



# UMSL CHEMIST

Department of Chemistry

University of Missouri-St. Louis

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## Chairman's Message

It scarcely seems that a full year has passed since we last put together an issue of the UMSL CHEMIST. We continue to receive compliments about the latter and for the present we intend to maintain the same format as we have used during the past several years.

This year has been a very rough one in Missouri for all levels of education, with substantial withholding of the state budget, resulting in cuts at all levels. A resounding defeat of a major initiative to raise state taxes to support education and other factors have resulted in major belt-tightening for all of us. More recent efforts to raise funds for maintenance and repair of buildings etc. led to more cuts and an aggressive early retirement program.

The recent death of our former Chancellor Marguerite Ross Barnett saddened us all. She died of cancer on February 29. At the time she was on medical leave from her position as President of the University of Houston. Dr. Barnett is described in a separate section later. The early retirement program claimed Dr. Miller and Bob Cabaniss, and also Dr. Armbruster but he will continue to teach in the department for the next 5 years so we really will not lose him until later. Can it be that of the faculty who were here before Dr. Garin and I joined the University, only Dr. Larsen will remain in a regular appointment?

One of the true joys of being a faculty member is to observe the successes of former students first-hand. All the pieces of information you send me provide much that is pertinent information. Other information is gleaned from a variety of sources and sometimes colleagues and I have occasion to visit you on your own new, or not so new, turf. I was fortunate to be in Midland MI. last October and to meet Deb. Bergstrom and her family for dinner, and to visit the wonderful lakeside home of Bill and Dawn Shiang for brunch. This July I look forward to visiting Dennis Wester and Greg Lumetta in Richland Washington. Other colleagues can recount similar visits.

The campus continues to grow as the Computer Center building nears completion and a computer building is completed on the South Campus. Construction of Metrolink, the light rail system, progresses and we expect the campus to be

DON'T FORGET THE ALUMNI RECEPTION AT WHICH WE WILL HONOR DR ARMBRUSTER. IT WILL BE HELD ON SAT. APRIL 11, FROM 7 TO 9 PM, IN THE J. C. PENNEY CENTER FOYER. PLEASE CALL RANDA SCHNEIDER AT 553-5311 TO INDICATE WHETHER YOU WILL BE ABLE TO ATTEND. WE LOOK FORWARD TO SEEING YOU.

much more accessible next year as the system is completed. Traffic on campus is still considerably disrupted but most of the work is finished. Plans are being drawn for the addition to the Science Complex which will house the Center for Molecular Electronics and we understand that a green-house is to be constructed adjacent to Benton Hall for the Department of Biology.

After the early retirement business is over the department will be down to 17 regular faculty members but the prospect of filling the two vacant slots will be slim for three or four years. Fortunately, enrollment is up again and we anticipate more BS/BA graduates this year than in any year since the early 1980s. Enrollment in the doctoral program remains steady and we look for increases, but enrollment in the MS program has plummeted. At the moment we have 14 postdoctoral fellows, more than ever before. External research funding continues to grow and this year we have already received over \$600K. The industrial component of the latter also continues as we build bridges to the local chemical industrial community and thus serve to enhance our role in this urban university.

Undergraduate research in the department has seen a great resurgence this past year. Due, mostly to the leadership of Professor Chris Spilling, we had 19 undergraduates in our research labs last summer and this year promises to be similarly active as we begin the three-year tenure of the NSF Research Experiences for Undergraduates program. Computing facilities for students will improve dramatically as the long-awaited Benton Hall student computer lab opens later this Spring. Another important development is that we are in the process of purchasing an atomic absorption spectrometer as a result of the good work of Dr. O'Brien in writing the successful grant proposal which led to the award of the funds by the National Science Foundation. We recently voted to allot an additional credit hour to the instrumental analysis course to serve better the student planning to go into industry.

The new colloquium room, funded in part by contributions from Anheuser-Busch and Emerson Electric, is now in operation and we invite you to attend one of our seminars to see it for yourselves. The campus received \$10million from the federal government to establish the Center for Molecular Electronics. The funds will be used for a building and equipment. Physics, Chemistry, and Engineering faculty will participate in the Center. Among those who will play very prominent roles are Professors O'Brien, Stine and Welsh, with Professors Brammer, Chickos, Anderson, H. Harris, and Barton participating in lesser but important roles in the Center. The Center was the brain-child of Tom Jones who is now with the University of Houston.

Colleagues received honors this past year which reflected well on the department. Dr. Riehl will receive the St. Louis Award of the St. Louis Section of the



ACS and we look forward to the St. Louis Award Symposium which will be held on campus on April 22. I received this award last year and was also recently honored by my Alma Mater, the University of Liverpool. Dr. Corey will spend two months in France, funded by the French government in April and May, and Dr. Chickos received funding for his research/sabbatical leave in France and Britain.

We look forward to honoring Dr. Armbruster for 30 years of excellent service to the campus and the department and we hope to see many of you there. We welcome your visits to the department. Please send us information about yourselves that we can include in future issues of this newsletter. If you have information about job openings or if you are seeking a position, please let us know. The network has really helped some of your colleagues in the past.

Finally we wish you all the best in your careers and personal lives.

Sincerely,

Lawrence Barton  
Professor and Chairman



Marguerite Ross Barnett

#### MARGUERITE ROSS BARNETT 1942-1992

Marguerite Ross Barnett, the fifth chancellor of UM-St. Louis, died of cancer on February 26. She was the first black woman to lead a major university and was most recently president of the University of Houston. As chancellor here she brought vision, progress and success to the campus.

Her initiative "Partnerships for Progress" embraced all levels of education from pre-college inner city programs through doctoral programs. She was able to obtain funding from the state and the private sector for these programs at levels unprecedented in the campus's history. The funding for "Eminence in Chemistry" came through her initiative. Recognized by the Board of Curators as someone who inspired both political and corporate goodwill, she will be remembered as the person who brought various constituencies in St. Louis together to support a range of issues in education.

Marguerite Ross Barnett was born in Charlottesville Virginia, graduated from Antioch College in 1964 and received her master of science and doctoral degrees in political science from the University of Chicago. She held academic positions at Chicago, Princeton, Howard, and Columbia Universities, before becoming involved in university administration.

Prior to joining UM-St. Louis in 1986, she was vice chancellor for Academic Affairs at the City University of New York. During her brief tenure at the University of Houston (she went there in 1990) she succeeded in raising more than \$150 million for the institution, including a single donation for \$50 million, one of the largest gifts ever made to a public university.

A memorial service was held on Sunday, March 8, in the Mark Twain Building here when over 450 people paid their final respects to her. She died in Hawaii where she was making a trip with her husband. They had spent there honeymoon there. She is survived by her husband Walter King and a daughter Amy.

## Alumni Information

### 1966-67

**Jon Benedictus**, B.S., has been working in Research and Development with Anheuser-Busch in St. Louis for several years. His daughter Dana works for the Math Science Education Center on campus and spends much time in the Chemistry Department office.

**David Henton**, B.S., who is a Senior Associate Scientist at the Dow Chemical Company in Midland MI. met yours truly when I was attending a Council for Chemical Research Conference there last Fall.

### 1968-69

**Robert Byington**, B.A., is with Ethyl Corporation, Petroleum Additives Division in St. Louis.



Gary Jacob receiving commendation as the Distinguished Alumni Lecturer from Dr. Barton.

**Lee Gori**, B.S., is a Senior Systems and Procedures Specialist with ESCO Electronics Corporation, formerly part of Emerson Electric. The company makes Patriot missile launchers and the TOW missile launcher, both of which were used in Desert Storm. Lee wrote the milling, assembly, and painting procedures for these products. He recently moved to Edwardsville IL. where he has taken up gardening.

