NEW ADDITION TO CHEMISTRY BUILDING DEDICATED

The dedication of the new addition to the Chemistry Building was a gala affair, held on October 21, 1988, in the new Chemistry auditorium. The festivities began at 1:30 p.m. with tours of the new facilities, conducted by members of Alpha Chi Sigma as tour guides. At 3:00 p.m., President Ehrlich presided over the dedication ceremonies. These included presentation of the Building Addition by D.M. King, AIA, Senior Vice President of the architectural firm of Harley Ellington Pierce, Yee Associates, acceptance by Harry L. Gonzo, Vice President of the Board of Trustees, and responses by Dean Lowengrub, Chairman Paul Grieco, and chemistry student Lucinda R. Hittle.

Honorary degrees of Doctor of Science were awarded to Frank Popoff (AB and MBA'59) president and chief executive officer of Dow Chemical Company, to Wendell L. Roelof (PhD'64), Liberty Hyde Bailey Professor of Insect Biochemistry at Cornell University, and to Peter Guy Wolynes (AB'71), Professor of Chemistry and Physics, University of Illinois.

An added highlight in the ceremonies was the presentation of the 1988 Chemical Manufacturers Association National Catalyst Award to Professor Dennis G. Peters, in tribute to the quality of his teaching. The presentation was made by Frank Popoff, as a member of the Board of Directors of the Chemical Manufacturers Association.

The event was attended by nearly 300 friends of the IU Chemistry Department, including many alumni, former postdoctorals, and a group of some 50 college chemistry faculty from schools which have sent IU graduates to students in recent years. Among the visitors was Mrs. Eleanor Gucker, widow of Dean and Department Chairman Frank T. Gucker. Eleanor came from her new home in South Carolina. Probably the person who came the farthest was Dr. Robert Degei from Rechmet--St. Cobain, France. He received his PhD degree in 1955 under the direction of Lynne Merrit.

The department was especially pleased by the presence of such distinguished alumni as Dr. Herbert Gutowsky (BS'40, DSc'83) and Mrs. Gutowsky, Distinguished Alumni William LeSuer (PhD'48 and Arlene, David K. Barnes (PhD'47) and Martha, Burt Appleton (PhD'58), and Jack Gill (PhD'63) and his family. Mr. and Mrs. Curt Muser (she is the daughter of Earl Blough, AB'59, DSc'31) were here, and the department was especially honored by the participation in all events of the dedication by Herman B Wells.

Following a cocktail party at Woodburn House, and a banquet in the Frangipani Room, a Forum on "Trends in Undergraduate Chemical Education" was held in the Chemistry Auditorium at 8:00 p.m. A panel of chemical educators, William F. Coleman (Wellesley College), Michael P. Doyle (Hope College), John C. Kotz (SUNY-Oneonta), William S. Mungall (SUNY-Buffalo), and Steven Russo, was moderated by Dennis G. Peters.

On Saturday morning, October 22, after a continental breakfast served in the atrium of the new chemistry addition, a symposium (continued on page 2)
A LETTER FROM THE CHAIRMAN

The dedication of our new building facilities was a delightful event last fall, and I enjoyed meeting so many returning alumni and distinguished visitors. I want also to thank you for the marvelous departmental support, as shown by the list of donors, reported elsewhere in this newsletter.

I would like to invite all of you to another outstanding event this spring. On Wednesday, April 5th, at 4:00 p.m. in the Chemistry Auditorium, Milos Novotny, Rudy Professor of Chemistry, will present the 1989 Distinguished Faculty Research Lecture. Milos is a truly distinguished faculty member, having won a number of important awards in the last two years: the ACS Analytical Chemistry Award in Chemical Instrumentation, the Eastern Analytical Symposium Award for Outstanding Achievement in the Field of Chromatography, the ISCO Biochemical Instrumentation Award and the ACS Chromatography Award.

Other major national and international awards were received by Distinguished Professor Malcolm Chisholm: the 1989 ACS Award in Inorganic Chemistry, an Alexander Von Humboldt Senior Scientist Award, and the Royal Society of Chemistry Award in Chemistry and Electrochemistry of Transition Metals for 1987. Charles Farmenter was honored by a distinguished professorship and Charles Campbell won a Dreyfus Teacher Scholar Award.

For the third year in a row, the Indiana University Chemistry Department has awarded more Bachelor’s degrees in chemistry than any other university in the United States. Graduate student enrollment, while not the largest in the country, ranks consistently among the top twenty schools in the nation. The recently dedicated new facilities and our outstanding faculty will enable us to continue to attract excellent students into our graduate program.

Phase II of the building project calls for complete remodeling of the interior of the original 1939 building and the 1964 annex. There will be much confusion and movement of faculty offices and laboratories until the project is completed sometime in 1990. Among the faculty members who have moved into the space provided by the new addition are Professors Caulton, Chisholm, Christou, Hiefje, Roush, Shiner, and Williams. Administrative offices and faculty presently occupying the thirties building will move into the annex in May. Demolition has already begun on the upper stories of the thirties building.

I enjoyed meeting many department alumni this fall and I look forward to seeing you again at special events or whenever you can be on the campus. Your enthusiastic support for this department always warms and astonishes all of us.

—Paul A. Grieco

COMPLETING THE RENOVATION

With the completion of the new addition, faculty and staff have been on the move, relocating in new space or vacating old rooms in the original building, which is to be completely renovated. Most of the personnel who were not assigned space in the new addition have now temporarily occupied the 1964 annex in cramped laboratory space. Upon completion of the renovation of the old building about 1991, the '64 annex will be emptied and renovated. When that is completed, hopefully in two more years, there should be adequate space for all in modern facilities.

DEDICATION

(continued from page 1)


The festivities wound up with a luncheon in the Solarium of the Memorial Union, followed by a chemical magic show put on by Steve Russo and Dennis Peters, and tours of the research and teaching facilities. Each attendant received a copy of “The First 150 years of Chemistry at Indiana University,” a history of the department prepared by Harry G. Day for the occasion.

