in collaboration with Stan Manahan of UM-Columbia. Another activity with which he has been involved with is the development of a new type of mass spectrometer in collaboration with Bill Frazier, a former mass spectrometrists at Monsanto.



*Drs Puddephatt, Anderson, Bleeke, Eisenberg, Friedman, Barton, Davies and Stanley enjoy the post St. Louis Award Symposium dinner.*

**James J. O'Brien's** research, funded by NASA, continues but he is considering changing some of his research emphases since funding in physical chemistry is very tight at the moment. Jim is active in the St. Louis Section of the American Chemical Society. He recently returned from a vacation in which he toured the Irish Republic with his family.

**F. Christopher Pigge's** research group, now including three Ph.D. students, had two undergraduate students participate in research this past year. He presented papers at both ACS National Meetings last year. His research program involves the use of organoruthenium reagents in organic synthesis and also molecular self-assembly. He taught an organic chemistry special topics course in the fall entitled "Organometallic chemistry in the synthesis of complex organic molecules." In the spring he taught Chem. 261, the first organic chemistry course for science majors.

**Nigam P. Rath** has been successful in raising funding from the UMSL Research Awards grants for various upgrades to the X-ray diffraction laboratory. The x-ray laboratory is collecting more than 200 data sets per year. Major efforts are underway to upgrade the area detector to the next generation larger, more sensitive detector. He is still looking for collaborators from academic and industrial chemists to increase the output of the diffraction laboratory. Data collection and structure solution of a lot of interesting compounds, summer teaching and building a new home kept him busy during last year. Nigam and his family recently moved into a new home in Maryland Heights, after being homeless for a few days in the process of selling their old home and moving into the new home.

**Christopher D. Spilling** is General Chairman of the 35<sup>th</sup> Regional Meeting of the American Chemical Society to be held in St. Louis in October. He and his group (postdoc Jon Harburn, and graduate students Brad Rowe Luis Llamas and Anchalee Thanavaro) attended the ACS Midwest Regional Meeting in Quincy Illinois last October and gave a total of five posters and presentations. He also attended the ACS National meeting in San Francisco in August with wife Kathy and sons Andrew, Robert and William. Chris recently joined forces with Wes Harris and Bill Welsh to study iron removal in a project funded by the NIH.

**Keith Stine** continues with a number of activities. His second doctoral student, Donna M. Andrauskas, completed her dissertation and graduated with a Ph.D. in January. He is currently Program Chair for the upcoming Midwest Regional Meeting of the American chemical Society October in St. Louis. He chaired the St. Louis Award for the Local Section of the ACS this year, a difficult job which he handled very well. At present, he is Chair of the Departmental Undergraduate Studies Committee. He recently submitted a very long chapter on Langmuir-Blodgett Films for the upcoming book 'Nano-Surface Chemistry' and is about to submit a chapter on 'Chirality in Monolayers' for the upcoming 'Encyclopedia of Surface and Colloid Science'.

**William J. Welsh** continues his active research program in computational chemistry and currently has the most external research funding in the department. Both federal funding agencies and industrial sources have supported research in several key areas, including the computer-aided design and synthesis of HIV-1 protease inhibitors for combating AIDS, of non-steroidal analgesic and anti-inflammatory agents, and of estrogen-like drugs for treating diseases such as breast cancer, osteoporosis, and Alzheimer's disease. This body of work has led to several patent applications and disclosures this year. He and his research team, consisting of seven graduate students and five postdoctoral research associates, delivered a total of 12 oral and poster presentations at the national ACS meeting held in San Francisco this past March. Bill and his wife Sue just returned from a vacation in her homeland England. They spent time on the Devon coast and also did some hiking in the Cotswolds.

**Janet Braddock-Wilking** (BA. 1985) continues to divide her time between running the NMR Facility, running her own research program and doing some occasional teaching. She gave a talk at 33<sup>rd</sup> Organosilicon Symposium in April 2000 in Saginaw Michigan, published two papers and has two more about to be submitted and she has applied for funding from the NSF and the PRF. Her MS student Yanina Levchinsky graduated last summer and Janet has just one undergraduate doing research during W2000 and S2000.