**Dr. Gary Jacob**, B.S., about whom we wrote last year, was featured in the *UM-St. Louis Magazine* last summer. Gary is Head of Glycosciences at Monsanto in St. Louis. He presented the *Distinguished Alumni Lecture* this past year and also spoke at Career Day in April 1991, sponsored by the local ACS Section and the department.

**Francine (Storey) Longcor**, B.S., (Ph.D 1984) is Director of Research at Lorvic Corporation in St. Louis. She replaced Bob Stearns, about whom we write in the Adjunct Faculty section.



**Leslie Tucker**, B.S., is an M.D. internist on the staff of Missouri Baptist Hospital in Washington, Missouri in gastroenterology. We were delighted to see Les at the last alumni reception.

1969-70

**Harold Messler**, B.S., received one of five *Distinguished Alumni Awards* presented at the Annual meeting of the Alumni Association in June. Harold is a perennial speaker at Career Day and he did so in 1991.

1970-71

**Ronald Ackerman**, B.S., (M.S. 1981), attended the reception for Monsanto employees who are alumni. He is now located at the Monsanto Creve Coeur site after several years downtown at the second street plant.



Dr. Dennis Wester, Professors Sheldon Shore and Robert Murray, speakers at the A.C.S. St. Louis Section, Award Symposium, with awardee Dr. Barton.

**Roger Buchanan**, B.A., has been at the Monsanto Agricultural Company since graduation. He has also been very helpful to us in steering surplus equipment our way and we are most appreciative for that since such equipment is extremely important to us.

**Dorothy (Cooke) Greco**, B.S., was the featured speaker at a reception for major donors to the University, last November. She spoke very fondly of her days at UM-St. Louis. Dorothy and her husband Al (BA Biology 1971) made a substantial contribution to establish the first endowed scholarship in the department in honor of her parents (see below).

**Ann M. (Mayhan) Reynhout**, B.S., is Laboratory Manager, Assay Services, in the Quality Control Division of the Upjohn Company in Kalamazoo, MI. Ann who was known as "Nancy" when she was here, and her husband Phillip adopted a son, Scott, in 1987. He is from Korea, and is now 6 years old. In 1975 Ann received a M.S. degree in biochemistry from the Univ. of Illinois-Urbana. She has worked at Upjohn for 15 years, and for 9 years in her current position. Ann was instrumental in one of our recent graduates (Chris Mallory) learning about an opening at Upjohn and eventually accepting the position. She had informed us via the UMSL CHEMIST.

**Harry W. Orf**, B.S., is the Director, Molecular Biology Laboratories, and Principal Associate in Genetics at the Harvard Medical School. He is also President, of Cambridge Laboratory Consultants, Inc. and has completed some major projects. He was recently featured in the *Boston Globe* for his involvement in a project involving inner city high-school students in science experiments. Harry received a Ph.D. in organic chemistry from Harvard in 1976 and has been associated with the University ever since. (See letter below)

**C. Richard Pauley**, B.S., after graduate school and ten years with Dow Chemical Company, began a chemical process consulting practice in alkanolamine chemistry and acid gas separation. His company is Pauley Gas Conditioning and it is located in Chattanooga, Tennessee. Rich attributes a portion of his success over the last 20 years to "the excellent education he received at UMSL". He remembers his final exam in first semester organic course, when Dr. Armbruster asked them to synthesize the active ingredient in "OFF". After allowing a brief period for panic to take its course, he returned to the room and kindly gave them the chemical formula. To this day, Rich can still recite it. It is, of course, N,N-diethylmetatoluamide!

**Steve Stanfield**, B.A., is Vice-President, Marketing at the Nicols Institute in San Juan-Capistrano, California. Nichols Institute provides esoteric diagnostic testing to clients nationwide in fields such as endocrinology, genetics, immunology, microbiology, molecular biology, oncology and others. Steve was recently visited by Ms. Lois Tegethoff of the Alumni Relations Department.

**Dennis Wester**, B.S., spoke at the ACS award symposium in April on the topic "The  $\alpha$ ,  $\beta$ ,  $\gamma$ s of Nuclear Medicine". Dennis has a Ph.D. degree in chemistry from the University of Florida and is currently a Senior Research Scientist at the Battelle Pacific Northwest Laboratory in Pullman, WA.

1971-72

**Ken Henderson**, B.S., is a Senior Rheology Specialist at Ethyl Corporation, Petroleum Additives Division in St. Louis. He recently published three papers in his speciality.

**Robert L. Lamberg**, B.S., who received his M.D. from Washington University and specializes in ophthalmology, is President of the Eye Institute of St. Louis. He was recently elected President of the Washington University Eye Association, and was promoted to Assistant Professor of Ophthalmology and Visual Sciences at the Washington University School of Medicine. Bob is the donor of a major scholarship in the department and a member of the Alumni Agents Council.

1972-73

**Steve Mertens**, B.S., is a sales representative for VWR Scientific in Cerritos, CA. Steve holds a M.B.A. degree from UM-St. Louis.

**Gregory Przygoda**, B.A., hosted yours truly and colleagues from the Alumni Office to discuss the establishment of a UM-St. Louis alumni network at McDonnell-Douglas, where he is a Senior Engineer involved in Q.A and nondestructive testing.

1973-74

**Paul G. Blystone**, B.S., left the Hach Chemical Company in Loveland CO. two years ago and co-founded Purus in San Jose California. He has been working 14 hour days ever since. Purus markets systems for the treatment of contaminated water, soil and air. Paul is Director of Marketing and Director of Applications Research. He has recently presented papers at various conferences on the destruction of organic contaminants in air using UV flashlamps.



1974-75

**Roberta Farrell**, B.S., Executive Director of Repligen-Sandoz Corporation, received the Sandoz Innovation Award, given for outstanding achievement of all Sandoz USA companies. She shares the prize with a person who works for her. "Birdie" has a Ph.D. in biochemistry from the University of Illinois-Urbana.

**Bill McCarthy**, B.S., (Ph.D. 1984), is Senior Research Chemist at Mallinckrodt in St. Louis. Bill helps keep us informed on other graduates.

1975-76

**Bob Frease**, B.S., received his Ph.D. degree in oceanographic chemistry from Florida Institute of Technology in Melbourne Fla, and then did his postdoctoral work at Rice University. He now works for the Florida state government and is monitoring the Indian River, according to Bill McCarthy.

1976-77

**Phil Asaro**, B.S., is a family physician in the Soulard Neighborhood and is associated with the Lutheran Medical Center.

**Pauline Bellavance**, Ph.D., is Professor of Chemistry at Fontbonne College. She spoke at Career Day in April 1991. Pauline was featured in an article in the *St. Louis Post-Dispatch* as one of the founders of the Math/Science Network, a non-profit group of women scientists working towards attracting more young women into careers in science.

**Lance Helwig**, B.A., works for MEMC, formerly Monsanto Electronic Materials Company, in St. Peters MO as a Research Specialist. We met Lance at a UM-St. Louis reception for alumni who are public officials. Lance is a member of the Jennings School Board.

1977-78

**Peter Kleine**, B.S., (M.S. 1982), was recently involved with Monsanto colleagues in helping set up a joint mentoring program between the Agricultural Company and the department. Pete wrote to us recently and expressed his appreciation to Dr. Armbruster whom he credits for stimulating his excitement in organic chemistry; excitement which he still retains. He is a Research Specialist and Unit Leader in the Repreparations Group of the Monsanto Agricultural Company.

**Dennis Delfert**, B.A., is a Research Group Leader in Immunodiagnosics at Abbott Laboratories in North Chicago. Dennis has completed 5 years at Abbott Labs, and is currently working in the area of applied "new technologies". He and his wife Elizabeth (Mueller), who recently became certified as an elementary school teacher, have two children, Patrick, 8, and Jessie, 10, both of whom enjoy soccer and piano.