PRESIDENT THOMAS EHRICH (right) with the three recipients of honorary doctorates at the Chemistry Wing Dedication on Oct. 21. From left: Frank Popoff, Wendell Koefoed, and Peter Wolynes.
NEWS OF FACULTY

E. Campagne

Adam Allerhand was the recipient of the CRA-ACS Carbohydrate Division Award for the best paper presented at the Toronto meeting.

Russell Bonham spent August 1988 carrying out research at the Universidade Federal de São Carlos. While in Brazil, Russ visited Professor Eduardo M.A. Peixoto (PhD '68), who has returned to the University of São Paulo after serving as a Vice President in the Ministry of Health. In addition to teaching, Ed has become the first Editor of the new Journal of the Brazilian Chemical Society, and is the author of the first text by a Brazilian on Quantum Chemistry in the Portuguese language. Russ's father, Aubrey Bonham, has been assisting Coach Bob Knight as a volunteer basketball observer, and is now doing the same for the Women's basketball team. Mr. Bonham is a former college and high school coach, now retired. He accompanied the team to the NIT in New York.

Kenneth Busch received an Eli Lilly Young Investigator Award.

E. Campagne was honored by induction into the Indiana Academy in June. The Academy, which consists of 100 active members, plus posthumous and honorary members, nominates and elects citizens of the State of Indiana in recognition of their contributions to cultural, scientific, literary, civic, religious and educational development within the state. It is not to be confused with the Indiana Academy of Science, in which EC has been active.

Charles J. Campbell received a Camille and Henry Dreyfus Teacher-Scholar Award this year, and also in 1988 an Indiana University Outstanding Young Faculty Award. Campbell has been chosen to give the 1989 British Vacuum Council Annual Address.

K.G. Caution lectured at Los Alamos National Labs, the University of New Mexico, Sussex University, and at the Toronto ACS meeting. He attended the Inorganic Chemistry Gordon Conference, and served as a panelist for selecting the 1988 NSF postdoctoral fellows. September saw Ken off to the Organometallic Conference in Turin, Italy, and as external examiner on a PhD thesis in Nice, France. As Program Chairman, Ken (and his secretary) now organize all papers for the inorganic division of the ACS, a job which requires handling some 500 papers for each of the two national meetings each year.

Malcolm H. Chisholm received the Johannes S. Buck--Willis R. Whitney Medal and Award of the Eastern New York Section of the American Chemical Society. This award is given annually to a chemist, broadly defined, in the United States or Canada, whose work needs to be brought to national attention. Professor Chisholm also received the Royal Society of Chemistry Award for the Chemistry and Electrochemistry of the Transition Elements. The award, which consists of a medal and citation, was presented to him by Professor Sir Jack Lewis, FRS, after an award lecture at Fitzwilliam College, Cambridge. The citation was for Fundamental Contributions to the Understanding of the Reactivity of Metal-Metal Bonds and Metal Alkoxide Chemistry. During the year Professor Chisholm continued his editorial work for Polyhedron, and served on the advisory boards for the ACS's Division of Books and the journals Inorganic Chemistry and Organometallics Chemistry, as well as the international journal Inorganica Chimica Acta. He presented invited lectures in Canada, Britain, and Germany as well as at over a dozen institutions in the U.S. In the ten years since his appointment to the IU faculty he has had 20 PhD students in his group and well over 20 postdoctoral fellows, many of whom are now in faculty or industrial research positions. Over 200 publications have appeared from his group, and most have enjoyed collaboration with the research staff of the world-renowned IU Molecular Structure Center. Drs. John Huffman (Director), Kirsten Foltin, and William Streib.

George Christou was awarded the Royal Society of Chemistry Corday-Morgan Medal and Prize.

(continued on page 4)

NEW FACULTY

Two new faculty members joined the department in the fall of 1988.

Dr. David L. Daleke, a new biochemistry member in the Department of Chemistry, was born in San Jose, California, and received his undergraduate and graduate education at Stanford University (PhD '86). For the past two years he has been an American Cancer Society Postdoctoral fellow in the Cancer Research Institute, University of California at San Francisco, working with Professor Demetrios Papahadjopoulos. His research at Indiana University will involve the function and activity of phospholipid transporters.

Dr. Alexandria Cynthia Newton, also in biochemistry, holds a BSc from Simon Fraser University (1980) and received her PhD in Chemistry from Stanford University in 1986. She has held a National Institute of Health Postdoctoral Fellowship at the University of California, Berkeley, for the past two years, working with Professor D.E. Koshland, Jr. Dr. Newton's research interests focus on the structure and organization of membranes, protein-lipid interactions, and transmembrane signal transduction.

ASSISTANT PROFESSOR DAVID DALEKE (PhD Stanford), new faculty member in Biochemistry. Professors Daleke and Newton are husband and wife.

ASSISTANT PROFESSOR ALEXANDRA NEWTON (PhD Stanford), new faculty member in Biochemistry.
NEWS OF FACULTY

(continued from page 3)

Ernest R. Davidson, Distinguished Professor, was elected a Fellow of the Indiana Academy of Science at its annual meeting at St. Mary's College, Notre Dame. Davidson has helped develop the techniques used by chemists to calculate molecular structures, energies, and dynamics. Many of his contributions have become standard parts of computational chemistry, influencing not only the calculation methods themselves, but also the interpretations given to theoretical calculations.

Harry G. Day was delighted to be able to report to the Council of the American Institute of Nutrition, meeting with FASEB at Las Vegas, that a $100,000 endowment for the E.V. McCollum International Lectureship in Nutrition was in the completion stage, and that this lecturership, under the full control of AIN, would soon become highly prestigious in advancing the Science of Nutrition. A resolution was passed by the Council in appreciation of Day's efforts for the McCollum Commemorative Committee. At the annual meeting in Boston in November of the American Public Health Association, Harry was pleased to receive the Outstanding Alumnus in Public Health Award of the Johns Hopkins School of Hygiene and Public Health Society of Alumni. HGD spent eight years at the School of Hygiene in the '30s.