She trained a new NMR teaching assistant, Kevin Trankler, during summer 1999 and was awarded, jointly with Dr. Spilling, grants from the NSF and UM-Research Board for an upgrade of the Varian XL-300 NMR spectrometer. They have visited instrument manufacturers and hosted presentations from representatives during the past year. She and husband Bruce recently returned from Bordeaux, France, where Bruce, Professor of Physics, has a collaborator

**Rudolph E. K. Winter** received the **Governor's Award for Excellence in Teaching** for 1999. He tells us that he successfully resisted efforts to get him to take early retirement, but we know he is kidding. We didn't even try! He continues to generate excellent data on the new mass spectrometer and has been particularly helpful to the editor and his graduate student in this respect.

**Zhi Xu** was promoted to Associate Professor with tenure this spring. During the past year he published research papers in *Langmuir*, *Analytica Chimica Acta*, and *Surface Science*. He was invited to write a review article about his research in nonlinear optics by *Recent Research and Development in Physical Chemistry*. The article entitled "Nonlinear Optical Generation at Interfaces" appeared this spring. He is currently building a two-stage dye laser system for the study of two-photon absorption and optical storage by organic molecules. His first doctoral student, Ying Dong graduated last August.

### M. Thomas Jones 1936 - 2000

M. Thomas Jones died of cancer on January 14, 2000. Tom received his undergraduate and graduate degrees from Washington University where his thesis research was done under the direction of Professor Sam Weissman. He went on to develop a successful research career in electron spin resonance, first at Dupont Central Research Department (1961-66), later as a faculty member at St. Louis University (1966-69) and he spent from 1969-1990 at the University of Missouri-St. Louis. At UM-St. Louis, in addition to his position as Professor of Chemistry, he served in various administrative capacities including Associate Dean and Acting Dean of the College of Arts and Sciences, Interim Associate Vice Chancellor for Academic Affairs and Deputy Chancellor. In 1990 he left St. Louis to become Deputy President at the University of Houston with Marguerite Ross Barnett. He later served as Associate Vice President for Research at Houston and moved five years ago to Kent State University, to become Vice Provost and Dean of Research and Graduate Studies. In addition he held visiting professorships at the Universities of Sheffield and Groningen. At UM-St. Louis he was founder of the Center for Molecular Electronics but left before the funding for which he had worked so hard came through. Eventually the Center was constructed and equipped with funds from a grant from the Department of Energy. Tom was also heavily involved in the design and planning for the Research Building, completed at UM-St. Louis in 1988. A plaque in his memory has been installed in the building. During his research career he published more than 110 research papers on electron spin resonance and synthetic metals chemistry, and his work was supported by grants from the National Science Foundation. Tom was very active in the St. Louis Section of the American Chemical Society between 1969 and 1990. He served as Section Chair in 1978, Secretary in 1973 and 1974, and also served as Councilor from 1981 until he left the area in 1990.

He won the St Louis Award in 1983. Tom was 63. He is survived by his wife Patricia, parents Margaret and Thomas Jones of Mexico, Missouri, children Jonathan of St. Louis and Jennifer of Redwood City California and a sister Janice Green of Springfield, Virginia. We have established a fund in his honor, the M. Thomas Jones Memorial Fund, which his wife Pat asked be used to support graduate students. Details are found later on in this issue.

### Former Faculty Colleagues

**Charles W. Armbruster** served on the faculty from 1962 until 1992. He built the department and set it on the course which led to the successes we see today. Charlie hired all the current faculty members who were not hired by the editor. He moved two years ago to Orlando, Florida and we understand he planned to do some part-time teaching there.

**Kenneth W. Barnett** has been with Ashland Chemical Company, since he left UM-St. Louis and he live in Worthington, Ohio, a suburb of Columbus. Ken served on the faculty from 1970 until 1979. His early career at Ashland was as a group leader in the discovery research area and now we understand he is involved in the Safety Program. We hear from Ken at Christmas time. His wife Pat is a teacher as is son Chris and daughter Lisa is a successful actress.