**Russell Moutray**, (M.S. 1989) can't get enough of us. He is back taking a graduate course in the department.

1978-79

**George Limpert**, B.A., a chemist at Mallinckrodt is now in our part-time MS program.

**Mark Riva**, B.S., (M.S. 1984), is a Senior Analytical Chemist, at the Warner Jenkinson Company in St. Louis.

1979-80

**Deborah Bergstrom**, B.S., and her husband Wayne, hosted the Bartons for dinner at her home when they were in Midland MI. for a conference. Deb is now in the Novel Materials Research Group at the Dow-corning Company in Midland. She received a Ph.D. degree in inorganic chemistry from Michigan State University.

**Donna Friedman**, Ph.D., is the 1992 Chairman of the St. Louis Section of the ACS. She has taught summer school here for the past few years and is Professor of Chemistry at Florissant Valley Community College.

1980-81

**Michael Hauser**, B.S., has recently been promoted to Senior Research Chemist in the Monsanto Agricultural Company. After 10+ years in "Process Development", Mike has been reassigned to the "Residue" section to undertake studies of low level herbicidal residues.

**Cynthia K. Woodall**, B.S., who is in Manufacturing Engineering with McDonnell-Douglas, presented the paper "Low Cost Composite Weapons-resin Transfer Molding" at the conference on Advanced Engineering Fibers and Textile Structures for Composites at North Carolina State University in Oct. 1991. We read about this in *INNOVATE*, a technical bulletin published by McDonnell-Douglas.

1981-82

**Theresa Blase**, B.S., is doing her residency in Medicine in Milwaukee, according to Debora Bergstrom

**Kathy Janus**, B.S., is working for United Industries Corporation in St. Louis as a Technical Assistant. She is involved in maintaining technical data on computer files and also in laboratory work.

**Shelly Kumar**, Ph.D., got married last December to Sangeeta whom he met in India. Shelly is a faculty member at Governors State University in Chicago.

**Dennis Parazak**, B.S., (M.S.1987) continues to publish papers on his research at Petrolite but we understand he is developing quite a reputation as a guitarist. We read in a throwaway music magazine that he is one of the top rock guitarists in the St. Louis area.

**Mike Rocchio**, B.A., is with Calgon Vestal in St. Louis. He was formerly with Petrolite.

**Mark Stehlin**, B.S., is a Project Leader for the Waste Management group at Petrolite in St. Louis. The group sells specialty chemicals, and surfactants to the oil industry. Mark and his wife Mary, who reside in Fenton, MO, have two sons, aged 4 and 8.

**Steve Lawrence**, B.A., (Ph.D. 89), recently wrote to describe his position as Assistant Professor of Chemistry at Rockhurst College in Kansas City. Steve spent the summer 1991 as a research fellow in the laboratory of Dr. Susan Jansen (B.S. 1982, Ph.D., 1986) at Temple University. Steve has published and submitted several papers recently on both research



and teaching topics and appears to be developing a fine record.

**Sue Saum**, B.S., holds a faculty appointment at Lindenwood College in St. Charles, MO.

## 1982-83

**David A. Miller**, B.A., is a physician at St. John's Mercy Medical Center, currently completing his final year of residency in family practice here in St. Louis. David received his MD from UM-Columbia in 1989. He plans to practice in St. Louis.

**Joseph O. Muo**, B.S., continues his work at St. Mary's Health Center as a Medical Technologist. His recent activities are directed at answering the question "Why do some people get fat with little food intake?"

**Gerald Sullivan**, B.S., who was with Sigma in St. Louis for several years, is now with Abbott Laboratories in North Chicago, IL.

**Mark Vilmer**, B.S., graduated with a Ph.D. degree from the University of Toledo. He is now in St. Louis and came by the department one day.

## 1983-84

**Micheal Drain**, B.A., wrote to correct our earlier report that his pending appointment at the Institute Louis Pasteur in Strasburg, France was a tenure track appointment. Apparently it is not. Mike enclosed his CV and it is clear that he has developed an outstanding record since he left UM-St. Louis.

**Don Hesse**, B.S., (Ph.D. 90), works for IT Corporation in St. Louis and is Director of the Organic Laboratory. Don serves as Sec/Treasurer of the St. Louis Section of the Society for Applied Spectroscopy. He spoke at Career Day in April 1991. Don will direct Dr. Chickos' research group when the latter is on sabbatical leave in 1992-93.

**Judy Shih**, B.A., is a research assistant professor at Kansas University Medical Center. We appreciate receiving her Christmas cards.

**Barbara Willis** (Brown), B.A., who is also a graduate of our Optometry program and practices in St. Louis is interested in establishing a chapter of the Alumni Association. If you want to help, contact her or Dr. Barton

**Suzanne Mates**, B.S., who also holds an M.B.A from Washington University and formerly was with the May Company in St. Louis, is now with Mallinckrodt Medical Products Division in St. Louis.

## 1984-85

**Rajiv Banavali**, Ph.D., sent us a Christmas card. Rajiv is still with Rohm and Haas in Houston.

**Janet (Braddock) Wilking**, B.A., who received a Ph.D. degree from Washington University in 1990, spent the past year as a postdoctoral Fellow at Harvard University. She is now with Mallinckrodt in St. Louis and spent time in Dr. Corey's lab as a postdocs for a couple of months.

**Linda Henken**, B.A., is completing her education degree here at UM-St. Louis.

**Floris Homan**, B.S., (Ph.D., 1989) now works for Centocor in St. Louis. Floris and his wife Peggy Ponzar (B.A. 85) are proud parents of a son Randall.

**Judy Morris**, B.S., was seen at the reception for UM-St. Louis graduates who work at Monsanto.

**Shankar Rananavare**, Ph.D., continues as Assistant Professor of Chemistry at the Oregon Graduate Institute of Science and Technology. He has set up an Xray Spectrometer and is busy raising funds (successfully) for his research program.

**Jettie Travis**, B.S., who is with the National Center for Drug analysis in St. Louis, spoke at Career Day on the campus last spring.

**R. Keith Webber**, M.S., earned another M.S. degree from UM-St. Louis last year. This one was in biology.

## 1985-86

**Kevin Berdak**, B.A., was featured in the Feb. 17, 1992 issue of the *St. Louis Post-Dispatch*. His photograph accompanied the story. Kevin, whose name the paper misspelled, is a Flavor Technologist at Beck Flavors in St. Louis. The article included such gems as identifying cherry flavor with the addition of benzaldehyde, which in lower concentrations gives the almond flavor.

**Joan Bryan**, B.S., is now at St. Louis University Law School. Joan worked in the Washington University chemistry department during the time she was a student here and continued there until going to Law School.

**Jim Roble**, (M.S. 1989) is a doctoral degree student at Carnegie-Mellon University in Pittsburgh.

**Shari (Menefee) Keith**, B.A., works at Monsanto, and attended the reception for alumni at Monsanto last Fall.

## 1986-87

**Michael Merriman**, B.S., was recently in the department. Mike is a Research Scientist II for Hoechst-Roussel in Summerville, NJ., doing neurobiology and protein purification. He holds a M.S. degree from Northwestern University, and recently had knee surgery.

**Paul Rachubka**, B.A., is Quality Assurance Manager for the Pillsbury Co. in St. Louis. He was instrumental in his company making some gifts of materials to the department last year.

**Jim Meyer**, B.S., is an Assistant Chemist at Warner Jenkinson in St. Louis.

**Ravi Kumar**, Ph.D., continues his postdoctoral research at LSU. He and yours truly had dinner together at the ACS meeting in Atlanta last Spring.

**Jeffrey Siria**, M.S., is the editor of the Chemical Bond, the publication of the St. Louis Section of the A.C.S. Jeff is now with ESE Laboratories in St. Louis.

## 1987-88

**Bill Neumann**, Ph.D., is now with Monsanto. He had been with Mallinckrodt Medical products company for several years. Bill teaches part-time for us in the evenings and will be promoted to Adjunct Associate Professor for next year.



