INVITATION TO THE BOSTON BREAKFAST

Paul A. Grieco
Things are still in a turmoil in the Chemistry Building with the second half of the renovation project still under way. The chairman's office will move into a newly renovated suite of offices this spring as will the business, graduate, and freshman offices. More information is listed elsewhere in the newsletter.

I would like to invite all of you to two separate events this spring. On Friday, April 13, at 4:00 p.m. in the Chemistry Auditorium, Professor E.J. Corey of Harvard University will present the inaugural Marvin Cramack Lectureship in Organic Chemistry. The lectureship was established in 1989 as a result of donations by friends and former students of Professor Cramack. Secondly, I would like to invite you to attend a complimentary continental breakfast at the spring ACS meeting in April. Watch C&E News for further details, and return the attached card to make your reservation.

We are proud of the many awards won by our faculty during the past year. Gary Hieftje was awarded the ACS Division of Analytical Chemistry Award in Analytical Chemistry; Ronald Hites was honored by a distinguished professorship; Alexandra Newton won a Searle Scholar award; Milos Novotny was named recipient of the Keene P. Dimick Award; Peter Ortoleva received a Guggenheim Award; and Charles Parmenter received the Tracy M. Sonneborn Award. Other awards are listed in the "News of Faculty" section.

Congratulations to Willie Lau (PhD'82) for receiving Rohm and Haas' Otto Haas Award designed to recognize scientists, engineers, and technical assistants for outstanding performance and research achievements of importance to Rohm and Haas. Willie's award was for the development and application of electron spin resonance techniques to better characterize the nature and kinetics of acrylic emulsion polymerizations. This award allowed Willie to designate an unrestricted grant to Indiana University.

I want to thank each of you who have supported the Department of Chemistry through your generous donations in 1989. Your support and loyalty are important to our continuing growth and prosperity in the 1990s. I hope to see you at the above-mentioned events this spring.

RENOVATION PROGRESS

Jack Baker
The second half of the renovation project, Phase II, is well under way. After a year's renovation on the 1930s building, we anticipate moving into it this spring. Freshman offices and a mini-auditorium will open on the ground floor. (At the end of the project the library will occupy a remodeled portion of the ground floor.)

Analytical chemistry research laboratories and faculty and student offices will occupy the west end of the first floor. Next will sit the Business Office, then the Graduate Office, Chairman's Office, faculty lounge, Archives/Alumni Office, and, at the east end of the floor, the analytical/physical chemistry teaching laboratory.

The second floor will be occupied by research laboratories and faculty and student offices. East of the existing Computational Chemistry area will sit a physical chemistry research laboratory. In the middle of the building are faculty offices. Further east, north of the corridor, will sit the departmental NMR laboratory. South of the corridor will be physical chemistry laboratories.

The third floor will be occupied by organic research laboratories. A new office has been created at the east end, and a new departmental instrument room has been created in the center of the floor.

Above, a new mechanical penthouse will house much of the machinery driving the building systems. Below, a new intake will bring fresh air into the building, and will avoid any mixing with laboratory waste air that used to plague the building.

Outside of the rebuilt entry doors a pavilion of limestone and brick will lead down illuminated brick walks to campus. Shrubbery and ground covers will soften the hard edges of walks and walls and provide visual interest as they mature.

In the mechanical spaces of the 1964 Annex, work is already underway. This summer renovation of the occupied spaces will begin in earnest. Researchers and staffs on the sixth, fifth, and fourth floors will be moved into new quarters in the 1930s building, and into temporary quarters in the lower floors of the 1964 building. The upper floors will be renovated first; the third, second, and first floors will follow.

Last in the project, the library will be moved into the quonset hut north of Chemistry while its area is revised and renovated. When it moves back into new quarters in summer 1992, the project will be complete.
NEW DEVELOPMENTS IN THE CHEMISTRY PROGRAM

Dennis Peters

In the last two years, there has been a dramatic revitalization of the undergraduate honors program in freshman and organic chemistry. To attract the best freshmen into the program, a chemistry skills assessment test is given prior to the start of the fall semester, and the 50-60 incoming freshmen who perform best on the examination are invited to enter the honors lecture and laboratory sequences (S105-S125 and S106-S126). Forty-one students enrolled in the honors program in fall 1988, and this past fall, 52 students began the honors program in freshman chemistry. As these students continue into the sophomore year, interest in the honors courses in organic chemistry (S341-S342-S343-S344) has risen greatly, and the number of our most talented and motivated undergraduates who pursue honors degrees in chemistry and biochemistry should increase.

With the opening in the fall of 1988 of our new undergraduate instructional laboratories for general and organic chemistry, and with the completion of remodeling of other instructional laboratories slated for May 1990, the department and the University have launched a major drive to seek funds to improve and expand the equipment for undergraduate education at all levels. A proposal has been recently completed for acquisition of over $1.7 million of new instrumentation for our undergraduate courses in general, organic, bioanalytical, analytical, inorganic, and physical chemistry; the department is now working with the Indiana University Foundation and with the Development Office of the College of Arts and Sciences to implement this proposal. In addition, there will be available in May a new 2,000-square-foot Teaching Resources Center in Chemistry that we hope can be equipped with the most modern equipment for computer-assisted instruction in our lecture and laboratory courses and that we hope can eventually provide a computer network for sharing educational resources in chemistry with high schools and colleges throughout Indiana.

At the graduate level, the most significant development is a plan to streamline the course requirements for PhD degrees in chemistry. If approved and implemented by the faculty, this plan will lower the total number of hours in formal courses by decreasing the course requirement for the minor field in chemistry to six hours, though the course requirement for the major field in chemistry would remain at least twelve hours.

SHULL HONORARY SYMPOSIUM

An honorary symposium for Harrison Shull was held at Whittenberger Auditorium at the Indiana Memorial Union on October 27 and 28, 1989. It was organized by Professor Ernest Davidson of the Chemistry Department and attended by former colleagues, collaborators, and students of Professor Shull. Harrison Shull is a former faculty member in the Chemistry Department and held administrative positions at IU-Bloomington. He also started the Quantum Chemistry Program Exchange (QCPE), a leading distributor of computer programs for chemists. The symposium was co-sponsored by QCPE and the Upjohn Company.

The symposium began with scientific talks by Per Olov Löwdin, Ralph E. Christoffersen (PhD’64), Lionel Goodman, Michael Kasha, Mel Levy (PhD’71) and James Harrison (Post PhD’66-68). A reception at the University Club of the Indiana Memorial Union followed the symposium. Later that evening, a dinner was held at Jeremiah Sweeney’s in Bloomington, at which Michael Kasha was the after-dinner speaker and Richard Counts, director of QCPE, was host.

The second day of the symposium continued the scientific talks with presentations by Harry Partridge (PhD’79), Alfred B. Anderson (Post PhD’71-72), and Robert Parr. Harrison Shull concluded with some comments about his time at Indiana and the challenges of his present position.

Among other attendees at the conference were the following former associates and students of Professor Shull: Richard E. Brown (PhD’67), Hollace Cox (PhD’67), Stanley Hagstrom (PhD’57, Iowa State), Richard P. Hosteny (PhD’70), Anthony Macias (PhD’67), L.J. Schaad (PostPhD’59-61), Jame S. Sims (PhD’69), and Carol C. Strametz (PhD’72).

DUPONT DISTINGUISHED LECTURE SERIES

The department continues to maintain an extensive lecture series. On a good week there may be as many as eight or nine seminars in the six major fields of chemistry. However, the high points in this smorgasbord of chemical delights are the DuPont Distinguished Lectures. The series was begun this year by Dr. John C. Polanyi, Nobel Laureate and University Professor of the University of Toronto, who spoke on “New Directions in Reaction Dynamics” on September 20, 1989. On October 11 Richard A. Keller, of Los Alamos Scientific Laboratory, talked on “Laser-Induced Fluorescence of Single Molecules in Flowing Sample Streams as an Approach to Rapid Sequencing of DNA.” William Cleland (Grad’51) of the Department of Biochemistry, University of Wisconsin, spoke on November 1 on “The Use of Isotope Effects to Determine Enzyme Mechanisms.” On November 15 Malcolm L.H. Green of the Chemistry Department of the University of Oxford, England, talked on “Studies on Synthesis and Reactivity in the Organometallic Chemistry of the Early Transition Metals.” Robert H. Grubbs, California Institute of Technology, spoke on November 29 on “Polymer Synthesis with Organometallic Reagents.”

NEWS OF FACULTY

Russell Bonham has been elected to a two-year term (1990–92) as a member of the executive committee of the Gaseous Electronics Conference, and has been named to the editorial board of the newly established Journal of the Brazilian Chemical Society.

Ken Busch has left the department to join the School of Chemistry, Georgia Institute of Technology, in Atlanta, Ga.

E. Campagne was twice honored in his 75th year. In addition to the Name Lectureship (see page 6), the September–October 1989 issue of Journal of Heterocyclic Chemistry was dedicated to him, and contained some 20 dedicated papers by colleagues and former students.

Charles Campbell has left the department to join the Chemistry Department at the University of Washington in Seattle.

Ken Caulton continues as program chairman for the inorganic division of the ACS, and, in that role, attended both national meetings. He also lectured at Exxon Corporation, two universities in Utah, and Grinnell College. Ken lectured in France in July, in Italy in September, and spent October as a visiting professor at the University of Nice (France). His research has expanded to include synthesis of molecules which can subsequently be transformed into solid state materials useful for their structural, optical, electrical, or magnetic properties.