**Eric Block** is Professor of Chemistry at the State University of New York at Albany where he was chair of the department for about six years in the late 1980s. He spent the 2000 spring semester on sabbatical leave as Michael Visiting Professor of Chemistry at the Weizmann Institute in Rehovot, Israel where he pursued collaborative research on, what else, garlic chemistry. While in the Middle East he gave seminars at several Israeli universities, delivered a Keynote Lecture at the annual meeting of the Israel Chemical Society, and presented invited lectures at international meetings in Alexandria, Egypt and Irbid, Jordan. Among the highlights of his travels were visits to the garlic and onion market in Cairo, where he observed immense stacks of garlic, a trip to the pyramids of Sakkara where he viewed 5000 year old stone carvings of onions, and a cruise down the Nile where he found that methods of cultivation of garlic and onion has not changed much since the time of the Pharaohs. In the coming months Dr. Block will give lectures at international conferences on selenium chemistry in Sao Pedro, Brazil. and on garlic and onion chemistry in San Jose, California (in conjunction with the 2000 Gilroy Garlic Festival) and in Athens, Georgia. Research presented at these meetings appears in papers published in the May 31, 2000 issue of the Journal of the American Chemical Society and in the June 2000 issue of the Journal of Agricultural and Food Chemistry. Dr. Block would enjoy hearing from former students from his years in St. Louis and can be reached by e-mail at [eb801@csc.albany.edu](mailto:eb801@csc.albany.edu) and on the web at <http://www.albany.edu/chemistry/block.html>. Eric served on the faculty from 1967 until 1981.

**Dennis Diestler** left UM-St. Louis to join the faculty at Purdue University in 1969. An interesting feature is that former colleague Jim Riehl was Diestler's first graduate student at Purdue. After a successful career at Purdue doing theoretical chemistry, Dennis retired and moved to Lincoln Nebraska where he and his wife lived for several years. She had retired from her position as a social scientist at Purdue. In Lincoln Dennis has been doing research and

raising research grants for his soil research in association with the University of Nebraska, Lincoln. He was in the department recently to visit his friend and former classmate at Caltech, Joe Dence. Dennis served on the faculty from 1967 until 1969. We were very sorry to hear that his wife passed away earlier this year.

**David L. Garin** taught introductory and organic chemistry this past academic year but he will be taking the fall off. He continues teach although he took formal retirement last year. In fact he received funding from an NSF program to study the use of workshops in chemistry courses, comparing the efficiency and success of peer (undergraduate) facilitators to that of graduate students. Garin will present the results of this year's efforts at the 16th Biennial Conference on Chemical Education in Ann Arbor in August. Immediately thereafter, he will be on a bicycle trip in Nova Scotia with Jim Chickos.

**Marcel Halberstadt** has not been in touch with us for many years. After he left UM-St. Louis he did research at Bendix Laboratories in Detroit before becoming the Director of Research for the Automobile Dealers of America. He treated the editor to dinner at an ACS meeting in Washington, DC in the early 1990s. Marcel served on the faculty from 1965 until 1971

**Jane A. Miller** who retired in 1992 during an early retirement initiative leads a very active life. This year she has traveled to Italy, Eastern Europe, England, France and Bali. For years she served on the University City Library Board but her civic activities are currently directed towards traffic. She serves on the U. City Traffic Commission. Jane has been very active in the Life Long Learning Institute, a Washington University spin-off of Elderhostel. She has taken courses in music, the history of St. Louis and Astronomy and has taught a course in Alchemy. We shared a table at the recent Chancellor's Report to the Community. Jane served on the faculty from 1965 until 1992.

**Robert W. Murray** continues his research program but has recently begun to give away some of the chemicals in his laboratory to colleagues in the department. His postdoctoral fellow Megh Singh is now working at Monsanto although he and Murray continue to write up their research papers.

**Robert E. Penn** served on the faculty from 1992 until 1980. In 1980 he joined Dupont as a research chemist in the Polymers and Plastics Division. When we visited Bob and Melinda in the mid-1980s he was an avid wind surfer, doing it on the Delaware River. He moved to Geneva, Switzerland and spent several years there for the company before returning to Wilmington a couple of years ago. We understand he is still with Dupont and doing well.

**James P Riehl** who was on the Chemistry faculty from 1977 to 1993 is finishing his second term as Chairman of the Department of Chemistry at Michigan Technological University in Houghton Michigan. He has recently accepted a position as Dean of the College of Science and Engineering at the University of Minnesota Duluth where he intends to continue his research program in the spectroscopy of lanthanide complexes. Jim has continued a strong international connection in his research program, and is currently involved in active collaborations with research groups in Wroclaw, Poland, Durham England, and Lausanne Switzerland. Jim served on the faculty from 1977 until 1993.

**Robert A. Rouse** has been with Washington University in various aspects of computing since he left UM-St. Louis. Bob and his wife Joy were on campus for the event held in memory of Tom Jones in February. Bob served on the faculty from 1969 until 1976.