**Peggy Nevels**, B.S., is a formulations chemist for the Monsanto Agricultural Company in St. Louis.

**John Pratt**, M.S., formerly at Monsanto in St. Louis is now at Abbott Laboratories in north Chicago.

**Mike Provance**, B.A., who is with Calgon-Vestal in St. Louis, spoke at Career Day.

1988-89

**Brent Cole**, M.S., is currently Manager of the Inorganic Chemistry Laboratory at Environmetrics Inc. in St. Louis. We read in the *St. Louis Post-Dispatch* that Brent was recently married to Carol Ann Reader, Graphic Designer for the University City School District.

**Jim French**, B.S., is employed by Mallinckrodt Inc.. He is also enrolled in our part-time MS degree program.

**Mike Meisinger**, B.A., is now in graduate school in chemistry at UM-St Louis.

**John Phipps**, B.A., is employed as a chemist at the P. D. George Company in St. Louis.

**Gary Wester**, B.A., will be going to Hilo, Hawaii to work for the Brewer Environmental Company as an Inorganic Section Leader. Gary expects to complete his M.S. degree here for the May graduation.

1989-90

**Michael Crowley**, B.S., received a M.S. degree in chemistry from Washington University and is now employed by Warner Jenkinson and is currently doing natural products chemistry.

**Teresa D. Hardesty**, B.A., is a Chemist, at United Technologies Automotive Company, in the Engineered Systems Division in St. Louis. She works with sealants, adhesives and rubber products.

**Sid Kamath**, M.S., is a Medical Research Technologist at the Washington University School of Medicine. He is studying the calcium transport in human placenta.

**Michael Kopp**, B.A., is now employed as a Product Development Scientist by Geneva Pharmaceuticals in Denver, CO. It is a subsidiary of CIBA-Geigy Corporation

**Minren Lin**, Ph.D., continues his postdoctoral research at Penn State University working on C-H activation of methane using platinum complexes.

**Toshio Maruo**, Ph.D., is with Molecular Simulations Co. in Los Angeles, California.

**James Murphy**, B.A., B.S., works at Sigma Chemicals as a chemist and we understand he was considering doing a M.S. degree at St. Louis University.

1990-91

**Thomas C. Bedard**, B.S., is doing a Ph.D. degree at the University of Illinois-Urbana. Tom is working with Professor Steven Zimmerman. He was married this summer and he and his wife Belinda are both studying in Urbana.

**Mahrukh Khan**, B.A., is working for the FDA in St. Louis and applying to medical schools for this next year.

**Todd Boehlow**, B.A., is in the chemistry Ph.D. program here at UM-St. Louis.

**Christie Silver**, B.A., is with CIBA Geigy in North Carolina.

1991-92

**Steve Fallis**, Ph.D., who received his Ph.D. degree with Dr. Anderson this past semester has a postdoctoral fellowship in the Corporate Research Department of the Monsanto Company in St. Louis.

**Daquan Gu**, Ph.D., is a Postdoctoral Fellow with Professor David Harpp at McGill University in Montreal, Canada.

**Jean Huhmann**, B.A., stayed on here and is now in the Ph.D., program.

**Darci Hunter**, B.A., turned down a position in Seattle WA. to study in the Optometry School here.

**Shaheen Keller**, B.A., returned to complete her degree here and is employed at Calgon Vestal in St. Louis.

**Casimir Lorkowski**, B.A., is employed by the Indian Refining Company in Lawrenceville, Ill.

**Linda McMillan**, Ph.D., who completed her Ph.D. degree with Dr. Welsh last summer is employed by Tripos Associates in St. Louis. Linda was married to Robert Adams who is employed by McDonnell-Douglas in St. Louis.

**Chris Mallory**, B.S., works as a laboratory analyst for Upjohn in Kalamazoo, MI. Chris and his wife Michelle have a two year old daughter, Cindy.

**Kim Wien**, B.A., works at Washington University Medical School.

## LETTER FROM ALUMNUS HARRY W. ORF, B.S. 1971

I received this letter this month and Harry agreed to our reprinting it here.

Mass. General Hospital  
Boston, February, 22, 1992

"I am in receipt of the Department's invitation to the Chemistry Alumni Reception to be held 11 April. Regrettably, a hectic schedule precludes my attendance. Given that the occasion will also be used to honor Dr. Armbruster, however, I cannot let it pass without taking the opportunity to comment on the influence he has had on my development, both professionally and personally.

I came to UMSL in 1967, shortly after Charlie had completed an initial round of recruiting which brought some exciting young faculty (Drs. Block, Corey, Garin and yourself, to name a few) and one established senior investigator (Dr. Murray) to the Department and the newly-opened Benton Hall. As an entering freshman interested only in engineering, little did I know how much Charlie and his recruits were about to influence my life.

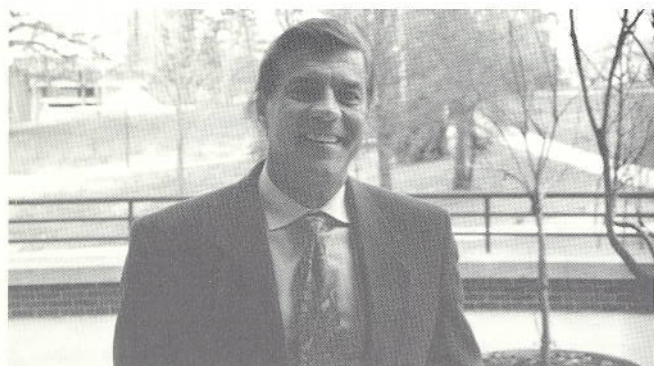


I remember the first few moments of my first day in freshman chemistry with Charlie as vividly as my recollection of JFK's shooting and Neil Armstrong's first step on the moon. Onto this huge class, Charlie projected his upbeat, energetic persona, got us excited about chemistry, and scared the hell out of us.... all in the first five minutes. During my rollercoaster ride with this class (there were many ups and downs), Charlie was always accessible, helpful, and encouraging. The interest in chemistry he instilled in me from that class brought me back to take "just one more" chem. course. From there, I caught the enthusiasm emanating from the rest of the department. Dr. Berndt convincing me to try chemistry as a major, Dr. Block showing me the challenging of research, Dr. Murray introducing me to that greatest of all fields - organic, and you, demonstrating that even a trivial sub-field like inorganic has its moments. Seriously, I owe a great debt to all of you who fanned the flame and built in me the fire of interest in chemistry, but it was Charlie who ignited the spark.

Charlie's influence on me stretched far beyond chemistry and that first class. He somehow convinced me, as a sophomore, to try my hand as a chem lab teaching assistant (you guys were really desperate for help back then). He helped a, then, woefully inadequate student of English, polish his scholarship application essays. He wrote a letter of assurance to a landlady hesitant to rent an apartment to an unemployed, newly-engaged student. He altered his schedule to stay in town and sing at that student's wedding. He, together with Dr. Block, convinced an uncertain senior that he was graduate student material and, later, that he could hold his own at Harvard.

I know from personal experience that Charlie has had a similarly profound influence on other friends and classmates of mine at UMSL. During the tenure of his 30 years there, surely there have been hundreds. I hope you will find time at the reception to thank him publicly for me and for all those whose lives are immeasurably better for having touched his".

Harry. W. Orf



Dr. Armbruster on the patio in front of the Science Complex.