Ruth S. Gurd, who was officially in the Medical Sciences Program of the Medical School as Professor of Biochemistry, but maintained her office and laboratories in the Chemistry Department as Prelim Adviser for Chemistry majors, has retired. She and her husband Professor Frank Gurd, also retired, plan to make their home in New Mexico.

F. Haurowitz. There are still some 100 volumes of FH's professional library which remain undistributed. If any alumni would like a memento once used and treasured by this great scientist, please contact Harry Day.

Gary M. Hiestje was elected a fellow of the AAAS this year. Gary and Rob Loder (PhD'88, now an Assistant Professor of the School of Pharmacy, University of Kentucky) shared the R and D 100 Award, sponsored by Research and Development Magazine, for their development of a sample holder and computer algorithm for detecting contamination in intact tablets or capsules. The awards were presented at a banquet held at the Museum of Science and Industry in Chicago, and are the result of an international competition to select the most significant new technical products of the past year. Gary gave the Hobart Willard Lecture at the University of Michigan, a lecture series at New Mexico State University, and plenary lectures at the Fourth Biennial National Atomic Spectroscopy Symposium in York, England, and at the Alison MacDonald Retirement Symposium sponsored by Elsevier in Basel, Switzerland, as well as five colloquia at various universities. His professional duties include service on the Executive Committee of the Division of Analytical Chemistry, ACS, and on the Chemistry Review Committee of NSF. He served on the Award Jury for the Heinrich Emanuel Merck Prize, initiated this year by E. Merck, and attended the presentation ceremonies in Darmstadt, Germany. In his spare time, Gary consults for the Los Alamos and Lawrence Livermore National Laboratories and several corporations.

P.W. Langhoff reported his research group's activities on 15 separate occasions in 1988, including lectures given at the University of Hawaii's Hydrogen Photo-Production Workshop on the Island of Hawaii (January); the Aeronautics Systems Division of Wright-Patterson Air Force Base, Dayton, Ohio (February); the John von Neumann National Supercomputer Center, Princeton, NJ (March); the A.A. Noves Laboratory of Chemical Physics of the California Institute of Technology (March); the Chemistry Department of Princeton University (March); the Applied Technology Division of TRW, Redondo Beach, CA (March); the Rocketdyne Division of Rockwell International, Canoga Park, CA (March); the School of Engineering of the University of Miami (April); the Chemical Laser Laboratory of Kittred Air Force Base, Albuquerque, NM (June); the California Polytechnical University, San Luis Obispo (July); the Astronautics Laboratory of Edwards Air Force Base, CA (July); the Johnson Space Center, Houston, TX (August); Perry Energy Systems of West Palm Beach, FL (September); the University of Minnesota Supercomputer Institute, Minneapolis, MN (October); and the Philip Morris Research Laboratory, Richmond, VA (November). On a more personal note, Professor Langhoff is also pleased to report the marriage of his eldest daughter, Lisa, to Russell van Vorhees of Groes Point, Michigan. The wedding ceremony was held at the cathedral in Santa Monica, California, in June of 1988. In view of the marriage of his second eldest daughter, Kristen, the previous November, Professor Langhoff was particularly glad to have received a generous salary increment in 1988, which was largely expended on tips to waiters at the wedding reception in Santa Monica.

Philip D. Magnus resigned from the department in December 1988 to accept an appointment to a Welch Professorship at the University of Texas.

Max Marsh, Visiting Scientist, was elected president of the College of Arts and Sciences—Graduate School Alumni Association for 1989. He continues his service to the Indiana Academy of Science as a member of the Foundation Trustees and a member of the Corporate Relations Committee.

L.L. Merritt, Jr., taught Elementary Chemistry C101 at IU Northwest this year, the first time he has taught beginning chemistry since the ASTP days of 1943-45! He also taught Analytical Chemistry C310 there, and is Acting Chairman of their Data Processing and Information Systems Department. Merritt is now the senior author of the famous Willard, Merritt, Dean and Settle text, Instrumental Methods of Analysis. The seventh edition just published is being used by him in teaching C410 at IUN this spring. Lynne's outstanding contributions were recognized by an honorary DSc from Indiana University at the May 1988 commencement at IUN.

Milo Novotny gave 33 lectures off campus last year, including an ACS Lecture Tour in Texas, five research lectures in South Africa, a lecture in honor of Professor Milton Lee (PhD'75)—who was recipient of an ACS Award at the North American Chemical Congress in Toronto—a plenary lecture at the Hewlett-Packard Analytical Symposium in London, a symposium talk on "Chromatography and Electrophoresis in Biomedicine" honoring Dr. K. Macek, at Riva del Garda, Italy, and the EAS Chromatography Award Address at the Eastern Analytical Symposium in New York in October. Milo also gave three short courses on "Capillary Gas Chromatography" at ACS meetings in New Orleans, New York, and Toronto. He also organized an international conference on "Microcolumn Separation Methods" in Bloomington in October.

Victor Viola was chosen as one of seven 1988 "Kansans of Distinction" by the Topeka Capital-Journal. He was cited as one of the world's leading nuclear research scientists. Viola is currently serving on the Program Advisory Committees at ATLAS accelerator at Argonne National Laboratories and BEVAC accelerator at Lawrence Berkeley Laboratory. He is on the Nuclear Chemistry Review Committee of the Lawrence Livermore National Laboratory, the Executive Committee of the Division of Nuclear Physics, American Physical Society, the Committee on Nuclear and Radiochemistry of the National Research Council, and is Divisional Associate Editor of Physical Review Letters. He also gave invited lectures at a symposium on the 50th anniversary of the discovery of fission at the ACS meeting in Toronto, at the Gordon Conference on Nuclear Chemistry in New London, New Hampshire, and at the 20th Masurian Summer School on Nuclear Physics in Mikolajki, Poland.
NEWS OF FACULTY

NEWS OF FORMER FACULTY

Ralph L. Shriner, chairman from 1941 to 1946, lives in retirement in Texas. He is looking forward to his 90th birthday, which will occur 9 October 1989. He expressed regrets that he could not attend the dedication ceremonies. Arthritis interferes with travel. His address is: 2709 Hanover Street, Dallas, TX 75225.