Paul Grieco has received the 1990 Arthur C. Cope Scholar Award, established to recognize and encourage excellence in organic chemistry. He will deliver a lecture at the A.C. Cope Symposium to be held August 26–31, 1990, in Washington, D.C. Grieco was also an invited lecturer at the A.C.S. Central Regional Meeting Symposium on Total Synthesis of Natural Anti-Cancer Drugs at Cleveland, Ohio, May 31–June 2, 1989, and at the Pacific Basin Chemical Congress in Honolulu in December. He continues as a member of the N.I.H. Special Study Section, and presented a number of seminars at both industrial and academic laboratories.

Gary Hieftje has won the Analytical Chemistry Division Award in Spectrochemical Analysis sponsored by Perkin-Elmer Corporation for his work on the basic mechanisms of atomic emission, absorption, and fluorescence spectrometric analysis. Hieftje, with his student Kim Marshal (PhD’87) has received the 1988 Pergamon/Spectrochimica Acta Atomic Spectroscopy Award for two companion papers published in Spectrochimica Acta, Vol. 43B. This award is presented to the authors of the most significant article published in a volume of this journal. Hieftje was elected a Fellow of the Indiana Academy of Science this year, and was elected President-elect of the Society for Applied Spectroscopy. He continues on the Chemistry Advisory Panel of the National Science Foundation, on review committees for the Los Alamos National Laboratory, on the Jobin-Yvon International Advisory Board in Paris, and as a consultant for a number of organizations. As usual, he attended quite a number of outside meetings, including one in Paris for the Groupement pour l’Avancement des Methodes Scientifiques. In addition, lectures were given at the University of Illinois, Oregon State University, the University of Connecticut, the University of New Orleans, the Naval Research Laboratory, at several industrial organizations, and at a number of scientific meetings. He was also invited to present a talk at the Vatican. For this a six-person symposium was assembled under the auspices of the Pontifical Academy of Sciences to commemorate the occasion of the 50th anniversary of the founding of Spectrochimica Acta, a journal now published by Pergamon Press. Lastly, he presented a plenary lecture at the International Symposium on Microchemical Techniques held in August in Wiesbaden West Germany.

Ronald A. Hites has established himself as one of the preeminent environmental chemists in the world. He has applied his expertise to issues of public concern through research on toxic chemicals at various sites, the spread of PCBs in the Great Lakes, and the production of dioxins. He is president of the American society of Mass Spectrometry and has been a member of several review panels and committees for the National Research Council, U.S. Environmental Protection Agency, and National Institute of Environmental Health Sciences.

L.L. Merritt, who served as Acting Chairman of the Data Processing and Information Systems Department, IU Northwest, and taught “Analytical Chemistry” and “Instrumental Methods of Analysis” there, had this text, the seventh edition of Instrumental Analysis, chosen as Selection of the Month by the McGraw-Hill Chemists Book Club.

Lawrence K. Montgomery was awarded a DOE Faculty Research Participation Fellowship for the summer of 1989 to continue his collaboration in organic superconductor research at Argonne National Laboratory. He also presented a paper and chaired a session at the Symposium on New Developments in the Chemistry and Properties of Low-Dimensional and Conducting Solids at the 1989 International Chemical Congress of Pacific Basin Societies in Honolulu in December.

Millos Novotny has been named the recipient of the Keene P. Dimick Award, given for noteworthy contributions to gas and supercritical fluid chromatography. The award will be presented to Dr. Novotny during a symposium at the Pittsburgh conference in March 1990.

Peter Ortoleva has received a Guggenheim Award which will permit him to concentrate on research during 1990. He and his students will be developing work on geochemical self-organization. He will also spend some time at Harvard and Montreal, and will complete his books entitled Geochemical Self-Organization and Non-Linear Chemical Waves.

Charles Parmenter has received the 1989–1990 Dean of Faculties Tracy M. Sonneborn Award, given each year to a faculty member who has achieved distinction both as a teacher and as a scholar or artist.

Dennis G. Peters presented the Second Annual Surface Center Lecture in the Department of Chemistry at the University of Cincinnati in April 1989. In May, he gave an invited talk at the Stanley Wawznek Memorial Symposium at the meeting of the Electrochemical Society in Los Angeles. In October, he spoke at Butler University and at the Midwestern Universities Analytical Chemistry Conference held at Miami University in Oxford, Ohio; at Eli Lilly Company in Indianapolis, he attended the annual meeting of the Indiana Alliance of Chemistry Teachers, which he founded several years (continued on page 4)
ago. In March, he traveled with Joseph Z. Stemple (a graduate student who presented two papers) and John C. Bart (an undergraduate who presented one paper) to the Pittsburgh Conference on Analytical Chemistry in Atlanta. In April, he and John Bart attended the First Annual Undergraduate Research Symposium at Butler University; John presented a paper on his research and won first prize in the chemistry division.

Victor Viola was an invited speaker at two symposia celebrating the 50th Anniversary of the Discovery of Fission, held at the Hohn-Meitner Institute in Berlin, and at Gaithersburg, Md., in April 1989. He also spoke at a Symposium on Nuclear Dynamics and Nuclear Disassembly at the Dallas ACS meeting. Experimental programs took him to Saclay, France; Michigan State; and the Lawrence Laboratory at Berkeley. Viola also served on the Lawrence Berkeley Laboratory BEVAC Program Advisory Committee, the Argonne National Laboratory ATLAS Program Advisory Committee, the Lawrence Livermore National Laboratory Nuclear Chemistry Review Committee, and as Associate Editor of Physical Review Letters.

Gary Wiggins has completed the manuscript for the book Introduction to Chemical Information Sources, to be published by McGraw-Hill later this year. He gave invited lectures at Purdue University and at the Dow Chemical Company in the spring of 1989. In September, Gary traveled to Los Angeles to conduct a workshop on the use of the Beilstein database. He has recently accepted the position of Book Review Editor for the Journal of Chemical Information and Computer Sciences. Gary also arranged the June 1990 program for the Fourth Tri-Society Symposium on Chemical Information sponsored by the American Chemical Society, the American Society for Information Science, and the Special Libraries Association. Finally, in November, Gary traveled to Yazoo City, Miss., to consult with Books-for-the-World, the contractor for the American Chemical Society’s Project Bookshare, a program which supplies books and journals to needy libraries throughout the world.

R. Mark Wightman has left the department to join the Chemistry Department at the University of North Carolina at Chapel Hill.

David Williams continues his active research program in new laboratory facilities. He gave an extended lecture tour of five Universities of California in February 1989, as well as talks at the Organic Symposium in June at Cornell, and the ACS meeting in Miami, and at several industrial laboratories. He is serving on seven different departmental committees at present.

NEW FACULTY

E. Campagne

Two new faculty members joined the department in the fall of 1989.

Dr. Stephen E. Creager, analytical chemistry, received his undergraduate education from Rensselaer Polytechnic Institute and his PhD from the University of North Carolina. He most recently held a National Institutes of Health postdoctoral fellowship at the University of Texas where he studied electron transport in model membranes. His research interests involve electrochemistry of chemically modified electrodes, and scanning tunneling and atomic force microscopy for high-resolution surface analysis.

Dr. Theodore S. Widlanski, bioorganic chemistry, has a BA in biochemistry from Columbia, and the PhD from Harvard (1989). He was a DuPont Fellow at Harvard and has an Eli Lilly Summer Faculty Fellowship for 1989 and 1990. His research interests center on the use of enzymes in organic synthesis.

Dr. Josef W. Zwanziger, physical chemistry, who will join the faculty in August, received his BA from the University of Chicago, his MS from Cornell University and his PhD from Cornell University (1988). He was a postdoctoral research associate at Purdue University (1988) and is doing postdoctoral research in the laboratory of Alex Pines at the University of California, Berkeley. His research interests lie in the area of high resolution solid state nuclear magnetic resonance spectroscopy.
CHEMISTRY LIBRARY NEWS

Gary Wiggins
The MLS—Information Specialist in Chemistry Program continues to attract outstanding students. Four students have completed the program since the last report in this newsletter. Beth Capp is now a Technical Information Consultant with The Dow Chemical Company in Freeport, Texas. Texas has also attracted Cathy Starewchik, who accepted a position with Shell Oil in Houston. Two of our graduates have gone to MIT. John Mess is the Assistant Engineering Librarian for Electrical Engineering and Computer Science, and Tracy Primich is Head of the Library at the Whitehead Institute for Biomedical Research. The MLS program received a $2,000 fellowship from the Dow Chemical Company for use by a student entering the program in 1990–91. Furthermore, Dow provided the funds to enable a revised printing of the recruitment brochure.

The Chemistry Library itself felt many effects of the remodeling project in 1989. Although floods, construction noise and dirt, and difficult passage hindered our service, the library maintained a normal schedule. The big news in the library in recent months is the implementation of the online public access catalog. Holdings of all campuses of IU and of all system libraries in Bloomington are included for books cataloged since 1976 and for virtually all serials held by IU. Based on a system developed by Northwestern University, IU’s system is called IO, Information Online. Eventually, IO will include modules for circulation, book acquisitions, and serials.