## Industrial Relations

In September a reception was held in the Alumni Center for employees of Sigma who are alumni of UM-St. Louis. The function was arranged by the University Relations staff with the assistance of Sigma employees Kirk Richter, and Carl Tenpas. About 15 graduates

attended the reception along with several administrators and faculty members

A similar reception was held at Monsanto in October at the Monsanto Creve Coeur site. About 40 people were in attendance including about 12 graduates of the department, other graduates. Monsanto personnel and UM-St. Louis administrators. The arrangements were made by Michael Finkes (B.S., 1973, M.S., 1877) and several remarks were made by John Mason, President of the Monsanto fund and Chancellor Touhill. Alumni and friends who attended the reception

## Graduates 1991

### MAY 1991

Thomas C. Bedard BS  
Todd Boehlow BA, BS  
Nursen Coruh Ph.D.  
Mahrukh Khan BA  
Casimir A. Lorkowski BA  
Salvatore L. Mangananelli BA  
Tuan Thanh Phan BA  
Christe A. Silver BA  
Kurt Simmons BS

### AUGUST 1991

Xiao-Hong Zhu PhD  
Darci Hunter BA  
Shaheen Keller BA  
Christopher S. Mallory BS  
Linda McMillan Ph.D  
Iwok E. Umana BS

### DEC 1991

Ding Rong Ph.D.  
Daquan Gu Ph.D.  
Jean L. Huhmann BA  
Steven Fallis Ph.D.  
Darryl Hastie BS  
Diane L. Oliver BS  
Kathleen M. Riordan BA  
David Straatman BS  
Jerry LaMott, III. BA  
Richard J. Sconce BS  
Roberta Vu BA  
Kim S. Wein BA  
Marla J. Williams BS

## The Faculty

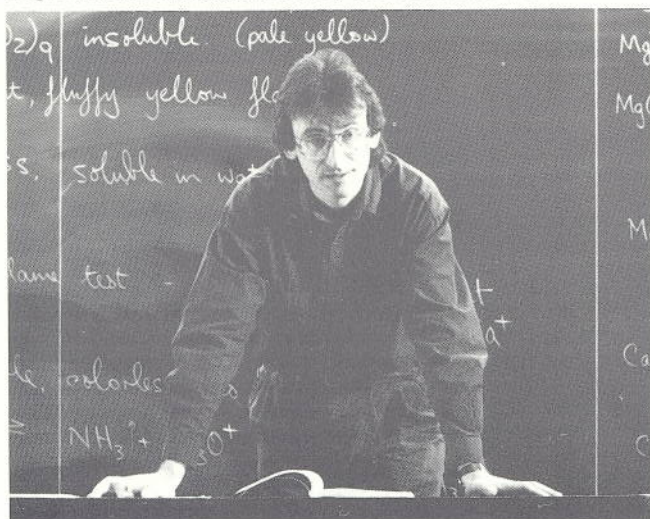
**Gordon K. Anderson** currently has research support from the National Science Foundation and the Petroleum Research Fund, and has a postdoc and three graduate students working in his laboratory. Steve Fallis completed his Ph.D. research and graduated in January. This year Dr. Anderson will present papers in San Francisco and in Switzerland, and he has been invited to write a chapter in *Advances in Organometallic Chemistry*.

**Charles W. Armbruster**, will take advantage of the university's early retirement package this next year but he will continue to teach organic and introductory chemistry. Dr. Armbruster has been with UM-St. Louis since before it was a separate campus of the UM system. He was first employed here in January 1962 and was appointed Chairman of the Division of



Science. He served in that position until 1968 when he became Chairman of the Department of Chemistry. He was Chairman until 1975. Nine of the current faculty were hired during Dr. Armbruster's administration of the department.

**Lawrence Barton** will begin a fifth term as department chairman next year. He received the ACS



*Dr Anderson teaching an introductory chemistry class.*

St. Louis Award in April 1991 and was named the University of Liverpool Chemical Society recipient of the 1992 *Potts Medal*. Dr. Barton received the Award in March 1992 in Liverpool. He also presented seminars at UM-St. Louis, and the Universities of Leeds, Liverpool and Strathclyde in the UK this winter semester. He will present papers at the Spring ACS meeting in San Francisco and the Boron USA meeting in Pullman, Washington this July on his research into group 14 derivatives of pentaborane(9) and hexaborane(10).



*Dr. Valerian D'Souza*

**Lee Brammer** now in his second year on the faculty, had two undergraduate students conduct research projects with him during the past year and has begun to establish his research group with a graduate student, working jointly with Dr. Anderson, and a postdoctoral fellow, Dr. Dong Zhao, who recently arrived from the University of Southern California. He collected neutron diffraction data at Brookhaven National Laboratory last summer, as well as participating in a number of scientific conferences. He is currently measuring high resolution X-ray diffraction data as part of his studies of electron densities of organometallic compounds. This research is funded by the ACS-PRF and University of Missouri Weldon Spring Fund.

**James S. Chickos** will be on a Research/Sabbatical leave in France at the CNRS in Marseille and at the University of Reading in England next year. He also plans to visit thermochemical laboratories in Portugal for a month. His research group consists of three graduate students, a postdoctoral fellow, and two undergraduates.



*Dr. James S. Chickos in a familiar pose in his office.*

**Joyce Y. Corey** had one Ph.D. student (Xiao-Hong Zhu) and two undergraduate research students, Tom Bedard and Jean Huhmann both of whom received Departmental Honors complete their degrees last summer. Joyce will present an invited talk at the San Francisco ACS meeting in a Symposium on the Design of Catalysts for the Synthesis of Organic, Inorganic and Organometallic Polymers. She will be a Visiting Scientist at the University of Science and Technology-Languedoc in France again from mid-April to mid-June. The stay is funded by CNRS.

**Valerian T. D'Souza** tells us that he has successfully synthesized an artificial redox enzyme and has demonstrated that it has significant catalytic activity. This project is being funded by the Mallinckrodt Specialty Chemical Company and the artificial enzyme is being patented with their cooperation. He edited a book entitled "The Bioorganic Chemistry of Enzymatic Catalysis".

**David L. Garin** is still directing the Center for Science and Technology. He has received a \$36,000 grant to investigate the feasibility of artificial soil. As outgoing Chairman of the St. Louis Section of the ACS, Garin made the presentation "Scientists and Politics-75 Years of Incompatibility" at Recognition Night lecture on March 14.



*Dr. David Garin presenting the St. Louis award to Dr. Barton.*

**Harold H. (Hal) Harris** spent the summer, 1991 on a Faculty Summer Research appointment at Wright-Patterson Air Force Base, near Dayton, Ohio. The research involved the study of the effects that electric fields have on hydrocarbon flames. As a result of that experience, he has received support to continue those investigations on campus. An undergraduate student just started working on the project, and it is expected that several more students will be involved soon.



**Wesley R. Harris** expects to graduate two Ph.D. students this year, Yong Chen in May and Gang Bao in August. Both have worked on projects involving transferrin, a human iron transporting protein. A new student, Sohrab Abdollahi, has recently started a joint project in collaboration with Dr. Riehl. Dr. Harris is supporting two postdocs on industrial money, one on a bismuth project for Mallinckrodt and another on a chromium project for a small California company called Interhealth.

**David W. Larsen** is building a field cycling magnet to do NMRD (D for dispersion, R for relaxation). The purpose is to evaluate and understand the action of image enhancement agents in MRI. He is also continuing research and development work on the *Chem Char* process for hazardous waste treatment. A patent for regeneration of spent activated carbon by the *Chem Char* process has been approved and will be issued soon.

**Jane A. Miller** she was awarded a grant to train new high school teachers to teach chemistry by the Missouri Coordinating Board for Higher Education.



Dr. Jane Miller

She has been named a distinguished alum by her high school. She will present a paper at the American Chemical Society San Francisco meeting on Erika Cremer. Dr. Miller is planning to retire at the end of the academic year.

**Robert W. Murray** reports that he and his research group have modified their dioxirane synthesis so that they can now make non-volatile dioxiranes as solutions in the parent ketones. They described the synthesis of 7 new dioxiranes in a recent publication (RWM, M. Singh, and R. Jeyaraman, *JACS*, Feb., 1992). Along with his postdoctoral fellow Megh Singh, he has a new patent for the synthesis of nitroxides. Dr. Murray spoke at the St. Louis Award Symposium on the topic, *Dioxirane Chemistry: From Enzyme Mimics to Air Pollution*. On the lighter side Bob and his wife Claire are taking Ceili dance lessons!