**John A. Schriefels** has been Associate Professor of Chemistry at George Mason University in Fairfax, Virginia for 12 years. He has developed computerized testing techniques for freshman chemistry students. Students are able to take quizzes and exams more than once to improve their grades. He plans to add biometrics (fingerprint scanning) to insure that the correct students are taking the exams and quizzes. In research, he has been working on the adsorption of molecules on well-defined surfaces. He developed a simple technique to acquire approximately a 50 fold increase in data during a temperature programmed desorption (TPD) experiment. He can now study the decomposition of relatively complicated molecules on a surface. He found that a molecule (an additive for jet fuel) with a molecular mass of 282 decomposed into fragments, which reassembled to give a 3 other molecules – one with a molecular mass of 292. He plans trying to use standard organic derivatizing agents to trap some intermediates on surfaces when molecules fragment and then use the improved technique to detect them. On the family front daughter Karen is graduating this year and will be starting college this fall and Jenny is a freshman in high school. John and Diane live on a small farm with horses, rabbits, dogs, and cats, about 30 miles from campus and they love it. John served on the faculty from 1981 until 1988.

**Michael Sworin** joined the Central Research Department at Dupont in Wilmington DE when he left the department but we understand he is now at the Dupont-Merck Facility in Boston, what was formerly New England Nuclear. Mike served on the faculty from 1982 until 1989.

**Stuart W. Weidmann**, after leaving UM-St. Louis spent time as a research professor at Washington University School of Medicine and later held a similar position at the University of Tennessee Medical Sciences Center in Memphis. The last part of his career was spent running a research group at Rush Medical School in Chicago. He retired about five years ago after undergoing heart surgery. He and his wife Marylyn come to St. Louis on occasion to visit their children. They had lunch with the Bartons earlier this year after having spent a couple of weeks on a Mediterranean cruise. Stuart served on the faculty from 1965 until 1969.

Of course we miss our colleagues who passed away, **Alan F. Berndt** who died in 1984 and had served on the faculty since 1865, **Eric G. Brunngraber** who died in 1987 and had been associated with the department since the late 1970s and **Eugene R. Corey** who died in 1988 and served on the faculty since 1968.

### Adjunct Faculty

**Joseph Dence** continues to make the department his home and teach freshman and physical chemistry. This year he has taught Chem. 12 and introduced new experiments into the lab portion of the course. He continues to offer private tuition in chemistry, physics and mathematics, something he has done for more than 20 years. He also teaches some math courses at UM-St. Louis and continues to publish papers in number theory; one paper already came out this year and another is in press. His text on number

theory, which appeared in January 1999, has done very well. Joe is at work on his 8<sup>th</sup> book: a senior-level text on advanced calculus.

**Donna Friedman** who received her Ph.D. degree here in 1980 and did postdoctoral research at Ohio State University has been at Florissant Valley Community College since then. Donna is a Councilor for the ACS and is very active in the Society. She has taught Quantitative Analysis for us in recent years.



*New department Administrative Assistant Charmaine Henson*

**John Gutweiler** continues teach part-time in the department and will soon be reaching his 30<sup>th</sup> year in this role.

**Fatemah Ghasedi** BS 1983 (MS 1989) has been teaching one of the organic chemistry courses this summer. As mentioned elsewhere, Fatemah is in our Ph.D. program and teaches at East Central College in Union, MO

**Jon Harborn** has been teaching for us recently. He does postdoctoral research with Dr. Spilling and received his Ph.D. degree at the University of Loughborough with the same advisor as Spilling (Brian Marples). His undergraduate degree, interestingly, is the University of Central Lancashire where the editor taught physics part-time when it was a technical college in the early 1960s.

**William Neumann** (Ph.D. 1987) has become one of the most popular among the adjunct departmental teaching staff. Bill continues to work with Pharmacia, formerly Monsanto, and now has additional supervisory responsibilities in Corporate Research.

**Joseph B. Monahan** has been splitting the teaching of biochemistry in the evening with Wil Ridley since 1998. Joe replaced Dan Connolly who, in turn, placed our long-time colleague Joe Feder. Joe Monahan is at Monsanto and received his Ph.D. degree from the University of South Carolina.

**Robert Orth**, another regular in the department, has taught physical and introductory chemistry for many years. He also has been very helpful to us in his area of specialty, mass spectrometry and has been a resource to Dr. Winter and Joe Kramer.

**Raghavan Rajagopalan** continues to teach organic chemistry in the evenings for us, on and off as the schedule allows. Raghavan continues at Mallinckrodt Inc. in St. Louis.