The Chemistry Library continues to incorporate new technology into its services. We now have a telefacsimile machine (812-855-6611) to speed delivery of needed materials. On November 1, Dr. Reiner Luckenbach of the Beilstein Institute conducted a workshop, “How to Use Beilstein.” The library staff followed up later in the month with training sessions on the Beilstein database and SANDRA. Traditional areas are also being developed. The budget for books and journals has been increased, and some of the journals that were canceled a few years ago have been reinstated. Plans are nearly complete for the remodeling and expansion of the Chemistry Library, to be finished in the summer of 1991.

Dr. Marvin Carmack donated to the Chemistry Library a complete IBM microcomputer system, including a printer. Such donations are greatly appreciated. The IU Libraries are ready to kick off a million-dollar fund drive, the Bob Knight Library Fund, which can receive monetary donations designated for the Chemistry Library. Contact Gary Wiggins for information.

FALL SYMPOSIA AND PICNIC

The traditional inorganic picnic at Harden Ridge continues, and a number of alumni return each year. It would be nice to encourage this further since it brings our current graduate students into contact with alumni, many of whom are known only by name and reputation. Of course it offers all the older people a chance to recapture some of their youth — till the keg runs out anyway. We have been thinking that it might be nice on the Friday afternoon preceding the Saturday picnic to hold an inorganic/organometallic symposium featuring short talks (20–30 minutes) from various of our alumni and posters from our current students. There is no doubt that a diverse scientific program would be available for the afternoon. If you think this would be an interesting option, one that might entice you back to Bloomington, let one of our current inorganic faculty know and we shall take it from there. We would love for you to see our beautiful new quarters on the second floor of the new building — quite a change from the sixth floor.

DENNIS PETERS GETS AWARD FOR EXCELLENCE IN TEACHING

Dennis G. Peters, Briscoe Professor of Chemistry, has just been named the recipient of the 1990 ACS Award for Excellence in the Teaching of Analytical Chemistry. This award will be presented at the American Chemical Society National Meeting to be held in Washington, D.C., in August. A symposium, consisting of a series of papers by colleagues and former students as well as an award address by Dr. Peters, is being organized for the meeting by Professor Gary M. Hietje.

ALEXANDRA NEWTON IS SEARLE SCHOLAR

Alexandra Newton, assistant professor of chemistry, was selected as a 1989 Searle Scholar. She is one of 17 winners chosen from more than 120 newly appointed assistant professors nominated by 75 universities. Each will receive a three-year grant of $180,000 from the Searle Scholars Program of the Chicago Community Trust to help support his or her research. Newton’s research is aimed at understanding how information is received and processed by a living cell through its membrane.
Elizabeth Greene, who has been involved in practically all non-instructional phases of the Department since the 1940s, and Patricia Burner, manager of the Chemistry Scientific Stores, shared the honor of receiving the Chemistry Staff Award for 1989. Miss Greene is presently serving as the departmental archivist and secretary to Drs. Day and Merritt. Mrs. Burner presided over the move of the stores, a feat accomplished with little interruption in the vital services rendered by this important part of the Department.

Ann Martin, another long-time staff member, was awarded 20-year recognition. Mrs. Martin is presently research secretary to Dr. Chisholm.

A major upheaval was caused by the move of various offices, in order that the now-gutted 1930s building be remodeled. The Chairman’s, Business, Graduate, Undergraduate and Placement, and Freshman Offices now have “new,” albeit temporary, quarters. Each office, with the exception of the Freshman, is now located in an old office or lab in the 1960s building. The Freshman Office has the distinction of being in a trailer, south of the new addition, between Chemistry and Myers Hall.

There have been numerous personnel changes. In January, Julie Evard replaced Lisa Williams as Dr. Novotny’s secretary; Marci Briles left the Business Office to work for Dr. Hieftje replacing Lori Barnard. January brought a son to Heidi Nieuwema, Business Office, who did not return from her maternity leave. She was replaced by Tammy Anderson. Anne Bridges assumed a new position with Professor Hayes and Betty Greene joined the Business Office staff. In April, Lori Parham, who transferred from Math, took the vacant position of Betty Greene. Also in April, Lisa Zollars joined the NMR group replacing Teresa Wright-Kester. In May, Barbara Pogoni, administrative assistant in the Chairman’s Office, transferred to Bryan Hall and was replaced by Mary Swarthout; Gayla Bradfield moved into a position in the Chairman’s Office, replacing Mrs. Swarthout. June marked the arrival of a new person in Mass Spectrometry—Paula Wood replaced Carolyn Gaul.

In July, Delbert Allgood took a new position in the Mechanical Instrument Shop; Kathi Figgen, after receiving her PhD in folklore, moved to Research and the University Graduate School as an associate editor of their journal; and Kathy Hirots replaced Tammy Anderson as receptionist in the Business Office. Starting in August, an assistant, Katherine Mann, was added in the Requisitioning Office; Beth McGaw left for Michigan; and Teresa Miller transferred to Research and the University Graduate School. In September, Ruth Droppo replaced the incumbent in Dr. Hayes’ office and Joanne Wood took the position with Drs. Allerhand, Newton, and Widlanski.

Dr. Chung-Ping Yu, recently a post-doctoral fellow at the University of Oklahoma, took over as head of Mass Spec on November 1. Finally, Patricia Stapleton, Graduate Office, became a grandmother, and the Department lost Barbara Gilles, once with the animal quarters and lately in the storeroom. She was replaced by Gina Vertrees.

After a successful staff/faculty/student summer picnic in July, and a snowstorm-abbreviated Christmas party, the Chemistry Department wound up an eventful 1989.

Albert E. Meyers and E. Campagne at the Campagne Lecture.

CAMPAIGNE LECTURE IN ORGANIC CHEMISTRY

Albert I. Meyers, University Distinguished Professor of Chemistry at Colorado State University, presented the first Campagne Lecture in Organic Chemistry on October 18, 1989. The Ernest E. Campagne Lectureship in Chemistry was established as a result of donations by friends, colleagues, and students of Professor Emeritus Campagne. Professor Meyers’ research interests have been in new synthetic reactions, heterocycles as reagents in synthetic chemistry, total synthesis of natural products, and asymmetric syntheses. He has served as chairman of the Organic Division, ACS, and on the editorial boards of JACS and Organic Syntheses. He was awarded the Humbolt Senior Scientist Award (1984–1985), the ACS Award for Creativity in Organic Synthesis (1985), and the Arthur C. Cope Scholar Award (1987).

Professor Meyers spoke on “Asymmetric C-C Bond Forming Reactions” in the new chemistry auditorium at 4:00 p.m., followed by a reception. The lecture and reception were attended by a number of Professor Campagne’s former students, including Burt Appleton (PhD'58), Tal Bosin (PhD'67), Eldridge Faith (Grad'53), Bill LeSuer (PhD'48), Paul Krieger (PostPhD '71–'76) and Dale Mais (MS'77).
Pat Stapleton

The Chemistry Department graduate program is directed by two faculty committees. The standards committee is responsible for the graduate program in the department and was chaired by the graduate adviser, Professor Jack K. Crandall. The other members of the standards committee were Professors Christou, Reilly, Richardson, Wightman, and Williams for the academic year 1988-89. The admissions committee, chaired by Professor Adam Allerhand, included Professors Campbell, Caulton, Ewing, Richardson, and Stryker. Members of this committee read over 300 applications, and, thanks to their efforts, 35 students entered the department in the fall of 1989.

FELLOWSHIP HOLDERS

Five industrial fellowships were awarded to chemistry graduate students during the academic year 1988-89.

Wayne S. Mahoney was the recipient of the AMOCO Fellowship. Wayne was a student of Prof. Kenneth G. Caulton and Jeffrey M. Stryker. His area of research involved organo-transition metal chemistry focusing on applications in organic synthesis. Wayne received a BS degree from Pennsylvania State University. He is currently a postdoc at the University of Illinois.

The General Electric Foundation Fellowship was awarded to John W. Benbow, who received his BS degree from Lehigh University. His research is on the reactions and reactivity of pyruvate oximes/endeavors in natural product synthesis under the direction of Prof. David R. Williams.

Paul A. David received the Lever Fellowship for the second time. His research on physico-chemical studies and biochemical applications of capillary supercritical fluid chromatography was carried out under the direction of Prof. Milos V. Novotny. Paul received a BS degree from Monmouth College. He is a research scientist with AMOCO Research in Naperville, Ill.

The Lubrizol Fellowship was awarded to Arturo Perez Medrano, who received his undergraduate degree from Universidad Nacional Autonoma de Mexico. He is involved in a research project in the lab of Prof. Paul A. Grieco on the total synthesis of jasamide, a novel 19-membered ring cyclodepsipeptide possessing antimi-

crobial, antitumor, and insecticidal activity.

Charles W. Wilkerson, an analytical student working under the guidance of Prof. James P. Reilly, received the Procter and Gamble Fellowship. A graduate of the University of North Carolina, he is investigating the excited state dynamics of certain aromatic molecules.

Three students hold National Science Foundation Fellowships: Mary K. Carroll (a graduate of Union College) is doing research involving novel optical instrumentation for increased selectivity in molecular spectroscopy. She is a student of Prof. Gary M. Hieftje. Andrew Fong (a graduate of Rhodes College) is also a student of Prof. Hieftje. His research concerns a fiber optic probe for near infrared reflectance analysis on an interference filter photometer.

Melissa S. Reeves (a graduate of the University of Florida) is conducting research on the determination of vibronic wavefunctions for methane cation in the research group of Prof. Ernest R. Davidson.