John F. Suttle, in the department from 1944 to 1946, has retired. He and Betty continue to live in Menlo Park, California. In commenting to L.L. Merritt about the AllUC Newsletter, he stated, “I always enjoy reading about IU.”

LeRoy Klemm, faculty 1947-52, has “semi-retired” at the University of Oregon, Eugene. He teaches one class in the winter term, and travels with his wife Christine when not doing research at the University.

John M. Knego, long-time Director of the Chemistry Department Library and Information Service, and Kathryn have completed a new home in Lutz, Florida, where John is teaching and consulting widely on the use of computers in information and data processing at Florida Southern University. Son Robert has completed medical school and is in his residency in neurosurgery. Daughter Helena continues her studies in New York.

Jay Koch is as busy as ever. Marian was in Tokyo in April 1988 to visit her 88-year-old mother. Son Sims has his PhD in Microbiology from the University of Minnesota, and is continuing with postdoctoral research at Harvard. Ariel works in New York City. Julia is completing her last year of college.

VISITING FACULTY

Dr. Morris Zimmerman, who earned his degree in biochemistry with Haurowitz in 1955, returned to Indiana in the fall as a visiting professor to teach biochemistry after a long and distinguished career at the research laboratories of Merck, Sharpe and Dohme at Rahway, New Jersey.

CHANGING OF THE GUARD

As was indicated in last year’s letter, V.J. Shiner, Jr., has returned to research and teaching after two long and productive periods as Chairman of the Chemistry Department, surrounding a five-year service as Dean of the College of Arts and Sciences. Jack first took over as Chairman in 1962, shortly before we moved into the new (1964) addition. He leaves administrative responsibilities with the great accomplishment of seeing the second addition completed, and the long-promised remodeling of the old (1931) building underway. Thanks, Jack.

Our new Chairman is Paul A. Grieco, who joined the department in 1980, and is Earl Blough Professor of Organic Chemistry. Paul now directs the numerous duties of chairman to his full load of professional duties. For example, this year he gave the Friedman Lecture at Rutgers University, the Centennial Lecture at Abbott Laboratories, some eleven seminars at various corporations and universities, and served as Chair of Medicinal Chemistry Study Section A of the NIH, and as a member of the Ad Hoc Committee of Inquiry at the University of Wisconsin. This year he received the NIH Merit Award from the National Cancer Institute for his outstanding research contributions.

A Chair with these responsibilities obviously needs some help, and an Associate Chairman has been appointed this year. Dennis Peters, who is the Briscoe Professor, has accepted that responsibility. Dennis joined the faculty in 1962 and has won many distinctions for his research and teaching over the years, the most recent being the Chemical Manufacturers Association National Catalyst Award (see Dedication). His principal responsibilities as Associate Chairman will center around chemical education at IU, including curriculum, teaching assignments, and teaching laboratory facilities.

In addition, the Policy Committee of the Department, which advises the Chair, has been restructured. It formerly consisted of three members serving three-year overlapping terms. Now it will consist of five members representing each of the five disciplines—analytical, biochemistry, inorganic, organic, and physical chemistry, serving two-year staggered terms, with the Chair and Associate Chair ex officio. Current members are Chisholm, Hieftje, Parmenter, and Roush, and a biochemistry representative to be elected this spring.

VISITORS TO THE DEPARTMENT

A greater number of alumni than usual have dropped by to see us this past year. Among those who signed our guest book were: Burton Appleton, PhD’58; Ram Bedi, PhD’60; Robert R. Buck, BS’42; J. Paul Burnett, PhD’60; David Clark, PhD’86; Robert Degelis, PhD’55; Charles Froehman, BS’47, AM’48, and Evelyn Froehman, BS’43; Jack Gill, PhD’63; Joseph Hartman, BS’38; Michael Horoda, Jr., BA’50, MA’64; Keith Howell, Post-PhD’62-64, and Shirley; George Kriz, PhD’66; Ted Logan, BA’53; Rodney Moss, PhD’71; Mary L. Patterson, PhD’84; Thomas Ragland, BA’58; Melody Smith Rooney, BS’83; David A. Rothrock, Jr., BA’52, MA’32; James Schooley, AB’53; John Shively, BA’44, MD’47; Richard Slagle, BA’27; Nolan B. Sommer, Ph.D’44; Meredith Sparks, MA’28; and James Thrasher, BA’74.

CAMPAIGNE AND CARMACK LECTURESHIPS ANNOUNCED

During the dedication ceremonies, two new lectureships, honoring faculty members, were announced. Many former students of E. Campagne have funded the Campagne Lectureship in Organic Chemistry, and the first lecture will be held in the fall of 1989. During the dedication banquet, Dr. Jack Gill (PhD’63) announced that some of Marvin Carmack’s students had provided a lectureship in Organic Chemistry in Carmack’s name, and discussions are underway on the beginning of the lectureship. These lectureships now bring to five the number, which include the F.T. Gucker Lectureship in Physical Chemistry, the H.G. Day Lectureship in Biochemistry, inaugurated last year, and the F.C. Mathers Lectureship in Chemistry.
STAFF NEWS

Lloyd Hudson
While there have been many changes in staff personnel during the year since the last issue of this bulletin, there are no retirements to report. However, Miss Elizabeth Greene was awarded a 45-year service plaque at the staff recognition ceremony on May 19 at the Showalter House. The award, presented by Dr. Ward Schaap, was given in recognition for long, outstanding service by Miss Greene, one of the most senior members of the IU staff. As a matter of fact, by the time the award ceremony was held, she was but about four weeks short of her 46th anniversary.

In a ceremony on April 29th, Dr. Shiner, then Chairman of the Department of Chemistry, presented the staff award for outstanding service to Helen (Holly) Willett. Holly has served as an academic adviser and director of the Chemistry Placement Program on a full-time basis since 1979, and she has been a counselor in the Department since October 1973. There are over 500 students majoring in chemistry, which ranks IU #1 in the nation for the number of BS degrees awarded in this discipline. As Director of Placement, Holly coordinates meetings and interviews between students and postdocs for about 50 industrial firms.