**Wil Ridley** is the other half of the duo teaching biochemistry for us in the evenings. Wil also is with Monsanto.

## The Staff

**Glenda Gillespie** left the department on June 1, 2000 to take a position in the Sociology Department. She indicated that she would feel more comfortable in a smaller department. Glenda was very popular indeed in the department and we were all so sorry to see her leave. She fitted in so well and appeared to get along with everyone so well. We certainly wish her much success in her new position.

**Charmiane Henson** joined the staff as Administrative Assistant in May 2000. She previously worked for four years as an Administrative Assistant in Monsanto's Chemical Sciences Department with, among others, **Bill Neumann** (Ph.D. 1987). After a couple of years as a secretary for one of Washington University Medical Schools' Computing Facilities departments and a short stay with Alumni Relations here at UM-St Louis, she is looking forward to working with scientists again. She is a lifelong North County resident and currently lives in Florissant. For those St Louis natives who are wondering where she went to high school-she graduated from McCluer (but would rather not say what year!)

**Nichole Jacobs** replaced Lisa Hoguet last September but left this spring to work closer to her home in South County. Nichole has previously lived and worked in Idaho.

**Gordon Kerschmann** is looking forward to the installation of the new 300 MHz NMR spectrometer early this fall. He has taken over Joe Kramer's secondary responsibility for department instrument maintenance so he could concentrate on Mass-Spectroscopy full time.

**Joe Kramer** spent time this past year fixing up a baby's nursery in anticipation of the birth of his and Donna's child. Another aspect of the preparation for the birth was a trip to Colorado including a ride up Pike's Peak on the cog railway. Joe continues to work on the new mass spectrometer and he and Dr. Winter just decided to purchase a new balance for the facility.

**Donna Kramer** gave birth to her first child, daughter Jessica Belle Kramer, born April 15, 2000 – 6lbs 12 oz. Donna has been at home since then but expects to return to work in July. During her absence Jonathan Stayton who just graduated has been running the store. Donna has been promoted to Laboratory Coordinator, effective when she returns to work.

**Frank May** organized a Missouri Ozark Riverways Operation Clean Stream trip on which the Bartons went. It was on the Meramec River and a great time was had by all. We look forward to this year's event at the end of August.

**Pat Mayberry** joined the staff as front office secretary at the end of June. She worked previously in the Ferguson-Florissant and Hazelwood school district and most interestingly was in the same graduating class at McCluer High School as Charmaine Henson although they didn't discover that fact until she joined the staff here.

**Ken Owen's** (BS 1980) glassblowing skills continue to grow. With recent shop upgrades he is now able to build substantially larger and more complicated equipment including diffusion pumps and jacketed kettle reactors. His involvement with the professional glassblower's society, the ASGS, continues to expand. During this

last year he was appointed Chair of the society's Questions and Answers Committee. As such, Ken fields technical questions from ASGS members and publishes an on-going column in the society's journal "FUSION". Ken was also elected Vice Chair of the Midwest Section of the ASGS.



*New department Secretary Pat Mayberry*

**Randa Schneider** left in December 1999 after spending 18 years at the department. She and her husband Mike moved to Quincy, Illinois, when Mike took a new position as associate director of clinical services at Chaddock - a residential treatment facility for juvenile. Quincy is where Randa's family now resides and she and Mike met while at Quincy College so this is somewhat a homecoming for her. Randa would like to keep in touch with former students and friends. Her email address is: randa@adams.net

**Ted Windsor** abhors the limelight but this year he couldn't avoid it as we nominated him for the ACS St. Louis Section, Technician of the Year Award, and he won of course. He was presented with a plaque and a modest honorarium during Chemical Progress Week in April.

## The Robert W. Murray Lectureship

We continue to appeal for contributions to the fund that supports the **Robert W. Murray Lectureship**. Many of you have heard from us on this subject. We have reached about 65% of our goal of raising at least \$50,000. Thus we are looking for some rather substantial contributions from alumni, faculty colleagues, other faculty and administrators on the campus and colleagues of Dr. Murray in his field. If you have already made a contribution, perhaps you would consider making another one. If you find these requests to be too much, all at once, perhaps a commitment to contribute over an extended period would better suit your situation. The Third Annual Robert W. Murray Lectureship was held on April 3, 2000. Professor Harry H. Wasserman, of Yale University, Eugene Higgins Professor Emeritus and Senior Research Scientist spoke on "The Chemistry of Vicinal Tricarbonyl Compounds. Applications in the Synthesis of Bioactive Products." After the lecture a reception, attended by about 40 people, was held at the Alumni Center.