Other fellowship winners were Stephanie T. Chacon, Kirk T. Kawago, and Melissa S. Reeves, Graduate Minority Teaching Fellowships. Joseph M. Campbell and Andrew H. Fray received CIC Minority Fellowships. Harry J. Elston held a Patricia Robert Harris Fellowship.

Graduate School Fellowships were awarded to the following: Anthony J. Borgerding, Edward L. Ciolkowski, Jon L. Collins, Jeanne M. Daviden, Paul J. Galley, Mark S. Krieger, Christopher J. Maxwell, Dawn A. Merritt, Marion L. Mino, David E. Niehaus, Leif P. Olson, Sandra Y. Panshin, Steven W. Pauls, Laura M. Quattrocchi, Stephen C. Racine, and Richard M. White.

DuPont Associate Instructor Award winners are from left: Front row: James Wakefield, Kirk Boraas; Back row: Matt Borer, Jennifer Carson, Jason Poulton.

Felix Haurowitz Award: Sherry Yennello


(continued on page 8)
(continued from page 7)

Willkerson, Sherry J. Yennello, and Lanling Zou.

Other Graduate School Fellowships were awarded to: Wayne S. Mahoney, Summer Research Fellowship; Debra R. Luffer, Second Semester Research Fellowship; Steven R. Maple and Jose A. Rodriguez, Dissertation Year Fellowships.

Ronaldo S. Barbieri held a foreign fellowship from Conselho Nacional de Desenvolvimento Científico e Tecnológico-CNPq.

ANNUAL AWARDS

At the Chemistry Honors Banquet this past spring the following students were recognized: the DuPont Associate Instructor Awards for excellence in teaching went to Kirk S. Boraas, Matt W. Borer, Jennifer E. Carson, Jason T. Poulton, and James B. Wakefield; the Robert Chemin Award for outstanding C500 research went to Jinping Liu, an analytical chemist; Sherry J. Yennello won the Felix Haurowitz Award for excellence in research; James D. Martin received the William Nebergall Memorial Award; and John E. Baur received the Reilly-Upjohn Award.

RECENT PHDS

PhD recipients with area, research professor, and first position accepted for the 1988-89 academic year include the following:


David J. Batal (organic, J.K. Crandall), Unilever, Edgewater, N.J., research chemist.

Ellen B. Brandes (organic, P.A. Grieco), AMOCO Chemical Co., Naperville, III., research scientist.

David L. Brown (organic, D.R. Williams), Rorer Central Research, King of Prussia, Pa., research scientist.

Paul A. David (analytical, M.N. Novotny), AMOCO Research Center, Naperville, III., research scientist.

Martin P. Grendze (organic, L.K. Montgomery), Reilly Industries, Inc., Indianapolis, research scientist.

Scott D. Harvey (analytical, M.V. Novotny), Battelle Pacific Northwest Labs, Richland, Wash., research chemist.

Bryan D. James (biochemistry, N.R. Pace), University of Texas Anderson Cancer Center, Houston, postdoc fellow.

Carol A. Kreader (biochemistry, J.E. Heckman), University of Illinois, Urbana, postdoc fellow.

Eric G. Lundquist (inorganic, K.G. Caulton), Rohm and Haas, Spring House, Pa., research chemist.

Leslie J. May (analytical, R.M. Wightman), Dow Chemical Co., Freeport, Tex., research scientist.


Curtis A. Monnig (analytical, G.M. Hieftje), University of North Carolina, Chapel Hill, NSF Postdoctoral Fellow.

Ravi P. Nargund (organic, P.A. Grieco), Columbia University, New York, postdoc.

David T. Parker (organic, P.A. Grieco), Columbia University, New York, postdoc.

Joseph E. Pelati (inorganic, R.A.D. Wentworth), Dow Chemical Co., Freeport, Tex., research scientist.

Lawrence M. Principe (analytical, P.D. Magnus), Johns Hopkins University, Baltimore, instructor of chemistry.

Dale L. Rieger (organic, D.R. Williams), Harvard University, Cambridge, Mass., American Cancer Society postdoc.

Jose A. Rodriguez (physical, C.T. Campbell), Texas A&M University, College Station, postdoc.

Michael P. Squicciarini (organic, J.J. Gajewski), Pennzoil Technology Division, Woodlands, Tex., research chemist.

Reginald O. Stanton (biochemistry, J.E. Heckman), Dillard University, New Orleans, La., Assistant Professor of Chemistry.

John B. Vincent (inorganic, G. Christou), University of Virginia, Charlottesville, postdoc.

David S. Waugh (biochemistry, N.R. Pace), Massachusetts Institute of Technology, Cambridge, postdoc.

MS RECIPIENTS

David J. Anderson (R.A. Hites); Heidi M. Berven (P.A. Grieco); Linda L. Dean (K.L. Busch); Donna K. Mahnke (A.S. Lewin); Kenneth E. Mennen (J.K. Crandall); Mark E. Phillips (R.M. Wightman); James H. Smith (W.T. Jenkins); Kenneth J. Tupper (P.J. Orteleva); Matthew L. Vincent (D.G. Peters).
**UNDERGRADUATE NEWS**

**W.T. Jenkins, H.W. Willett**

During the 1988–89 school year Professor W. Terry Jenkins served as coordinator of undergraduate studies, Holly Willett as academic counselor, and Janice Bishop as office secretary.

The number of declared Chemistry majors dropped slightly from 521 in 1987–1988 to 503 in 1988–89. The number of graduating seniors dropped from 148 in 1987–88 to 137 in ‘88–89 (90 with BA degrees, 29 with BS Biochemistry degrees and 18 with BS Chemistry degrees). C & E News reported that Indiana University produced more new bachelor chemistry graduates (148) during the 1987–88 academic year than any other school in the country. Since 1978–79 Indiana University has ranked either first or second on this list of new chemistry bachelor graduates.

Twenty-nine students participated in our Chemistry Honors Program during 1988–89, and 44 students engaged in C409 Undergraduate Research. Forty-nine graduating seniors went on to medical school, five to dental school, twelve to graduate school in chemistry, six to graduate school in other science-related fields, three to MBA programs, and 42 to industry.

The Chemistry Cooperative Education and Internship Programs are under the direction of Ms. Kathy Reithaer and Mr. Ed Detamore at the Career and Placement Support Service Office. These programs continue to be attractive options for chemistry majors.

The following undergraduate students were honored at the Chemistry Honors Banquet:

The Outstanding Senior Awards went to John C. Bart and Christopher S. Stipp. Jeffery W. Orr received The William B. Bell Award, and Andrew M. Ratz was awarded the 1988–89 Courson-Greaves Prize. Michael J. Dart and Michael H. Hodsdon received Joseph B. Schwartzkopf Awards, while Mark A. Pierce and Gregory S. Nadol received Frederic C. Schmidt Awards. Lucinda R. Hittle received an award from the Southern Indiana Local ACS section, and Dar‐ rius L. Joiner and William E. Newsom were recipients of 3M/George Washington Carver Scholarships. Cooperative Education Certificates were awarded to Lisa M. Albrecht, Jeana M. Bissonnette, Steven W. Kincaid, and Lawrence C. McBride, and the Outstanding Senior Awards: Christopher Stipp, left, and John Bart

Lilly Undergraduate Summer Research Scholarship and Courson-Greaves Prize: Andrew Ratz

Verling M. and Elizabeth Votaw Award was presented to Eyal H. Barash. Tiffenie A. Larkins received the Bill Mays Award. Merck Indexes were presented to Jerrie L. Brewer, Alan P. Ladd, and Robert E. Smith.


Ira E. Lee Summer Research Scholarships for full-time summer research for 1989 were awarded to Jeanne L. Kuhler, Aaron C. Sousa, Dean P. Stamos, and Mary C. Yoder. Harry G. Day Summer Research Scholarships for full-time research for summer 1989 were awarded to Eyal H. Barash, Greg P. Brenget, Jason M. Henderson, Thomas M. Koenig, James S. Sholef, and James P. Staszewski. Honors Division Summer Scholarships for 1989 were awarded to Colin E. Chang, Bradley W. Davis, Alan P. Ladd, Jeffrey W. Orr, Robert E. Smith, and Michael J. Wilson. The Lilly Undergraduate Summer Research Scholarship for 1989 was awarded to Andrew M. Ratz.

Recipients of CIC Summer Research Scholarships were Fred Te Ning Chin and Noel S. Murcia.

Joseph B. Schwartzkopf Award: Michael Hodson, left; American Chemical Society Award: Lucinda Hittle

Six students were recognized as superior in various freshman chemistry courses, and received bookstore certificates. Twenty-six chemistry majors were elected to membership in Phi Beta Kappa. Twenty-eight seniors, 28 juniors, and 27 sophomore chemistry majors were on the Departmental Honor Rolls.

In 1988–89 the Chemistry Placement Office hosted 42 companies. These companies conducted a total of 574 interviews. The companies included: Abbott Labs, Aldrich Chemical Co., American Cyanamid, AMOCO, BASF
Undergraduate Summer Research Scholarships were awarded to (from left): Back row: Jason Henderson, James Statzewski, Alan Ladd, Robert Smith, Bradley Davis, Colin Cheng, Michael Wilson; middle row: Jim Sholeff, Catherine Yoder, Noel Murcia, Eyal Barash; Front row: Jeffrey Orr, Andrew Ratz.