Robert (Bob) Ensmann was honored in September on the 25th anniversary of his employment in Chemistry. Bob is head of Electronic Instrument Services in the Department.

Not only has Mr. Ensmann’s shop been upset and moved, but also Don Fowler’s glass shop, Pat Burner and the Chemistry Scientific Stores, the Requisitioning Office, John Dorsett’s Mechanical Instrument Services, Robin Nordstrom’s Duplicating, prep labs, and various faculty offices (with their secretaries, grad students, and postdocs) have been relocated, often to temporary quarters, during the year. The Animal Quarters have been dispersed to other locations on campus. Many additional moves will be required before the completion of the remodeling is accomplished. The Business Office, the Office of the Chairman, the Graduate, Undergraduate, Placement, and Freshman Offices will be moved, later to be housed in entirely new quarters.

Kris Kwiatkowski, an Associate Scientist in the department, has been elected to serve on the Executive Committee of the Experimental Users’ group at the National Superconducting Cyclotron Laboratory at Michigan State University.

UNDERGRADUATE NEWS

W.T. Jenkins, H. W. Willett
During the 1987-88 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 528 in 1986-1987 to 521 in ‘87-88. The number of graduating seniors jumped from 128 in 1986-87 to 148 in ’87-88 (100 with BA degrees, 32 with BS Biochemistry degrees, and 16 with BS Chemistry degrees). C & E News reported that Indiana University produced more new bachelor chemistry graduates (128) during the 1986-87 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-three students participated in our Chemistry Honors Program during 1987-88, and 28 students engaged in C409 Undergraduate Research. Fifty graduating seniors went on to medical school, ten to dental school, five to graduate school in chemistry, six to graduate school in other science-related fields, two to MBA programs, and fifty-one to industry.

The Chemistry Cooperative Education and Internship Programs are under the direction of Ms. Kathy Reidhaar 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 (continued on page 7)

From left: Tony Huff, Greg Nadol, Troy Wood, Nick Marshall (H. G. Day Summer Scholars); Lucinda Hittle, John Bart, Dung Nguyen (Ira E. Lee Summer Scholars); Steven Vogtman (H. G. Day Summer Scholar); and Chris Stipp (Honors Division Summer Scholar).
UNDERGRADUATE NEWS

(continued from page 6)

were honored at the Chemistry Honors Banquet:

The Outstanding Senior Awards went to Ronald F. Baldwin and Warren J. Chang. Michael E. Hodsdon received the William B. Bell Award and John C. Bart was awarded the 1987-88 Courson-Greeves Prize. Susan J. Gudeman received the Joseph B. Schwartzkopf Award, James R. Stout, the Frederic C. Schmidt Award, and Cheryl A. Christmas and Julie Y. Chao received awards from the Southern Indiana Local ACS section. Cooperative Education Certificates were awarded to Lynn A. Burks, Kelli Eshelman, Jennie S. Kho, and Melody D. Rankin and the Verling M. and Elizabeth Yotaw Award was presented to Mary C. Cosby and Lee Eric Bridges. Gary J. Clancey received the Bill Mays Award. Merck Indexes were presented to Michael J. Dart, Lucinda R. Hittle, and Christopher Stipp.

The R. J. Grim Scholarship recipients for 1987-88 were: Julie Chao, Benjamin Chiu, Gail Hierholzer, Michael Hodsdon, Alan Ladd, Mark Pierce, Andrew Raiz, Judith Stenfengale, Christopher Stipp, James Stout, and Michael Wilson.

Ira E. Lee Summer Research Scholarships for full-time research for 1988 were awarded to John C. Bart, Lucinda R. Hittle, and Dung Nguyen. Harry G. Day Summer Research Scholarships for full-time research for summer 1988 were awarded to Michael E. Hodsdon, Michael J. Dart, W. R. Anthony Huff, Nicholas F. Marshall, Gregory S. Nadol, Steven S. Vogtman and Troy D. Wood.

Harry G. Day Academic-Year Scholarships for 1987-88 were awarded to John C. Bart, Cheryl A. Christmas, Michael J. Dart, Stuart F. Easley, and Lucinda R. Hittle. The Harry G. Day Returning Student Scholarship for 1987-88 was awarded to Robert W. Chapman.

The Harry G. Day Summer Research and Academic Year Scholarships were made possible by a generous gift from Chester Davis (B.S'44). Recipients of these awards participate in undergraduate research projects which not only develop their chemistry talents but also provide invaluable experience for those entering industry or graduate school.

Six students were recognized as superior in various freshman chemistry courses, and received book certificates. Thirty-one chemistry majors were elected to membership in Phi Beta Kappa. Twenty-six seniors, 30 juniors, and 27 sophomore chemistry majors were on the Departmental Honor Rolls.


From left: Christopher L. Stipp (Honors Division, Summer Scholarship, Merck Index Award), Lucinda Hittle (Ira E. Lee Summer Scholarship, Merck Index Award), and John C. Bart (Courson-Greeves Award, Ira E. Lee Summer Scholarship).
GRADUATE NEWS

The graduate program in the Chemistry Department is directed by two faculty committees. The admissions committee, chaired by Professor Adam Allerhand, included Professors Campbell, Caul- ton, Ewing, Richardson, and Stryker for the 1987–88 academic year. The standards committee is responsible for the graduate program, and was chaired by the graduate adviser, Professor Jack K. Crandall. The other members of the standards committee were Professors Chisholm, Reilly, Richardson, Wightman, and Williams. Members of the graduate admissions committee read over 300 applications, and, thanks to their efforts, 51 students entered the department in the fall of 1988. Two of these students hold NSF Fellowships.

Curtis Monnig (left), Dissertation Year Fellowship; Steven Maple, AMOCO Fellowship; Arturo Perez Medrano, Berlex Fellowship; Mary K. Carroll, NSF Fellowship; and David Wipf, Monsanto Fellowship.

FELLOWSHIP HOLDERS

Six industrial fellowships were awarded to chemistry graduate students during the 1987–88 academic year.

The AMOCO Fellowship was awarded to Steven R. Maple, who received his undergraduate degree from West Virginia University. He is involved in a research project in the lab of Professor Adam Allerhand on the development and applications of ultrahigh-resolution nuclear magnetic resonance spectroscopy.