**James J. O'Brien** has been using his intracavity laser spectrometer in measuring the high overtone spectra of methane at cryogenic temperatures and for studying reaction intermediates in the plasma chemical vapor deposition of diamondlike carbon (DLC) materials. NASA is funding the methane work and funds have been obtained from the Advanced Performance Materials Division of Monsanto to pursue the DLC studies. Dr. O'Brien also received a grant from the NSF for the purchase of a state-of-the-art atomic absorption spectrometer for primary use in teaching analytical chemistry courses.

**Nigam P. Rath** continues his collaborative research involving x-ray structure determination with faculty members from UMSL and other universities and has worked on more than one hundred structures so far. Other activities which keep him busy are work on the Cambridge Structural Data Base and the new low

temperature data collection system for the diffractometer. Also he has served as a Mentor to Engelmann Young Scholars. The Engleman Scholar program brings top high school students to the campus each summer.



Dr. David Larsen

**James P. Riehl** was promoted to Professor effective last Fall. He continues his NATO and NSF-funded international collaborative research efforts with colleagues in The Netherlands. This past year he also presented a number of lectures in Poland. Dr. Riehl was recently named the 1992 winner of the St. Louis Award, given annually by the St. Louis Section of the ACS.

**Christopher D. Spilling** is directing the *Research Experience for Undergraduates Program* this summer. He and Dr. Welsh wrote the proposal which to the NSF which brought \$100K for three years to the department for the program. Chris, and his wife Kathy, became parents in May 1991, when their son Andrew Christopher was born. Dr. Spilling's research continues to go well and has 4 graduate students and a postdoc working with him. Results of his research will be presented at the ACS national meeting in San Francisco.



R. Robert Murray

**Keith Stine** attended the March 1992 American Physical Society meeting in Indianapolis this month to present a short talk on research project started last summer. The co-author on the abstract is David Stratmann. He has research funding through the ACS/PRF and the University of Missouri Weldon-Spring. His research on monolayers is currently progressing on a number of projects and it involves two undergraduates semester.



Dr. James O'Brien



**William J. Welsh** with Chris Spilling, wrote the REU proposal that the NSF funded. He recently initiated collaborative research with the St. Louis Food and Drug Administration on the molecular modeling of liquid crystals. He continues his molecular modeling research on polymers and biological molecules.

**Rudolph E. K. Winter** has been enjoying a sabbatical leave, his first since 1975-76. His activities have included collaborative research with Washington University microbiologist Memory Elvin-Lewis, brief visits to the Organic Chemistry Institutes at Giessen and Karlsruhe (Germany) and an extended stay at Louisiana State University. Two of Winter's Ph.D. students are completing thesis work, Steve Kolodziej (Spring) and Marc Lord (Summer), as is Ed Kennelly, a visiting student from the Lewis group at Washington University.

### The Eugene R. Corey Memorial Dedication

The dedication took place on April 29 following the annual awards ceremony and the *Distinguished Alumni Lecture*. Chancellor Touhill and other campus colleagues helped us dedicate a grove of Bald Cypress trees adjacent to Bugg Lake and a wooden patio overlooking the lake. A stone marker was placed in the area bearing the inscription: *Taxodium disticum (Common Bald Cypress). This grove of trees was given in memory of Professor of Chemistry Eugene R. Corey (1935-1988) by his friends.* The dedication was attended by about 75 friends and was followed by a reception in the University Center.

### Adjunct Faculty

**Daniel Connolly**, has been teaching biochemistry for us in the evenings now for three years. Dr. Connolly is a research group leader at Monsanto. He received a Ph.D. degree from the Johns Hopkins University.

**Joe Dence**, who taught physical chemistry for us for several years left to accept an appointment at Lindenwood College last year. Dr. Dence had been taking graduate courses in mathematics when he was here and he received a M.S. degree in January 1992.



Dedication ceremonies for the Eugene R. Corey Memorial.

**Donna Friedman**, (Ph.D. 1979) has been teaching quantitative analysis for us during the summer for the past several years.

**John Gutweiler**, completes 20 years as an adjunct faculty member this year. Dr. Gutweiler refuses to give me any information to include herein but he is always ready to rib me when the distilled water is off. That is the rule rather than the exception these days. John is an amateur pilot and spends his summers hiking in such places as Alaska, the Rockies or the Alps.

**Dennis Moore** is our newest adjunct faculty colleague. He received a Ph.D. degree from Washington University and is a Research Chemist with Mallinckrodt Medical products Company in St. Louis. He is currently teaching general chemistry.

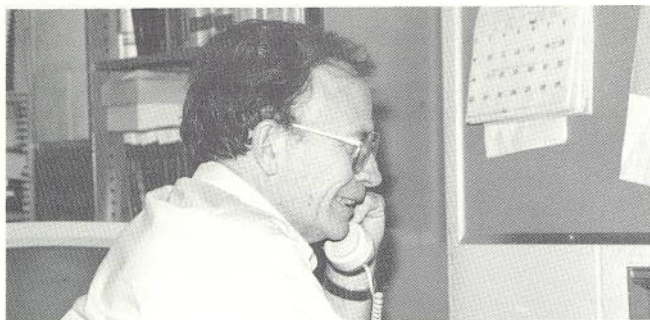


Department at the beginning of a recent seminar in the new Colloquium Room



**William Neumann**, (Ph.D.) has been teaching some of the largest evening section we have ever had in organic chemistry and we believe this is a testament to how much he is liked by the students.

**Robert Orth**, has been alternating physical chemistry courses with general chemistry courses in the evenings. Bob is a mass spectrometrist with Monsanto and once held a faculty appointment at Montana State University. Bob presented a seminar in the department last month.



Gordon Kerschmann

**William Ridley**, has taught the biochemistry course in the Optometry school for several years and also splits the second semester biochemistry course with Dan Connolly each Winter for us. Will is also with Monsanto and has a Ph.D. degree in biochemistry from the University of Minnesota.

**Robert Stearns**, has been teaching here longer than 90% of the faculty. Bob handles Chemistry 11 and 12. He recently retired from his position as Director of Research for the Lorvic Corporation in St. Louis.

## The Staff

**Betty Eshbaugh**, Administrative Secretary, continues to be the focus of much of departmental activity. It is hard to tell that she has been with us for so long as she keeps her self so fit dancing with the "Whambams", a square-dance club of which she is the vice-president.

**Bob Cabaniss**, Scientific Glassblower, has decided to accept the early retirement offer the University has made available but we hope to be able to make use of him on a part-time basis for at least a couple of years. Bob lost his mother recently and has been busy with family business in Arkansas.

**Ted Windsor**, Senior Electronics Technician, continues to be busy with jobs involving electronics, machining, repairing balances and vacuum pumps, maintaining our equipment inventory, photography and making slides but is "still mad at the world"! He shows up each Christmas wearing a shirt with "Bah Humbug" written on it. He says this attitude keeps him sane.

**Gordon Kerschmann**, Electronics technician, joined the staff in June 1991 as a replacement for David Herod. Gordon was employed as an instrumentation technician at Monsanto's Research Center in Creve Coeur for two years and prior to that he was involved in process control engineering for a company in Earth City, MO. Gordon's major responsibility has been the maintenance of the NMR instruments.

**Joe Kramer**, Electronics Technician, continues his running of the mass spectrometry laboratory and is also improving his proficiency with the department's computer system.

**Randa Schneider**, Secretary, celebrated her tenth anniversary in the department in September 1991. She will be going on a trip overseas to visit her homeland, in the Middle East, for the first time in 15 years, later on this year.