## The St. Louis Award Symposium.

This event was a major one for the St. Louis Section and also a major celebration in the department. Sponsored by the St. Louis

Section of the American Chemical Society, it was held in honor of the 2000 recipient, Professor Gordon K. Anderson, University of Missouri-St. Louis on Friday April 14, 2:00 – 5:00 in room B451, Benton Hall. The program was as follows:

2.00 Introductions by Drs Barton, Bellavance and Anderson.

2.05 Dr. Richard J. Puddephatt, Professor of Chemistry at the University of Western Ontario: *Bimetallic Catalysts and Model Complexes*.

2.45 Dr. Richard S. Eisenberg, Tracy Harris Professor of Chemistry at the University of Rochester: *Platinum Group Metal Complexes: New Twists and Turns*

3.40 Dr. Julian A. Davies, Distinguished University Professor of Chemistry at the University of Toledo: *Chemistry of heteroatom-substituted alkynes on binuclear metal frameworks*.

4.20 Dr. George G. Stanley, Philip W. & Foymae Kelso West Distinguished Professor of Chemistry at Louisiana State University: *Bimetallic Cooperativity in Homogeneous Catalysis*.

A reception followed the symposium at the Chancellor's residence. About 65 people attended the symposium and about 35 attended the reception. The whole affair was judged to be a major success by participants and attendees. Dr Anderson was presented with the award by Section Chair, Dr. Pauline L. Bellavance, at the St. Louis Award banquet at Kemoll's Restaurant on the following day. Dr. Anderson presented the award address and Dr. Barton introduced him.

### The Lawrence Barton Scholarship

This new award was established earlier this year on the occasion of the reception honoring the editor's 18 years as department chair. Although we were very successful and raised the entire essentially minimum \$10,000 necessary to endow the Scholarship within a week of announcing it, the interest which will accrue from this is not really very much so we would like to increase the principal. Thus we will continue to accept contributions until the principal has risen so as to provide an award of about \$1,000. The award will provide a stipend to a chemistry major who demonstrates financial need and who is academically successful with preference being given to first generation college students. This award is primarily designed for juniors. The other endowed award, the **William and Erma Cooke Scholarship**, is designed primarily for sophomores. This latter award is completely endowed through the kindness of



Dr. Anderson presents the first Lawrence Barton Fellowship to Karen Terry.

Dorothy Greco and her family. If you wish to contribute to this new scholarship, please use the form at the end of this newsletter.

### The M. Thomas Jones Memorial Fund

We have established a fund in honor of our former colleague Dr. M. Thomas Jones. Tom was known as a top researcher as well as a successful administrator when he was at UM-St. Louis. Indeed the way he was able to maintain a productive research program, while serving as an administrator, was a fine example to all of us. Tom's widow Pat Jones suggested that Tom would have been in favor of supporting graduate students so we have decided to establish a graduate student support fund in his honor. This is the first fund solely directed at graduate student support and we encourage you to make a contribution if you wish the memory of tom to be honored in this way.

### Barbara Brown Fellowship for Women in Chemistry

Barbara (Willis) Brown has established a Fellowship for Women in Chemistry. The criteria are that it is to go to a female student over the age of 24. Barb would have qualified for this award when she returned to school in the early 1980s to study chemistry. She had been working as a qualified radiology technician prior to returning to school. Barb was very active as a mentor and tutor when we first taught chemistry for nurses, assisting Drs Murray and Chickos, who were teaching the courses at the time. She did research with Dr. Chickos when she was in the department.

### Departmental Awards

1999-2000

#### Undergraduate

The award for the *Outstanding Student in Introductory Chemistry* went **Pamela Neubauer, Yekaterina Gincherman and Michael Burgard**. They all received a certificate and a *Handbook of Chemistry and Physics* from the Chemical Rubber Company. The *American Chemical Society Award for Analytical Chemistry* went to **Aaron Burns** 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 **Noah Smith**. The award was presented at the annual Awards Night during the ACS St. Louis Section's Chemical Progress Week. **Aaron Burns** and **Melissa Stuchell** received the *Alan F. Berndt Outstanding Senior Award* and the *American Institute of Chemists-Student Award Certificate*. *William and Erma Cooke Scholarships for 2000-01* went to **Katherine Block and Noah Smith**. The 2000 *Undergraduate Chemistry Awards sponsored by the Monsanto Company* were awarded to **Katherine Block, Jeremy Ridenour, Matthew Dunn, Angela Schmitt, Lisa Emery, Noah Smith, Erik Hoefgen**. The 2000-01 *Barbara Willis Brown Scholarship for Women in Chemistry* went to **Elaine Katz**, the 2000-01 *Eric G. Brunngraber Undergraduate Research Fellowship* went to **Erik Hoefgen** and the 2000-01 *Lawrence Barton Scholarship* went to **Karen Terry**.