Arturo Perez Medrano was the recipient of the Berlex Fellowship. Arturo is a student of Professor Paul A. Grieco and came to Indiana University with a BS degree from Universidad Nacional Autonoma de Mexico. The major focus of his research is the total synthesis of jasplamide, a novel 19 membered ring cyclosporin peptide possessing antimicrobial, antitumor, and insecticidal activity.

The Lever Fellowship was awarded to Paul A. David. His research on physicochemical studies and biochemical applications of capillary supercritical fluid chromatography is being carried out under the direction of Professor Milos Novotny. Paul received a BS degree from Monmouth College.

Kirk W. Butz, a graduate of the University of California–Riverside, is the latest of a distinguished group of students who have held Lubrizol Fellowships in the department since 1956. Kirk is a physical chemist doing research with Professor Charles Parmenter on vibrational energy flow in molecular beams.

David O. Wipf, who is a student of Professor Mark Wightman, received the Monsanto Fellowship for the academic year 1987–88. David received a BS degree from the University of South Dakota. His research involves ultramicroelectrodes.

The Procter and Gamble Fellowship was awarded to David T. Parker, who completed his PhD thesis in December 1988. His thesis, "Iminium Ion Based Diels–Alder Methodology: The Total Synthesis of (+)-Klainaneone," was done under the direction of Professor Paul A. Grieco. David received his undergraduate degree from the University of Delaware. He has accepted a postdoctoral position at Columbia University, where he will work under Professor Gilbert Stork.

A National Science Foundation Fellowship was held by Mary K. Carroll, who received her undergraduate degree from Union College. Her research involves novel optical instrumentation for increased selectivity in molecular spectroscopy and is being conducted in the research lab of Professor Gary Hieftje.

Other fellowship winners were Curtis A. Monnig, Division of Analytical Chemistry of American Chemistry Society Summer Fellowship; and Leslie J. May, Lilly Fellowship. Robert A. Ladder received a 1988 Tomas Hirschfield Award in Near IR Analysis. Ronaldo S. Barbier held a foreign fellowship from Conselho Nacional de Desenvolvimento Cientifico e Tecnologico-CNPq.

Graduate School Fellowships were awarded to the following: Mary K. Carroll, Paul S. Coan, Kelly A. Cobb, Paul J. Galley, Kyle R. Gee, Susan M. Giardino, Kenneth J. Henry, Jodi L. Johnson, Thomas W. Kreek, Cynthia L. Long, David E. Niehaus, Leif P. Olson, Helen H. Schurz, and James B. Wakefield.

Joseph M. Campbell received a CIC Minority Fellowship, and Stephanie T. Chacon and Kirk T. Kawagoe received Graduate Teaching Fellowships. Andrew M. Fray, Leslie J. May, and Leslie A. Robinson hold Patricia Roberts Harris Fellowships from the U.S. Department of Education.

Other Graduate School Fellowships were awarded to Eric E. Allen, David T. Parker, and Wayne S. Mahoney, Summer Research Fellowships; Dale L. Rieger, a Second Semester Research Fellowship; Curtis A. Monnig and Steven R. Maple, Dissertation Year Fellowships.

RECENT PHDS

PhD recipients with area, research professor, and first position accepted for the 1986–88 academic year include the following:

Deon S. Anex (physical, G. E. Ewing), University of California, Berkeley, postdoc;
Ali Bahsas (organic, P. A. Grieco), Universidad de Los Andes, Medira, Venezuela, professor;
John S. Bashkin (inorganic, G. Christou), University of Rochester, N.Y., postdoc;
David J. Burns (biochemistry, A. S. Lewin), Duke University, Durham, N.C., postdoc;
Gary A. Cain (organic, P. D. Magnus), E. I. du Pont de Nemours, Inc., Wilmington, Del., research chemist;
Gerald C. DiDonato (analytical, K. L. Busch), E. R. Squibb & Son, Princeton, N.J., head, Mass Spectrometry Research Unit;
Bryan W. Eichhorn (inorganic, M. H. Chisholm), Exxon, Annandale, N.J., postdoc;
Mark W. Ensinger (organic, V. J. Shiner), AMOCO Research Center, Naperville, Ill., research chemist;
(continued on page 9)
BEFORE 1930
Frances C. Rothert, AB'17, retired for the first time in 1962 when she was Director of Maternal and Child Health with the Arkansas State Board of Health. This was followed by other humanitarian involvements especially in connection with the Catholic Relief Services in Latin America. Her accumulated honors include a medal awarded by Pope John Paul II. She graduated in the same class with H. T. Briscoe in 1917. The two were the chemistry seniors that year to be elected to Phi Beta Kappa. Her hearing and vision are becoming seriously impaired, but she remembers well and cherishes her years at IU. She lives in a retirement community, Benedictine Manor, at Hot Springs, AR 71914.

J. C. Warner, BA'19, AM'20, PhD'23, has ScD'54, continues to keep in touch with the Department of Chemistry. Effective 1 July 1988 his address became Apt. B-404 Friendship Village of the South Hills, 1290 Boyce Road, Upper St. Clair, PA 15241. He regrets that he could not attend the Dedication of the Chemistry Addition last October. This great alumnus was given a gala luncheon at the Duquesne Club in Pittsburgh to celebrate his 90th birthday (born 28 May 1897). He still thinks vigorously and constructively, like a chemist half his age.

Meredith P. Sparks, BA'27, MA'28, continues to attend meetings of the American Bar Association and the ACS. She has few women colleagues in her field of patent law in the biotech field. Of course this requires training in science as well as law and practitioners must pass civil service examinations in patent law. She attended the Alumni Weekend last June.

Francis W. Whitacre, BA'27, AM'28, PhD'35, was one of the oldest alumni at the Dedication Ceremony last October. As a student he "spent six years in Wiley Hall and two or three summers in the 'New Chemistry Building.'" He now lives at the Franklin Home at Franklin, Indiana.