(continued from page 9)

NOVOTNY DISTINGUISHED RESEARCH LECTURER

Indiana University, on Wednesday, April 5, 1989, honored one of its outstanding research scholars by designating Professor Milos Novotny as Bloomington Distinguished Research Lecturer for 1989. Professor Novotny was given this honor not only for his personal achievement as a research scholar, but as an outstanding representative of the community of scholars at Indiana University. The annual lecture provides an opportunity for an individual research scholar to share his or her work with scholars from across the University community and provides the University with an occasion to pay tribute to its most distinguished researchers.

Professor Novotny, Rudy Professor of Chemistry, has been on the IU faculty since 1971. His laboratory at IU has become an internationally renowned center of research in separation science, and he has received many honors and awards for his research accomplishments. His lecture was entitled "Chemical Communication in Mammals: The Difficulties and Rewards of Interdisciplinary Research."

Forty-seven companies have interviewed through the Chemistry Placement Office during the 1989-90 recruitment season. Holly Willett continued as Chemistry Placement Office Manager.

Fréderic C. Schmidt Award co-winners: Gregory Nadol, left, and Mark Pierce.
Eugene H. Cordes, is President of the Sterling Research Group of Sterling Drug Inc. Both he and his wife, Shirley, were strong admirers of Felix Haurowitz and frequently extolled his greatness as a scientist and colleague. At their request two more books from his library are being given to them by the Department. For some time Shirley worked directly with this great immunohistologist and savant in biochemistry.

Frank and Ruth Gurd are settled at 2032 Quail Run Drive NE, Albuquerque, N.Mex. 87122, at the foot of Sandia Peak. They are enjoying the rich cultural, anthropological and archaeological life of the region. Ruth is writing a story about diabetes for Native Americans, who are especially susceptible.

Richard Jacobson remains at Rohm and Haas Research and gave a paper on insecticide chemistry last summer at Oxford, England. Marilyn has been involved in textbook writing. Both of them attended a mathematics convention in Florida.

Phil and Andrea Magnus have settled into an apartment five minutes from the University of Texas–Austin campus. He is busy outfitting another laboratory, which will soon be completed.

John W. Moore, and his versatile wife Elizabeth, became notably productive in chemical education at Eastern Michigan University. Recently they have moved to the University of Wisconsin at Madison where he is the director of its Institute for Chemical Education and Mrs. Moore is the manager of the Institute’s Project Seraphim, which the Moores developed in 1982 at Eastern Michigan. This aspect of the Institute focuses on collecting chemical education software and recording them on discs for distribution to teachers. About 12,000 teachers receive the project’s catalog and a newsletter written by Mrs. Moore. The Fall/Winter 1989 issue of On Wisconsin highlighted science education, including the contributions of the Moores.

Walter J. Moore retired from the faculty at the University of Sydney, Australia, in 1984. Since that time he and Patricia have spent a part of each year as residents of Bloomington. They are maintaining homes both in Bloomington and in Sidney, spending most of the warmer weather in the warmer climates. One of his major projects since retiring has been the extensive study of the life and work of Erwin Schrödinger. His new book, Schrödinger: Life and Thought, has been published by the Cambridge University Press, and has been receiving excellent reviews. Walter presented a very interesting lecture in the Chemistry Department at IU on this subject.

Royston M. Roberts, Visiting Professor ’61, has authored “Serendipity: Accidental Discoveries in Science” (Wiley, 1989, $12.95) which the reviewer (G.B. Kauffman) in C&EN (Dec. 4, 1989) refers to as “fascinating” and “spellbinding.” The two-page review asserts that none of the other books on this subject “compares with Roberts’ book in terms of the number of serendipitous discoveries.” Dr. Roberts is professor of chemistry at the University of Texas.

Ralph L. Shriner, chairman from 1941–46, received a barrage of congratulatory and appreciative letters from many of his IU graduate students and others last October to help him celebrate his 90th birthday. More than 20 such students, one staff worker (E. M. Greene), and five retired faculty members (J. Billman, E. Camaigne, H. Day, C. Kaslow, and L. Merritt) are living. All except Billman and Day were appointed by Shriner. His wise and unselfish influence continues here and in diverse places. He is widely appreciated.

VISITORS TO THE ALUMNI/ARCHIVES OFFICE

With the move of our office to the sixth floor of the ’64 addition and the ensuing confusion, not many alumni found their way to the office. Among those who did were Burton Appleton, from Alexandria, Va., who was here to help celebrate the initial E. Campaigne Lecture given in October; Phillip, PhD’66, and Nancy Cords, from Delaware; Sankar K. Datta, PhD’59, all the way from Bombay, India; Roger Johnson, PhD’66, from North Andover, Mass.; Mike Junker, BA’64, from Baton Rouge; Jerry Skowronski, MS’73, now in LaGrange Park, Ill.; Mary Frechting White, BA’43, and James C. White, BS’43, both of Knoxville, Tenn. When we move into more permanent quarters near our former location we hope that many more of our alumni will stop by to visit and bring us up to date on their activities.

ARCHIVAL ITEMS AVAILABLE TO ALUMNI DONORS

The many generous contributions of Friends of Chemistry make large differences in the capability of the Department in responding effectively to student needs and various opportunities for further development. In gratitude, donors who express interest will be given copies of historical and biographical articles written by certain retired members of the chemistry faculty. Also, in the degree that they may be available, books from the libraries of F. Haurowitz and F. Mathers will continue to be distributed. The biographies include H.T. Briscoe, F.T. Gucker, Paul Isobe, R.E. Lyons, F.C. Mathers, and T.A. Wylie.

SOCIAL HOUR

Among those who attended the Social Hour in Miami in September 1989 were the following, who signed our guest book:

Peter Brown, PostPh’82–84, from Chapel Hill, N.C.; Sue and Jim Copp, BA’73, PhD’81, from Rockville, Ind.; Jim Corning, PhD’84; Linneaus Dorm, PhD’61, from Midland, Mich.; Tax Georgiadis, BS’83, from Los Angeles;

George Ham, PhD’44, from Briarcliff Manor, N.Y.; Jim Hickey, PhD’77, now residing in Ann Arbor, Mich.; David Leland, BS’71, MS’73, from Verona, Wis.; Joe Pelati, PhD’88, from Richmond, Tex.; Allen Siedle, PhD’73, from St. Paul; Scott Smith, BS’75, from Baton Rouge; D.A. Templer, PhD’68, now a resident of Miami; Kyte Terhune, BS’80, from Houston, Tex.; K.J. Tupper, MS’88, and Jack Shiner representing the faculty.
Norman Abood, PostPhD’87–89, has taken a position with G.D. Searle & Company, Chicago.

Paul W. Abramowitz, BA’72 (Biology-Chemistry), since 1986 has been Associate Professor in the College of Pharmacy and Director of Pharmaceutical Services (Clinical chief) at the University of Minnesota. He received his PharmD at the University of Minnesota in 1979. Among his many professional services at the University of Minnesota and elsewhere have been consultantships, which include the Veterans Administration Hospital in Minneapolis; Hospital Pharmacy Advisory Board in Overland Park, Kansas; and the Hospital Pharmacy Board of a pharmaceutical company in Minnesota. With others and alone he has published more than 25 articles in pharmaceutical journals. He has made many scores of invited presentations at state and national meetings of pharmacists.

Kazl Ahmed, PhD’86, is now on the faculty at the University of Vermont.

Mark R. Anderson, BS’83, became Assistant Professor of Chemistry at Virginia Polytechnic Institute and State University in 1989. After completing his PhD at the University of Wisconsin in 1987, he did postdoctoral work at the University of Utah. Among his several recognitions at IU, he was designated the Outstanding Senior Chemistry major in the Class of 1983.

Burt Appleton, PhD’58, attended a reunion of his CCC group in Montana this past summer. He keeps active policing the FDA.

Yoshitsugu Ari, PostPhD’88–89, returned to his position at Toyama Medical & Pharmaceutical University, Toyama, Japan.

Douglas Armstrong, BS’63, received a Faculty Travel Award from the Division of Organic Chemistry, ACS.

George H. Atkinson, PhD’70, has just finished a five-year term as chairman of chemistry at the University of Arizona. He has been honored with a Humboldt Prize from West Germany for distinguished scientific achievement. Presently he is on sabbatical leave in Germany at the Technischen Universität München.

Ram Bedi, PhD’60, and his family’s firm 2V Industries, Inc., have now acquired patent rights from his former employer on metal patching that Ram developed for the firm. Samples produced through this process are expected early in 1990. Other developments show promise.

Samuel Berkowitz, MS’63, is an executive with Arizona Chemicals, a division of International Paper. He lives with Gladys in Panama City, Fla.

George Bodner, PhD’72, was one of the two chemistry alumni who received the 1989 Chemistry Manufacturers Association Catalyst Award for teaching excellence. The honor to him and his experiences in teaching general chemistry were recently headlined in the Indiana Alumni Magazine. He is head of the Division of Chemical Education at Purdue. At IU his principal mentors were R. Schaeffer and L. Todd.

Tal Bosin, PhD’67, on the first of July became Acting Director for the Medical Sciences program at Indiana University-Bloomington. He has been a member of the faculty for this program for several years.

Ludwig Brand, PhD’60, is Professor of Biophysics and Biology at Johns Hopkins U., where he has spent most of his years since leaving H. Mahler’s laboratory nearly 30 years ago. He continues to advocate the graduate program in biophysics at Hopkins, which is closely integrated with the departments of chemistry and of biology.