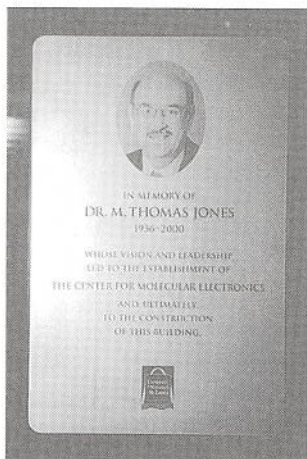


**Graduate**

The 2000-01 Mallinckrodt Fellowship went to **Mesfin Janka**. 2000 Summer Graduate School Dissertation Fellowships went to **Paul McQuade and Shyu Fang** and Graduate School Summer Fellowships went to **Elizabeth Amin, Mesfin Janka, Philippa Jayatilleke, Gary Nichols, Swati Puri and Brad Rowe**. A 2000 Alumni Summer Research Fellowship went to **Linyong Mao**. The 2000-01 Graduate School calendar year Dissertation Fellowship went to **Qingzheng Wang** as did the 1999-2000 Graduate Student Research Award. Commendations for Excellent Performance by a Teaching Assistant were awarded to **Michele Sharpe** and **Anchalee Thanavaro** and the 200-01 Graduate Teaching Assistant Award in Memory of Jack Coombs was awarded to **Qingzheng Wang**.

**Alumni**

The 1999 Distinguished Alumni Lecture was presented by **Dr. Deborah F. Bergstrom** Global Research Leader, Dow Corning Co (BS, 1980). Her title was "Silicates and Silicones, Complex Nanostructures". In addition to her work at Dow-Corning Deb. and her husband Wayne traveled to Africa and went on safari last year.



The plaque which hangs in the Center for Molecular Electronics honoring Tom Jones

**Contributions 1999-00**

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

**CONTRIBUTIONS FROM ALUMNI AND FRIENDS**

Mr. and Mrs. Ronald E. Ackerman	Ms. Kristin J. Frost
Dr. Razia Ahmed	Ms. Elizabeth Viviano Galie
Dr. Donald P. Ames	Mr. David R. Ganz
Dr. and Mrs. David A. Armbruster	Mrs. Jeanette A. Glaenger
Mr. and Mrs. Arthur Auerbach	Mr. Lee L. Gori
Ms. Patricia J. Barton	Drs. Alfred O. and Dorothy C. Greco
Ms. Rhea S. Baxter	Ms. Suzanne Metz
Dr. Ali A. Bazzi	Mrs. Susan Moffitt
Ms. Nancy G. Bedan	Mr. and Mrs. Brian Mohr
Ms. Phyllis R. Bennet	Ms. Sharon J. Moran