1930-39
Alvin M. Borders, AB'31, PhD'37; Joseph Dec, AB'36; and Joseph E. Weber, PhD'37, each having been members of the American Chemical Society 50 years, were given attractive 50-year lapel pins and certification as 50-year members. Alvin and wife Jane have moved from St. Paul, MN, to Albuquerque, NM, but they returned to campus for the 1988 alumni weekend. All three 50-year members are loyal chemistry alumni.

Loran S. O'Bannon, AB'32, continues to be active in the American Ceramic Society of which he is past president. The next convention of the Society will be in Indianapolis. The highlight of the meeting will be their second symposium on superconductors.

Everett J. Ritchie, MA'34, worked under the direction of O. W. Brown at IU and then was a research chemist with the Eagle-Picher Lead Company in Missouri nearly all the time until he retired in 1970. Being an O. W. Brown student, storage battery problems have dominated in his professional life. His lifelong interest in rocks and minerals has connected him closely with the Tri-State Mineral Museum in Joplin. He has authored a museum guidebook and is chairman of the Museum Board and Curator.

1940-49
William G. Roessler, BS'42, PhD'Bact.'50, after many years as Chief of a bacteriology research division at Fort Detrick in Maryland has retired. During three months in fall 1988 he was suddenly hospitalized three different times for eye surgery, prostate surgery, and fracture of two vertebrae that resulted from a fall from a ladder. Fortunately he is able to walk and healing is progressing very well.

Chester Davis, BS'44, in 1988 was designated Distinguished Alumnus of the College of Arts and Sciences-Graduate School of Indiana University. He comes to chemistry and the Department of Physics because he has special interest in teaching and research.

Ralph W. Bruner, AB'45, was among many alumni here for the dedication and follow-up symposium in October. Later he sent us the copy of an attractive, well-written textbook on The Metallurgy of Die Casting, which is one of the books he has authored for the Society of Die Casting Engineers. This book is used in a short course for lay people in the industry who need to have some understanding of metallurgy. Ralph is a trustee of the Foundry Educational Foundation.

William F. Creek, BS'45, has retired from Pfizer Inc. after 31 years with the company. He is living in San Antonio, Texas, with his wife Katherine Martin Creek, a '47 graduate of the School of Nursing.

Fred Neumann, PhD'45, after being a widower about two years is marrying a widow and retired school teacher (music), Betty Schotten. They will continue to live in Midland, where he was a researcher at Dow Chemical for many years.

Elsa Proehl Paulsen, MA'45, is justifiably pleased that a lengthy unsolicited news report on her research is being published in the January 1989 issue of Pediatric News. It reports work she and her associates at the University of Virginia presented at the annual meeting of the American Heart Association Council for High Blood Pressure Research. The breakthrough research has shown that appropriate early treatment of high renin activity in insulin-dependent diabetes may prevent or ameliorate diabetic nephropathy.

John F. Christman, MA'46, has been retired two years. He is coauthoring a book on the role of serendipity in current science. The most important news is that his "ten year bladder check-up was a roaring success... and the lung check-ups are just as good." He has not smoked since July 1987. Very good. He is still speaking extensively on ACS circuits.

Curtis Snow, MA'46, and Marcia, MA'48, live in retirement at Pasadena, MD. In October they returned to Europe and toured parts of Switzerland and France.

Helen M. Steward, AM'46, and her husband, in keeping with the Stewart penchant to carry their expertise in agriculture to other lands, were part of a team in Ivory Coast, West Africa, last year. This was the Volunteers in Overseas Cooperative Assistance. They participated in promoting self-sufficiency in corn production. They believe this has great potential for more effective foreign aid.

David K. Barnes, PhD'47, continues as chairman of the Board of Olivet College and

SOCIAL HOURS

Again in 1988, the department and AIUC participated in the Alumni Hours at the spring and fall ACS meetings. On July 6 in Toronto, Canada, a few of the alumni signed our guest book. They included: Doug Armstrong, BS'63, Olivet College; Bruce Barner, PhD'83, from Laramie, WY; Peter Brown, Post-PhD'82-84, now in Crowell, CT; Jim Copp, BA'76, PhD'81, from Rockville, Ind.; Jonathan Grote, PhD'84, from Illinois; Charles Hammond, current graduate student; Tim Hanusa, PhD'83, Assistant Professor at Vanderbilt U.; Jim Hickey, PhD'77, from U.S. Fish & Wildlife Service in Ann Arbor, MI; Ted Kleindienst, PhD'77, from Durham, NC; Guenter, Post-PhD'57-59, from Cherry Hill, NJ; Robin Kump, PhD'81, from Aiken, SC; Duane Lehman, PhD'59, from Midland, MI; Peter Mahaffy, PhD'79, from Edmonton, Canada; Dana Mayo, PhD'59, from Bowdoin College; Karen Peterson, from Vernon Hills, IL; Bob Sawicki, PhD'78, from Stormville, NY; Stewart Schneller, PhD'68, from Tampa, FL; Allen R. Siedle, PhD'73, from 3M. Two of the current chemistry faculty were also present, Prof. Jack Shiner and Prof. and Mrs. Marvin Carmack.
At the Chemistry Honors Banquet this past spring the following students were recognized: the Du Pont Associate Instructor Awards for excellence in teaching went to Otto T. Berg, David M. Coppert, and Joe R. Rambo; the Robert Chernin Award for outstanding C500 research went to Mary K. Carroll, an analytical chemist. Jose A. Rodriguez won the Felix Haurowitz Award for excellence in research; Ignacio Faus, received the Henry R. Mahler Memorial Award; Wayne S. Mahoney and Charles E. Hammond were presented the William Nebergall Memorial Award; and Charles W. Wilkerson was the recipient of the Reilley-Upjohn Award.

**Henry Mahler Memorial Award:** Ignacio Faus.  **Felix Haurowitz Award:** Jose A. Rodriguez.

**William Nebergall Memorial Awards:** Wayne S. Mahoney (left), and Charles E. Hammond.  **Reilley-Upjohn Award:** Charles W. Wilkerson.  **Robert Chernin Award:** Mary K. Carroll.