**Sylvia Stephens**, Secretary, is leaving us. We are sad to say that she will be going East after four years of excellent work for the department. She types many of our manuscripts for us. Her husband Al, has taken a position as a blacksmith, his hobby, in Exton, PA. and Sylvia and their children David and Julie will join him in June.

**Donna Palmer**, Stockroom Manager, continues to run our very clean and efficient stockroom. She has taken over some of the ordering tasks and has made much progress in the computerization of the inventory etc.

## Postdoctoral Fellows

Continuing postdoctoral fellows about whom we wrote last year include Drs. M. A. Islam and L. O. Rosik who work with Dr. W. Harris, Dr. D. K. Srivastava who works with Dr. Barton, Drs. Wei Kong and Megh Singh who work with Dr. Murray, Dr. Wangkan Lin who works with Dr. Welsh and Dr. Jack Uang who works with Dr. Chickos. Below we include comments about postdoctoral fellows who have either joined us or left us since last year.

**Vincent Blazis**, was educated at SIU-Carbondale, received his Ph.D. degree with Dr. D. C. Baker at the University of Alabama in Tuscaloosa, and joined Dr. Spilling's group in early summer 1991. He is working on the synthesis of chiral phosphorous acid diamides and their derivatives with Dr. Spilling.

**Kaliappan Iyanar**, has been with Dr. Murray for about a year. He received his Ph.D. degree from Annamalai University in India, and has done postdoctoral work at the Indian Institute of Technology in Bangalore, and at Clemson University. He is working on a project involving the use of organic oxidants in bleaching processes for the pulp and paper industry.

**Fred Joslin**, who is Canadian, has been with Dr. Corey since late summer 1991. He was born in England. He received his Ph.D. with Professor Stobart at Victoria University in British Columbia, and did postdoctoral work with Max Roundhill at Tulane University. He is working on dehydrogenative coupling of silanes with Dr. Corey.

**Kimberly Kilgore**, who was working for Dr. Tom Jones, presented a seminar on her research in December to the department. She is no longer here since the funds ran out and we understand she is looking for the appropriate position in St. Louis.

**Fola Ladipo** joined Dr. Anderson's research group in October 1991. He completed his Ph.D. work on some organometallic chemistry of iridium complexes at Virginia Tech. under the direction of Dr. Joe Merola. He is now working on the synthesis of new organopalladium and platinum compounds.



**Anna Mondry** left Dr. Riehl's group last fall to return to her teaching appointment at the Institute of Chemistry at the University of Wroclaw in Poland.

**Sam Tersigni** recently laid claim to his third publication with Professor Welsh on calculations of the dynamic properties of polymers. Sam has recently accepted a research position at Ethyl Corporation here in St. Louis but he continues his collaboration with Dr. Welsh. They are now involved in developing artificial intelligence "neuron networks" to analyze chromatographic scans of drug formulations in a joint project with the FDA.

**Tong Weida**, has been with Dr. D'Souza since early Spring 1991. He received his Ph.D. degree from Fudan University in China. His work with Dr. D'Souza on artificial redox enzymes combines his computational and experimental skills.

**Dong Zhao** joined Dr. Brammer's research group in February 1992 after receiving his Ph.D. from the University of Southern California under the direction of Professor Robert Bau. He is experienced in X-ray crystallography and synthetic organometallic chemistry and will continue to utilize these skills in his research at UMSL.

## Support

The department maintains several accounts which are the result of contributions by our alumni and other friends of the department. These include the Alumni Gift Account which we use to fund Freshman Scholarships, Summer Graduate Fellowships, alumni functions, printing, mailing etc., the Brunngraber and related accounts which contains funds for undergraduate research fellowship, and the Award Account which funds the Alan F. Berndt Senior Outstanding Senior Award, the Monsanto Aid to Education Funds and provides expenses for the other undergraduate awards, student travel to meetings and other similar expenditures for which we have no alternative funding.

We depend on you for such support. We are also very concerned that you support us in other ways. As voters you can help improve the level of funding for higher education in Missouri. As colleagues in industry you have assisted us in improving our standing with corporate management and as members of the community you can help improve our image there by being successful and letting your neighbors know where you received your degree(s). Many of you have steered surplus and other equipment in our direction; others have encouraged colleagues to return for graduate work here or to send their children here. We appreciate all of this and look forward to closer interactions with you in the future. As our program develops and our reputation grows your degrees become more valuable than ever so it is in all our interests to help the institution.

If you decide to make a contribution, please do so by using the tear off sheet at the end. If you wish your contribution to be used in one of the areas described above, please indicate that on the form. Even if you are unable to make a contribution please complete the "Information Update". Information about your successes is **extremely** important to us.

## Contributions 1990-91

Below we list all the chemistry alumni who made contributions to the university last year. The list includes those whose contributions went into general accounts in addition to those which went into the chemistry account, and it also includes those who made payments as part of larger pledges. The list is very impressive and we are most grateful for your support, especially during these very difficult times. There are some names included who are alumni of other departments but who returned to UM-St. Louis to take the prerequisite chemistry courses prior to applying to medical school.

0-\$100

Dr. Rushdi Alul  
Major David and Mrs. Pat (Mauler) Armbruster  
Dr. and Mrs. Phillip Asaro  
Mr. Michael C. and Susan (Moritz) Auinbauh  
Dr. and Mrs. Ali A. Bazzi  
Mr. and Mrs. Tom C. Bedard  
Mr. and Mrs. Joseph Bono  
Mr. and Mrs. Siddarth Kamath  
Mr. and Mrs. Paul D. Bostick  
Mr. and Mrs. Joseph W. Bulock  
Mr. Rocky L. and Katherine H. Carr  
Dr. and Mrs. John J. Chaber  
Mr. and Mrs. Arthur S. Clark, Jr.  
Mr. and Mrs. James I. Crowley  
Ms. Meri V. Cummings  
Mr. Marion (Datillo) and Ms. Jerri Davis  
Mr. William R. and Donna (Stanley) Demestre  
Mr. Jack M. Dougherty  
Dr. Charles L. Drain  
Dr. and Mrs. Jodie L. Duke, Jr.  
Mr. and Mrs. James F. Eissinger, Jr.  
Ms. Elizabeth D. Galie  
Ms. Elyse A. Gherardini  
Mr. Richard H. and Jeanette Glaenzer  
Mrs. Patricia A. Grooms  
Dr. and Mrs. Brian M. Gross  
Dr. Daniel A. Grumke  
Mr. Stephen P. and Janet (Zander) Harris  
Mr. and Mrs. Steven J. Harrison  
Mr. and Mrs. Michael D. Hasser  
Mr. Richard E. Hauhart  
Mr. and Mrs. Lance G. Hellwig  
Dr. and Mrs. Daniel R. Henton  
Dr. and Mrs. David E. Henton  
Mr. and Mrs. Anthony G. Herzing  
Dr. and Mrs. Donald Hesse  
Mr. Bruce and Kim (Rankin) Huelskamp  
Mr. and Mrs. Thomas F. Jenkins, Jr.  
Mr. and Mrs. Larry A. Justice  
Mr. and Mrs. Vernon P. Koziattek  
Mr. and Mrs. David L. Krombach  
Mr. and Mrs. Dale E. Lanser  
Mr. and Mrs. Mark A. Leiber  
Dr. and Mrs. Minren Lin  
Mr. Raymond E., and Judy E. (Taylor) Logsdon  
Dr. and Mrs. Gregg Lumetta  
Mr. Lawrence S. Lynn  
Mr. Thomas G. Makara  
Mr. and Mrs. Kerry L. Martin  
Ms. Marie S. Mates  
Mr. and Mrs. Michael K. Maxwell  
Mr. and Mrs. Stephen L. McCarthy  
Ms. Lisa L. McChesney  
Mr. George and Judy (Chu) Mei  
Mr. Michael C. Merriman  
Mr. Craig M. and Mary (Bremmer) Mierkowski  
Mr. and Mrs. Wiley L. Moore  
Mr. Jerry F. Orlando