Dr. Debra F. Bergstrom	Mr. and Mrs. Donald O'Neal
Mrs. Kirstin J. Blase	Dr. Dennis R. Patterson
Mr. and Mrs. Paul D. Bostick	Mr. John P. Perry
Mr. Robert H. Branom	Dr. Janet D. Place
Dr. Barbara W. Brown	Ms. Lori A. Polette
Mrs. Lois Brunngraber	Poplar Tree Social Committee
Mr. Roger W. Buchanan	Mr. and Mrs. John K. Pratt
Mr. Joseph W. Bulock	Mr. Gregory W. Przygoda
Mr. Thomas J. Byrd	Dr. Shankar B. Rananavare
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Mr. John L. Chruma	Mr. Robert T. Roither
Mr. Kevin R. Criscione	Mr. and Mrs. Orin L. Sanders
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Mr. and Mrs. James F. Essinger Jr.	Mr. Gary M. Schilling
Ms. Marilyn Evans	Mr. John J. Schuster
Mr. Shiyue Fang	Mrs. Mary C. Scudder
Dr. and Mrs. Bernard J. Feldman	Drs. William R. and Dawn L. Shiang
Dr. Christopher S. Foote	Dr. Julia K. Muller
Mr. and Mrs. John D. Green	Mr. Earl K. Shreckengast
Mr. Brian M. Gross	Mr. and Mrs. Leslie M. Sprinkle
Mr. Xue M. Gu and Dr. Judy D. Shih	Mr. Daniel P. Stueck
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Mrs. Janet S. Harris	Mr. Stephen J. Szymczak
Mr. and Mrs. Steven J. Harrison	Mr. Charles L. Thierheimer Jr.
Mr. Richard E. Hauhart	Ms. Cindy L. Dahl
Mr. Lance G. Hellwig	Mr. and Mrs. Dan C. Tucker
Mrs. Mary Rose Hennessy	Ms. Joan Twillman
Dr. and Mrs. Gregory A. Hileman	Mr. Angelo W. Vangel Jr.
Mr. Ray and Dr. Virginia Houserman	Dr. James M. and Dr. Susan A. Varnum
Dr. Thomas F. Jenkins Jr.	Mrs. Carole A. Venderley
Mr. and Mrs. Wallace Johnson	Mr. John J. & Dr. Jean Vincent
Dr. E. Terrence Jones	Ms. Lois Vander-Waerdt
Dr. Lois H. Pierce	Ms. Jin Wang
Mrs. Ralph L. Jones	Dr. and Mrs. Douglas Wartzok
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Mr. and Mrs. Mark A. Leiber	Drs. Bruce A. Wilking
Dr. Minren Lin	Mr. Edward J. Williams
Mr. John Link	Ms. Sandy and Mr. Richard C. Wisneski
Mr. Scott A. Long	Mr. and Mrs. Bruce E. Woodruff
Mr. Kerry L. Martin	Ms. Karen L. Wright
Mr. Michael K. Maxwell	Dr. Shuguang Wu & Ms. Bo Liu
Ms. Melinda F. McCann	Dr. Michael W. Young
Mr. Michael C. Merriman	
Mr. and Mrs. Steven J. Mertens	

**Alumni Ambassador's Program**

Over the course of the past several years, the UMSL Alumni Association has been working to establish a program to match the time, talents, resources and wisdom of our alumni with the needs of our alma mater. The Alumni Ambassadors program helps departments on campus communicate their volunteer needs to alumni who want to give something back. And the best part: No meetings... no required time commitment...no hassle.

What do UM-St. Louis Alumni Ambassadors do? Attend open house and meet students and parents; speak to students on career choices; call prospective students about coming to UMSL; developing scholarship endowments; attend college fairs; develop a chapter or club; advise departments on long range planning; serving on search committees, etc. Some of the ideas have come from the university and some have come from our Alumni.

How can you help? All Alumni interested in giving one hour or 1000 hours of their time can become an Alumni Ambassador. Contact the Alumni Relations office at (314) 516-5833 or

alumni@umsl.edu for more information.

### Keeping us informed

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



*Dr. Barton with Distinguished Alumnae Lecturer Debora Bergstrom*

for doing this. It is clearly very satisfying to see one's former students do well. If there are such things as products of our work, then it is the graduates of the program, which are the most significant. Other measures of productivity include research

publications and grants but these would not be possible without the students who do most, if not all, the experimental work. Of course it is important if one is writing a newsletter such as this to maintain contacts. Furthermore, I regard most of the former students I met here as personal friends and that is an additional impetus for maintaining contact.

Thus whenever I hear anything about any of you, I make a mental, or sometimes written, note of the item. Sometime, but quite rarely, colleagues give me information but most of it comes from journals, the newspaper, hearsay and efforts on my part to obtain information. I am a little frustrated that we don't hear from more of you. There are many reasons why it is important to us, in addition to the points I make above. Success of graduates is a good argument to the administration to support us. Success of graduates working in corporations, either in this area or elsewhere provides an important lever when we are seeking support from industry. As in most universities, the fraction of our financial support that derives from the state has been steadily dropping, and thus we need more external support from corporations, friend, alumni etc. For years we have been cognizant of the fact that as a young university, we don't have so many alumni who are in a position to make substantial gifts to the university. Since now some of our graduates are retiring, that situation must be changing and we hope you can find it possible to make a contribution to the department. Unfortunately, we have very little financial aid available for students here and one goal is to increase the support given to students, especially undergraduates in the form of scholarships. Remember anything you do to help improve the institution, helps you because it increases the value of your degree. The better the reputation of an institution, the more highly regarded are its degrees.

Finally, please let us know your views on whether we should work to establish a Chemistry Chapter of the UM-Alumni Associate



*Dr. Winter being presented with the Governor's Award for Excellence in Teaching by Missouri Governor Mel Carnahan as Chancellor Blanche Touhill looks on.*