Merton H. Brooks, BS’47, AM’49, is now a consultant in energy management at Ceramic Processes, and he lives in Albuquerque, N.Mex. At IU his principal mentor was E.C. Mathers. In April he was in Indiana to attend the meeting of the American Ceramic Society. Like many admirers of Dr. Haurowitz, he requested and received a book from the Haurowitz library.

Ralph Bruner, BA’45, was the recipient of an Award of Scientific Merit by the American Foundrymen’s Society at its annual meeting in 1989. He is the author of countless articles on nonferrous processes and he has contributed to several textbooks.

Walter M. Budde, MS’47, and Jacqueline Hyberg Budde, MA’49, are both at the stage of retirement. He retired from Viking Chemical Company, a division of M&T in 1989, and in 1990 Jacqueline will leave her longtime position as librarian at the Hormel Institute. Presumably Walter will devote more time to his violin and memories of the occasional times when he played it in the Chemistry Building at IU.

Lyman R. Caswell, MA’50, and Ruth continue to be on the faculty at Texas Woman’s University. He gave a paper at the recent Southwest Regional meeting of the ACS. In October he attended the national meeting of the History of Sciences Society.

David L. Catlett, PhD’86, has joined the research and development laboratories of Texas Instruments, Inc., in Dallas, Texas.

Ralph E. Christoffersen, PhD’64, has held several important academic administrative positions, contributed much in scholarly research—especially in molecular quantum mechanics and biotechnology—and he has received significant honors. Since leaving the presidency of Colorado State University in 1983 he has served as Director of Biotechnology, Executive Director of Biotechnology, Vice President for Biotechnology and Basic Research, and Vice President for Discovery Research at the Upjohn Company. Since August his title has been Vice President, Research, at SmithKline, Beecham Pharmaceuticals. In this new position he is responsible for all U.S.-based pharmaceutical research activities as well as for all biotechnology departments of the organization in the U.K. He was an active participant in the symposium honoring Harrison Shull and directed by Ernest Davidson, PhD’61.

Donald J. Cook, PhD’44, and Marian celebrated their golden wedding anniversary last September. Soon after completing his PhD he joined the faculty at DePauw University where he is Professor Emeritus of Chemistry.

Carl W. Cotman, PhD’68, is one of the five members of the Selection Committee for the determination of the recipient of the 1990 Bristol-Myers Squibb Award of $50,000 for an outstanding career in neuroscience. He has been at the University of California, Irvine, since 1968 and is now Professor of Neurochemistry and Molecular Psychology.

S. Kumar Datta, PhD’59, visited R. Degil, PhD’55, in France last November. His company is manufacturing plastics additives and they are seeking export markets.

Chester Davis, BS’44, has moved from Newport, Ky., to Springfield, Ohio 45503 (2428 Rebecca Drive) where he has better opportunity to keep in touch with fellow chemists and laboratories in which he has special interests. He comes to IU frequently where he is indeed welcome.

Alan Dinner, PhD’70, is one of three executive directors at Eli Lilly to report to the vice president of environmental affairs, quality control, and quality assurance. Stanford Cox, BA’57, director of production control, reports directly to Dr. Dinner in his work at Lilly.

Michael P. Doherty, MS’83, has accepted an appointment as assistant professor at East Stroudsburg University in Pennsylvania to begin in fall 1990.

David Dolson, PhD’82, has recently moved to a faculty position in chemistry at Wright State University, Dayton, Ohio.

Bryce Douglas, PostPhD’53–55, in the Carmack group, among his many responsibilities, is a member of the advisory board of the Arnold and Mabel Beckman Center for the History of Chemistry. He is a retired vice president of the Smith, Kline Beckman Corporation.

Bryan Eichhorn, PhD’87, is on the faculty at the University of Maryland.

Raleigh C. Farlow, BS’75, after completing his MD degree, has become an environmental scientist with an engineering firm in Seattle, Wash. At IU he did extensive undergraduate research in the Novotny group.

James Ferris, PhD’58, visited the Eidgössische Technische Hochschule in
Zürich, Switzerland, in early December and visited with Professors Eschenmoser and V. Prelog.

Thomas Fink, BA'65, spent 13 days in the USSR consulting with the Ministry of Oil & Gas Construction at their invitation and visiting some Arctic oil fields north and east of Moscow.

Ed Flexman, PhD'67, whose task force led the development of Super-touch Delrin for DuPont, now has several patents and is much involved worldwide in connection with DuPont polymer production.

William Foye, PhD'48, having finished the 3rd edition of his textbook on medicinal chemistry a year ago is now involved in writing or editing two other productions. He has accepted a request to edit a full-scale work on anticancer agents. He is chair-elect of the Pharmaceutical Science Section of the AAAS.

Donald Gaines, PhD'63, has been a member of the chemistry faculty at the University of Wisconsin for several years. As reported in the Badger Chemist for 1989, he gave a session lecture at the 11th International Meeting on Boron Chemistry at Bechyné, Czechoslovakia, in 1987. He has been making other equally important presentations.

Paul Galatsis, PhD'87, has accepted a position as assistant professor in the Department of Chemistry and Biochemistry, University of Guelph, Ontario, Canada.

Greg Georgiadis, BSc'80, MD'84, has spent the year as a fellow in orthopedic traumatology at the Cleveland Clinic. He is looking for an academic position in his field. He writes that his sister Rosina, BSc'82, has completed the PhD at Berkeley in physical chemistry and is doing post-doc at Eugene, Ore. Brother Taxiadis, BSc'83, has completed the PhD in organic chemistry at UCLA.

Katy, BSc'86, is doing graduate work at Santa Cruz, and father Minas, PhD'64, hopes to spend another sabbatical in the US this year. He appears to have one of the most productive research teams in medicinal chemistry in Greece.

Jack Gill, PhD'63, is President of the Lamar University Foundation Board and has been active in helping to set up the Gill Endowed Chair of Analytical Chemistry at Lamar. He has recently been appointed to the Advisory Committee to the Dean of the College of Arts and Sciences of Indiana University.

Charles J. Guare, PhD'53, expressed himself well and appropriately in a letter to the editor in C&EN last year. Our alumni with such scientific qualifications and objectivity have a duty to express themselves on important public policy matters as he has done. He was a research scientist at Schenectady General Electric for 27 years and well over half of that time was at the Knolls Atomic Power Laboratory. L. L. Merritt was his research adviser at IU.

George Ham, PhD'44, left employment in industry almost 20 years ago and became a consultant to the Plastics and Chemical Industries. Over the years he has published widely in polymer chemistry and he has obtained numerous patents. At IU George, working on compounds of the rhodamine and phenothiazine groups, was one of the first students to receive a doctoral degree under the master, R.L. Shrinier.

Mark E. Hayes, BA'63, is a Systems Analyst at Eli Lilly & Company. He participated in an Alpha Chi Sigma induction in the Department in April 1989.

Ross Melvin Hedrick, PhD'47, spent virtually his entire professional life with Monsanto before retiring in 1986. Most of the time was in new product research and development. He was Distinguished Fellow during his last 15 years. At IU he was much influenced by R.L. Shrinier, especially his instruction in polymer chemistry. Most of his 80-plus U.S. patents are on polymers. He devotes time to consulting, especially for a Netherlands company that produces NYRIM, which he developed at the Monsanto company.

Lenore (Spencer) Holladay, MS'72, has left her position as Associate Professor at Louisiana Polytechnic Institute because her husband has joined Beckman Instruments as a principal research chemist at Palo Alto, Calif. At IU her degree work was directed by H.R. Mahler. During her last year she was a research technician for F. Haurowitz for whom she had high admiration. At her request she has been given a valued book from the F. Haurowitz library.

Keith M. Howell, PostPhD'60-61, and his wife Shirley have a talented 22-year-old son, James, who has become an international genius in chess. At five he received the fundamentals from his father. Recently he emerged from a tournament in Russia as "the top foreign competitor."

Tony E. Hugli, PhD'68, has edited Techniques in Protein Chemistry, a 612-page volume based on expanded abstracts from the symposium of the Protein Society held in August 1989. The first printing was soon sold out. Tony is now an elected member of the Executive Council of the Protein Society. The organization has over 2,000 members. F. Gurd was Tony's director at IU.

Anna Chu Hui, MS'80, is in the Department of Pharmacology and Cell Biophysics at the University of Cincinnati College of Medicine, and David Y. Hui, PhD'79, is an Associate Professor of Pathology at the same school.

Jim Hutchinson, PostPhD'78-79, writes that Middle Tennessee State is becoming a major university with over 14,000 enrolled, and chemistry classes increasing likewise.

Bryan James, PhD'88, has been appointed as Project Manager in the Physiological Diagnostics Division of Abbott Laboratories after serving as postPhD at the University of Texas, Houston.

Takeo Kawabata, PostPhD'83-85, recently left the Sagami Chemical Research Center to join the faculty at Kyoto University.

Sheila Kissel, BA'85, is teaching chemistry at Ben Davis High School, Indianapolis.

Alan E. W. Knight, PostPhD'73-75, an Associate Professor at Griffith University, Brisbane, Australia, has been honored with his election as a Fellow of the American Physical Society.

Eric Kristensen, PhD'87, is employed at the Abbott Laboratories.

George Kriz, PhD'66, on the faculty of Western Washington (state) University, has completed a new edition of a textbook, Introduction to Organic Laboratory Techniques: A Microscale Approach, in collaboration with co-authors Pavia, Lampman, and Engel, published by Saunders. The text has many unique features, including essays on modern topics of organic chemistry.