Mr. Dennis Parazak  
 Mr. and Mrs. Randall H. Quint  
 Dr. and Mrs. Vincent U. Rapini, Jr.  
 Mr. and Mrs. John H. Reutner, Jr.  
 Mr. and Mrs. Myron O. Rhodes  
 Mr. and Mrs. Bruce Ritts  
 Mr. and Mrs. Robert T. Roither  
 Mr. and Mrs. John W. Ruggeri  
 Mr. Joseph and Cheryl Y. (Rudloff) Shea  
 Mr. Jeffrey Siria  
 Dr. and Mrs. Jang-Szu Su  
 Ms. Deborah Tannenbaum  
 Mr. Bekuretsion Tekle  
 Mr. Gregory E. Thudium  
 Mr. and Mrs. Dennis L. Timmerman  
 Mr. and Mrs. Dan C. Tucker  
 Mr. and Mrs. Nathan Wagner  
 Mr. and Mrs. George C. Walther  
 Mr. Michael J. Welsh  
 Mr. Richard Wisneski  
 Mr. Eric E. and Karen L. Wright  
 Mr. and Mrs. Michael Young

\$250-\$499

Ms. Sandra Aubuchon  
 Dr. Rajiv and Mary Banavali  
 Ms. Phyllis R. Bennet  
 Mr. Kevin A. Berdak  
 Mr. and Mrs. Thomas J. Byrd  
 Mr. and Mrs. James K. Grant  
 Mr. and Mrs. Michael Hauser  
 Ms. Mary K. Hays  
 Mr. and Mrs. Greg A. Hileman  
 Dr. and Mrs. Lloyd P. Hill  
 Mr. and Mrs. John R. Kolb  
 Dr. Shailendra Kumar  
 Dr. Lura D. Lange  
 Mr. and Mrs. Steven J. Mertens  
 Mr. and Mrs. Michael Mohl  
 Mr. Russell Moutray  
 Mr. and Mrs. Mark H. Owens  
 Mr. Michael A. and Dr. Janet (Dobbins) Place  
 Mr. Phillip and Ann (Mayhan) Reynhout  
 Mr. Thomas E. and Peggy (Whitlow) Rifleman  
 Dr. and Mrs. Jeffrey A. Ronecker  
 Dr. Xue M. Gu and Dr. Judy Shih  
 Mr. and Mrs. Steven R. Staat  
 Mr. and Mrs. John J. Taylor  
 Mr. Charles L. Thierheimer, Jr. and Cindy L. Dahl  
 Angelo Vangel, Jr.  
 Mr. and Mrs. Michael H. Walsh  
 Mr. and Mrs. Dennis W. Wester  
 Mr. and Mrs. Mark D. Wilfong

\$250-1000

Dr. and Mrs. Harry Orf  
 Drs. William and Dawn Shiang  
 Mr. and Mrs. Gregory Przygoda  
 Dr. Rick Mrad  
 Mr. Steven R. Stanfield  
 Mr. Rodney Knight  
 Dr. Robert Lamberg  
 Dr. and Mrs. Leslie Tucker

over \$10,000

Drs. Dorothy (Cooke) and Al Greco

## Departmental Awards

Our departmental awards presentation at the last seminar of the academic year, held in conjunction with the *Distinguished Alumni Lecture*, is now a well

established tradition. Last year it was held on April 29, and the speaker was Dr. Gary Jacob, B.S., 1869. This past year we also held the dedication of the Eugene R. Corey Memorial grove of trees, and the reception for the students was combined with one for those who attended the dedication. The awards given during 1991-1992 are given below.

### Undergraduate

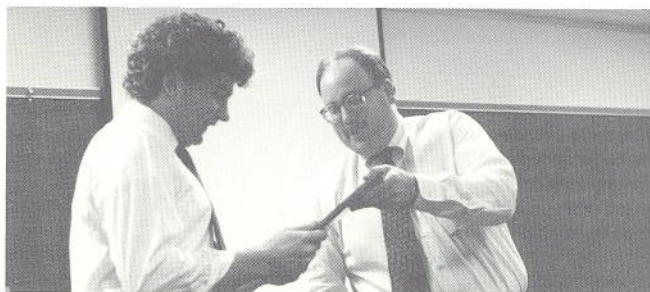
The award for the *Outstanding Student in Introductory Chemistry* was shared between Jack Hammer and James Blase. They both received certificates and a Handbook of Chemistry and Physics from the Chemical Rubber Company. The *American Chemical Society Award for Analytical Chemistry* went to Scott Long. Scott, who intends to go to graduate school, received a certificate and a one-year subscription to *Analytical Chemistry*. The *American Chemical Society - St. Louis Section's Outstanding Junior Award* went to Jean Huhmann. The award was presented at the annual Awards



Jean Huhmann receiving Outstanding Junior Award

Night during the St. Louis Section of the ACS' Chemical Progress Week. Jean also received the *Eric G. Brungraber Fellowship* for the Fall semester. Currently the Fellowship is held by Sal Ciaramitaro. Jean, who did her undergraduate research with Dr. Corey, graduated in January and is now in our Ph.D. program. Sal expects to graduate this year and hopes to go to medical school. The *Alan F. Berndt Outstanding Senior Award* and the *American Institute of Chemists Chemistry Senior Award* went to Thomas Bedard. Tom also received a NSF Graduate Fellowship and he is currently in the Ph.D. program at the University of Illinois.

The *Undergraduate Chemistry Aid-to-Education Awards sponsored by Monsanto* went to Sal Ciaramitaro, Dean Frey, Scott Long, Philip Ordoukhanian, Richard Sconce, Melinda Fleischer, Jean Huhmann, Mike Schreiner and David Straatman. Departmental Honors were awarded to Tom Bedard, Kim Wein and Christopher Mallory.



Dr. Spilling receiving the Outstanding Faculty Member Award from graduate student Jeff Siria

The *Minority Science Fellowship*, which is funded by Mr. Ronald Harris, went to Kimberly D. Story. The Lamberg Research Fellowship went to Joanne C. Henry. This year we were very pleased to be able to announce the establishment of the first endowed



scholarship in then department. Dr. Dorothy (Cooke) Greco and her husband Al contributed \$10,500 to establish the *William and Erma Cooke Scholarship*. The award will be administered similarly to the way we handle the Brunngraber and Lamberg Fellowships. It will be awarded annually to a needy meritorious student who is doing research. This semester the awardee is Ms. Anna Lindenberg. This year we awarded four Freshman Scholarships using Alumni account funds. Scholarships in the amount of \$500.00 per year were to top freshman applicants who indicated chemistry as their major. The successful students were Ronald Hampton, Gary Nichols, Aaron Wilson, and Richard Bish.

### Graduate

The 1991-92 Mallinckrodt Fellowship went to Marc Lord who is working with Dr. Winter and who will graduate this summer and join the research group of Professor Paquette at Ohio State University. *Alumni Summer Graduate Fellowships* went to Cecilia Marzabadi, Marc Lord,

Kathy Fallis and Ding Rong and *Graduate School Summer Fellowship* went to Pat Chernovitz, Hong Ping Ye and Steve Kolodziej. The new award, *The Outstanding M.S. Student Award* went to William Lesko. This year we also gave awards for excellence in teaching by graduate students and the awardees were Pat Chernovitz, Sarah Hosseini, Cecilia Marzabadi and Steve Kolodziej. They received commendations and credits to be used in the bookstore.

### Alumni

The fourth annual *Distinguished Alumni Lecture* was presented by Dr. Gary Jacob, BS, 1969. Gary was quite recently appointed a Monsanto Research Fellow, the first UM-St. Louis alumnus to be so honored. Gary is also head of Glycosciences at Monsanto and the topic of his presentation was "Glycobiology at Monsanto".

Editor-Lawrence Barton