Werner G. Kuhr, PhD'86, Assistant Professor at the University of California, Riverside, was named a Presidential Young Investigator last spring.

William LeSuer, PhD'48, is recovering from cataract lens implant surgery, and has at last given Arlene her own level house. Their new address is 6514 Foxboro Drive, Cleveland 44143. Bill plans to go on a church building project in Kenya in February.

Paul R. Loconto, MS'73, is now Director of Research and Development for Nanco Laboratories. At IU he was outstanding as an Associate Instructor. From 1974 to 1986 he taught at Dutchess Community College, Poughkeepsie, N.Y., while completing his doctoral degree in analytical chemistry at the University of Lowell. His doctoral thesis was "Hydrophobic Interactions on Solid Surfaces as a Means to Isolate Environmentally Significant Analytes at Trace Concentrations in Water."

Ted J. Logan, BA'53, each year represents his company, Procter & Gamble, in presenting Graduate Student Research Awards. This year there were three top winners in the special session for graduate students at the spring 1989 meeting of the American Institute of Nutrition.

Dale Mais, BSc'74, MS'77, Phd'83 (Pharmacology), joined the department of cardiology of Lilly's in January 1989.

Max Marsh, BSc'47, completed a very successful year (1988-89) as president of the College of Arts and Sciences Alumni Association. On August 12 he and Jane Mitchell were married in Carmel, Ind. They live in Bloomington, and Max devotes much time to research, especially in the Chemistry Computational Center, seminars, and service on some departmental committees.

James B. Matthew, PhD'78, left DuPont's Experimental Station in 1989 and became Manager of Structural Chemistry in the Medicinal Chemistry Department of ICAmerasics Inc. at Wilmington, Del. Beginning with his doctoral thesis research here under the direction of F. Gurd, with various associates he has published approximately 50 scientific contributions that focus on electrostatic and dynamic aspects of macro-molecular recognition.

Don Maulding, PhD'62, has been traveling (Holland, Spain, England, Brazil, Argentina) a lot this year for American
Cynamid. He expects to spend at least three months in Argentina in 1990.

Dana Mayo, PhD'57, described in C&EN (May 8, 1989) as "perhaps the leading exponent of microscale experiments," was honored in 1989 by receiving the Manufacturers Association National Catalysts Award for his pioneering and fruitful contributions in the development and encouragement of microscale procedures in teaching organic chemistry.

William Mays, BA'70, MBA'73, president of Mays Chemical Company, Inc., continues to receive high recognitions and further responsibilities. These include the designation in 1988 of entrepreneur of the year by Venture Magazine. In 1989, among other recognitions, he was the recipient of a Distinguished Alumni Service Award and he was appointed Indiana's Gov. Bayh to the state's new lottery commission.

Stephen McCann, PostPhD'87-89, has accepted a post with E.I. DuPont in Newark, N.J.

Astley McLaughlin, PhD'81, is involved in many aspects of the government of the Cayman Islands. He is making a compilation of all medicinal plants of the islands.

John L. Meisenheimer, PhD'63, has been a member of the chemistry faculty at Eastern Kentucky University almost continuously since he graduated from IU. In 1989 he was the first recipient of the Alumni Award for Teaching Excellence presented by the Alumni Association of Eastern Kentucky University. This was followed by recognition at the Spring Commencement.

Wayne R. Merriman, BS'52, was for many years an official in the Great Lakes Chemical Corp. Following his "retirement" he and Ruth have been in Hawaii two and a half years where he has been teaching International Business Strategy at the University of Honolulu. Teaching ended in 1989. He will now devote much of his time with Wabash Makai Associates, their consulting company, that specializes in international business, particularly with Japan. After October 1990, their winter home will be in Naples, Fl., but their permanent and legal residence will continue to be in West Lafayette, Ind.

John W. Morgan, BA'63, was promoted last year to Associate Director of P&G's pharmaceutical division in Norwich, N.Y. Alison, the daughter of Judy and John, is a student at IU.

David B. Moss, PhD'87, has accepted a faculty position in physics at Lynchburg College, Lynchburg, Va. He was formerly a postdoc at Cornell University.

Rod Moss, PhD'S1, is enjoying retirement in Prescott, Ariz., and especially likes skiing in Purgatory. It must have been his graduate school training which give him a taste for that.

Ravi Nargund, PhD'88, is now doing a postdoctoral with Gilbert Stork at Columbia, and plans to accept a job with Merck Sharp and Dohme in the spring. He expects a visit from his parents in the spring. His father, Dr. P. K. Nargund, did postdoctoral work at IU from 1961 to 1963.

Richard Otter, PhD'46, was one of R.L. Shriners's many successful graduate students at IU, but unlike others he became primarily engrossed in mathematics. After two years at Princeton he joined the mathematics faculty at Notre Dame and remained active there until 1985 when he retired. The Otters have two children, both of whom have doctoral degrees, one in medical genetics and the other in cell biology.

Mary Patterson, PhD'84, is now a member of the Technical Staff, Consumer Products, Bell Laboratories, and is located in Indianapolis.

William Paulder, PhD'59, Dean of the College of Arts and Sciences of the University of Portland, with his wife, spent some time this October on a Fulbright grant in Yugoslavia and Austria.

Elsa P. Paulsen, MA'45, continues to lead a group at the University of Virginia School of Medicine in the development of understanding and protection of teenage insulin-dependent diabetics who are acquiring diabetic nephropathy. Besides her publications in 1989, her traveling activities included two lectures on her work in New York in September. The first was before the New York Pediatric Endocrinological Society and the second was the Henry L. Barnett Lecture at the Albert Einstein School of Medicine.

Eduardo Peixoto, PhD'68, is editor of the newly established Journal of the Brazilian Chemical Society. Although the Society is the largest in Latin America, this is its first venture in publishing a scientific journal. It will be in English.

Frank P. Popoff, BA'57, MBA'59, among his many responsibilities, has become a member of the advisory board of the Arnold and Mabel Beckman Center for the History of Chemistry.

James K. Rice, BS'63, Linda, and their two college-age daughters have many and diverse productive interests in Albuquerque, N.Mex. He has been with the Sandia National Laboratories 20 years. This called for a celebration. His non-Sandia activities include golfing, hunting, and teaching mid-highs in their church.

Wendell Roelofs, PhD'64, and a younger associate at the New York State Agricultural Experiment Station have responsibly intervened in the public actions concerning the promotion of safety in the control of agricultural pests. An example is their long and cogent letter on pheromones to the editor of the New York Times on July 13. Because pheromones have extraordinary importance, the authors wisely called attention to the need for revisions in pesticide regulations that will properly permit more effective use of such biological pesticides, which are environmentally safe. The name Roelofs is exceptionally prominent in investigations on pheromones. For example, he and H. S. Gutowsky, BA'40, are the only IU chemistry alumni who are recipients of the highest national honor, the National Medal of Science. Wendell was married on December 23. He and Donna spent their honeymoon in the Caribbean.

Melody Rooney, BS'83, after receiving her PhD at Wisconsin, has become Senior Staff Chemist at the Mobil Research and Development Corp. in Dallas. She and her geophysicist husband are assigned to the Mobil Organic Geochemistry Group, where she is specializing in carbon isotope geochemistry. In this connection she was a guest briefly of Prof. John Hayes at IU in December to examine his new isotope ratio mass spectrometer.

Mark Selby, PostPhD'84-86, has received an appointment in the Center for Analytical Sciences and Department of Chemistry at the Queensland University of Technology in Australia.

Ryu Shinke, PostPhD'62-63, is a professor in the Faculty of Agriculture at Kobe University, Japan. He attends scientific meetings occasionally in America and Europe as well as elsewhere in the world. Last August he and his wife met H.G. Day at the International Congress of Nutrition in Seoul, Korea. Two months later he led a group of fellow Japanese scientists on a visit to several European countries "on inspection of biotechnology institutes, companies, and laboratories."

Greg Shuttske, PhD'75, has been promoted to Principal Research Scientist at Hoechst-Roussel, and plans to give an ACS talk in Boston.

William Simonsick, PhD'86, and Crystal Smith, PhD'86, are the very proud parents of a 9 lb., 5 oz. baby boy born in December.

Jerry Skowronski, MS'73, visited the department with his wife Angie in the fall. He is planning to talk on forensic chemistry at the January ACS meeting in Cincinnati.

Fredrick M. Stein, PhD'70, is now Director of PRISM (Philadelphia Renaissance in Science and Mathematics), a city-wide program to upgrade the teaching of science in the public schools. He was previously Dean of the School of Natural and Social Sciences at Western State College of Colorado.

Helen Merriam Stewart, MA'46, with her husband Bill, plans to return to Costa Rica briefly in March to participate in a church-sponsored housing project. Several years ago they were in Costa Rica on an agriculture project as Peace Corps Volunteers.

Jack H. Stocker, MA'47, Professor of...
Chemistry at the University of New Orleans, in 1989 was elected to the chairmanship of the ACS's History of Chemistry Division.

Meng-Chih Su, PostPhD'86-88, has accepted a faculty position in analytical chemistry at Butler University, Indianapolis.

Jimmy Tai, PhD'80, in fall, 1989, received an achievement award from the scientists group of the Michigan Applied Science & Technology Laboratories. The award was for his pioneering work in the development of a new class of process agricultural chemicals.

Kenneth Y. Tang, PhD'73, is Senior Vice President of Thermo Electron Technologies, a company engaged in contract research. He is in charge of their San Diego research operations.

Martin Lee Thompson, PhD'64, was named acting dean of the faculty at Lake Forest College, for 1989-90. He has been on the faculty at the Forest since completing his work for the PhD and has held visiting professorships/research at Northwestern University, the University of Virginia, the University of Colorado, and the University of Sussex in Great Britain.

Charles Tilford, PhD'43, came to this department with R.L. Shriner. He was one of the many Shriner students who participated in the 90th birthday party-shower of letters for the stereochemist. Following his many years in industrial medicinal chemistry and his four years as a visiting professor at Emory University, he has retired. But he continues to be active. Since retirement he has become very interested in horticulture, having completed a degree in the subject at Emory University. He is now serving as chairman of the beautification committee at Daytona Beach.

Martin J. Wagner, PhD'58, was recently recognized for 30 years service on the faculty of the Baylor College of Dentistry. During most of those years he was chairman of the Department of Biochemistry from which he stepped down in 1987. In 1989 he completed a three year cycle as an officer of the AADS Section on Biochemistry and Nutrition. His research at IU, with others, focused on fluorides and dental health.

Marlon Walker, MS'83, who received his PhD from Georgia Institute of Technology in '87, is now employed at the National Institute of Standards in Gaithersburg, Md.

M.C. Wani, PhD'62, hopes to see his camptothecin and taxol in clinical trial before he retires from the Triangle Research Institute.

Lawrence E. Weaver, II, BA'84, DDS'88, reported for active duty in the Navy at Camp Lejeune, N.C., in March 1989.

Charles Weber, PhD'53, has been at Oak Ridge most of his professional life and he still enjoys his work. When he retires, perhaps this year, it will be with reluctance.

Jonathan Weinzaepfel, BA'88, is sales representative for Eli Lilly & Company assigned to the St. Louis territory.

Francis M. Whitacre, AB'27, PhD'35, and Mildred celebrated their 60th wedding anniversary last July. During his decades of varied global activity he served as a consultant in a number of areas including technology, law, and finance. Dr. Whitacre directed his doctoral work. Since his retirement in 1969 he has been a consultant in numerous capacities. He keeps in close touch with the department.

Ralph White, PhD'67, is working on antithymic drugs for Norwich Eaton. He attended a cardiovascular course in Philadelphia. His wife Anne Hosch, PhD'72, is also working for Norwich Eaton on a medical food product named "Vivonex," a complete liquid meal for recovering surgery patients and related convalescents.

James F. Wolfe, PhD'63, professor and head of the department of chemistry at Virginia Polytechnic Institute and State University, has been named vice provost for academic affairs at that institution. He is director of the Harvey Peters Research Center for the Study of Parkinson's Disease and Disorders of the Central Nervous System. In his research on antiepileptic drugs he has published many papers and book chapters dealing with synthetic organic chemistry.

Peter G. Wolynes, BA'71, has been elected Fellow of the American Physical Society for his "many illuminating contributions to the dynamical theory of chemical and physical processes in condensed matter." In addition to being professor of chemistry and physics at the University of Illinois, he has recently been appointed professor in the U of I Center for Advanced Studies.

Julie Yang, MA'52, in her industrial work, travels extensively for her company. Some of the responsibility includes consulting on the identification and analysis for asbestos. Being raised in China, the daughter of a former president of Nankai University (S.H. Yang, PostPhD'45-46), and with relatives in China, she was much touched by last spring's events in China that focused on Tiananmen Square in Beijing. Her bonds with IU are strong.

Jack P. Young, PhD'55, is still productive at Oak Ridge. His picture is in the A pages of Analytical Chemistry, November 15 issue.

Jay A. Young, BS'39, after retiring from teaching chemistry and as Manager of Technical Publications for the Chemical Manufacturers Association, is now devoting full time to his long-time interest in chemical safety as a chemical consultant specializing in the safe manufacture, use, precautionary labeling, proper handling, and appropriate disposal of chemicals used in industry, the household, and the laboratory. His picture appeared prominently in an 1989 (July 31) issue of C&EN.

Daniel Zabrowski, PhD'89, has accepted a position with G.D. Searle & Company, Chicago.

Necrology

Aziz Abbaspour, PhD'82, died April 7, 1987, as was learned from a letter received last spring from the American Health Foundation announcing the establishment of the Aziz Abbaspour Memorial Fellowship at the Naylor Dana Institute.

Miriam (Mimi) Hartzell, AM'46, died June 14, 1989, at Carthage, Ill. She graduated from Monmouth College in 1943, and from 1945 to 1963 she was a librarian in medicinal chemistry at Merck Sharp and Dohme. Declining health forced her to return to Carthage where she spent the last two years as a resident of the nursing facility of the local hospital. Her closest survivor is her brother Franklin, an attorney in Carthage.

John C. Warner, PhD'23, former president of Carnegie Institute of Technology (1950-65). During 1956 he served as president of the American Chemical Society. He was one of the first to receive a PhD in chemistry from IU and worked as a research chemist for Wayne Chemicals Corp. in Fort Wayne for two years before joining the faculty at Carnegie.

In addition, we have received notice of the deaths of the following but with no additional details:

Adrien Albert, former Patten Lecturer, died in Canberra, Australia, on Dec. 29, 1989

Eldon M. Aldred, BA'25, MA'27, died Feb. 25, 1989

Eugene F. Boggs, BA'23, MD'26, died May 20, 1989

John T. Brundage, PhD'28, died Nov. 18, 1988

Gary Michael Caffarini, BA'78, died Apr. 26, 1989

Jack B. Carman, BA'40, died Dec. 16, 1987

Dwight Dixon, BA'78, died Feb. 18, 1989

Joan Whillock Fortune, BA'39, died Oct. 5, 1989

Carl W. Goebel, BA'42, MD'44, died Jan. 24, 1989

Paul F. Huddleston, BA'42, died May 10, 1988

Walter T. Jurgensen, BA'42, MD'44, died Feb. 18, 1989

June Ossenberg Metze, BA'22, MA'23, died Sept. 24, 1989

William C. Pitman, BA'48, died Feb. 15, 1989

Homer H. Turner, BA'21, MA'26, died June 15, 1989

Judson H. West, Jr, BA'35, died Jan. 3, 1987
Larry Hammersley, MS’75
Carl B. Harms, BA’70, MD’74
William C. Harris, MD’74
Nancy J. Harrison, BA’76
Edith Strain Harte, BA’74
Joseph V. Hartman, Jr., BS’38
Miriam E. Hartwell, MA’46
John M. Hayes
David J. Hauber, MS’74
Albert L. Hensley, Jr., BS’66
Gary M. and Susan Helft
William Hodes, BA’70, Ph.D’76
Zachary I. Hodes, BA’72, MD’81
Lenore K. Holladay, Ph.D’72
James L. Hudson, BA’74
John C. Huffman, BS’64, MS’67, Ph.D’74
John N. Huffman
Suzanne H. Huizinga
John R. Hyndman, BA’41
Neil E. Irick, BA’68, MD’71
John M. Johnson, BA’68, MD’70
Maynard A. Johnstone, BA’68, MD’72
Rudolf Kachmann, BA’78, MD’66
Sanford A. Kaplan, BS’50
Nicholas J. and Marjorie Kartinos, BA’45, Ph.D’47
Gerald T. Keener, Jr., BA’65, MD’68
Robert J. and Judith Kelly III, BS’86
Wendy L. Kindig, BA’73, MD’77
John H. Kingsvater, Ph.D’71
Gerald E. King, BS’39
John A. King, BA’38
Akio Kinjo, MS’65, Ph.D’68
Richard E. Kinsel, BS’57
Wallace J. Kleinenschmidt, BS’40
Malcolm A. Kochert, BA’62
Richard A. Komoroski, Ph.D’73
Anne Marie Kore, MS’65
Gary S. and Myrna G. Kozak, BS’60
Frank H. Krati, BA’32, MA’33
Stanley W. Kraus, Jr., MS’74, MBA’75
William E. Kreighbaum, Ph.D’60
Nancy Sue Krieger, BA’72
Paul E. and Barbara J. Krieger, MS’63
Richard S. Kubiak, BA’49
Laura L. Lau, Ph.D’82
Joseph G. Mays, BA’70
William M. LeSuer, Ph.D’48
Edith S. Lessor, Ph.D’53
Herbert M. Levettont, BA’49
Larry and Ricki A. Lewis, Ph.D’70
James M. Light, BA’64, MD’74
Luan-Ho Lin, Ph.D’67
Randal L. Lis, Ph.D’83
Anthony J. Liu, Ph.D’72
Wayne E. Livingston, BS’33
John Lloyd, postdoc’83–85
Ted J. and Ruth P. Logan, BA’53
Andrew Loh, BS’71
Robert L. Mann, BS’45
John A. Marsella, Ph.D’81
Max M. Marsh, BS’47
Joseph L. Massel, BA’74
Richard O. McClure, BA’63, MD’66
Thad J. Messaras, BS’87
Wendell W. Meyer, Ph.D’62
Roger D. and Linda L. Miller, BA’72
Raj Naranjan Misra, Ph.D’80
Steven H. Mohler, BS’80
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Ahmad Rahbar, BA’64
Larry W. Rampsy, BA’61
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Wataru Takahashi, MA’59
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Loon-Sang Tan, BA’81
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