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**MS RECIPIENTS**

Caroline M. Boyle (E. R. Davidson); David S. Brown (R. M. Wightman); Carey M. Cheri (J. R. Preer); Michael S. Covarrubias (A. S. Lewlin); Penni F. Dalton (C. T. Campbell); Andrew I. Engel (J. P. Reilly); Stephen D. Gabriel (J. M. Stryker); Michael A. Marks (G. M. Hieftje); Karen B. Peterson (J. J. Gajewski); and Philip W. Schultz (J. A. Jaehning).

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**DuPont Associate Instructor Awards:** Joe R. Rambo (left), David M. Coppert, and Otto T. Berg.
the Board of the Medical Center of Delaware. Also, he remains on the Corporate DuPont Board. There are many other activities that capitalize on his abilities.

William Foyle, Ph.D.'48, has special reasons for a good sense of satisfaction. The third edition of his textbook on medicinal chemistry was published in 1988. His work on radiation protection continues. His laboratory's compounds are being tested in five laboratories.

Charles Frohman, M.S.'48, and his wife Evelyn Sisson Frohman, B.S.'43, circled the globe in five weeks last summer. This was preceded by a visit to Bloomington, Columbus, and various other places in America.

William Lesuer, Ph.D.'48, and his wife, Arlene, came for the dedication of the new addition. He keeps active with work as a college trustee and with the National Defense Education Act. He has been chairman of the National Science Foundation.

Lyman R. Caswell, B.S.'49, M.A.'51, has published (Southwest Retort, May 1988) a persuasive plea for the United States Postal Service to issue more commemorative stamps honoring American scientists. He has pointed out that the Service prefers to recognize persons and events at the time of a fiftieth anniversary or milestone thereof. The article points out that six outstanding American scientists have appropriate anniversaries during the 1991-2001 decade: A. H. Compton, J. B. Conant, H. G. Urey, Benjamin Rush, Joseph Henry, and E. O. Lawrence. One of the six, Urey, has an honorary ScD degree from IU since he has Indiana connections. Caswell is professor of chemistry at Texas Women's University.

1950-59

Raymond Boucher, Ph.D.'50, had a quadruple bypass after a mild heart attack in October. He is now recovering at his home in Naples, Florida, where he hopes to take up his golf game again. He served as president of the Southern Seniors golf group this year (1988).

Rodney (Rod) Moss, Ph.D.'51, after devoting his entire professional life of 36 years with the Dow Chemical Company, has retired with his wife, Phyllis, to Prescott, Arizona. His productive and varied career at Dow started as a spectroscopist at Midland. Later he spent a few productive years at the company's laboratory in Indiana. Then he was returned to the Agricultural Products Department at Midland as the laboratory director of chemistry. Before retiring he was Director of Patents and Licensing for Global Agricultural Products. This took him throughout the Far East and Europe looking for projects with potential value for his company. This long experience centered in Hong Kong. Like many other chemistry alumni he started under the tutelage of E. Campagne.

Richard T. Cady, Ph.D.'52, has written about returning to Indiana for the 50th anniversary celebration of the class of 1939 at Portland High School. He began teaching there in 1938, but after receiving his doctoral degree here he joined DuPont, from which he has retired.

Wayne R. Merriman, B.S.'52, has retired as vice-president of international operations for Great Lakes Chemical Corp., West Lafayette, Ind. He was with the firm for 21 years.

Herbert H. Reller, Ph.D.'52, has been retired from Procter & Gamble for a few years. His scientific interests are primarily focused on the consultation he does for a venture capital firm on the west coast. Besides this he and Betty have given much time to traveling in their new motor home.

Bryce Douglas, Post-Ph.D.'53-55, in the Carmack group, and Joyce live in retirement near Valley Forge, PA, but recently BD has remarked that he is looking forward to retirement from retirement. The principal institutions in which he has special obligations are the Franklin Institute, the U. of Pennsylvania, and Beaver College.

Charles Guare, Ph.D.'53, has retired from General Electric at Schenectady, but he is continuing on an "as needed" basis in chemistry at nearby Union College. He remains active in skiing and tennis.

Hilbert Morales, B.S.'54, for a considerable time was the laboratory director in Biological Sciences at Stanford. Now he is director of planning, Santa Clara Valley Medical Center, San Jose, CA. This is a teaching hospital affiliated with the Stanford University Medical School.

Robert Degelih, Ph.D.'55, added to the large number of his visits from France to campus, primarily to attend the chemistry dedication, and as he wrote, "to feel like a student again." He now properly feels that over the years he has become "in a way part of the history of the chemistry department." This was demonstrated by his contribution of his "old (1954-55) chemistry directory" to Elizabeth Greene for the chemistry alumni/archives office.

Edith Schroeder Lessor, Ph.D.'55, 20 years ago became the chairman of the Department of Chemistry at Mount Saint Mary College in Newburgh, NY, not far from her home at Poughkeepsie, NY. Besides this in 1988 she became the College's head of the Division of Natural Sciences and Mathematics. While managing her academic responsibilities she and husband Art have a son and daughter. The son became an organic chemist and the daughter an environmental engineer. Edith and Art became acquainted in graduate school here and were married soon after receiving their degrees in summer 1955. They were divorced in summer 1988.

Gerald Reckenwald, Ph.D.'55, in his retirement continues to be involved with others in developing an industrial museum at Easton, PA. Another project is in assistance with other volunteers in helping senior citizens in the preparation of their income tax returns.

Chooong Wha Chung, Post-Ph.D.'56-60, has been retired two years owing to cataracts in both eyes. His wife, who is an ophthalmologist, did the surgery. The operation was so successful he has taken up golf. At IU Chooong was associated with H. R. Mahler in his research.

Nicholas N. Seldon, A.B.'56, has retired from high school chemistry teaching and is noted for his attention to professionalism and effective focus on chemistry in spite of markedly impaired vision. In 1988 he had a severe heart attack but he has responded "pretty well."

Dana Mayo, Ph.D.'57, has become increasingly active and prominent at Bowdoin College in the development and adoption of micromodule procedures in teaching organic chemistry. Recently he has received the James Fock Norris Award in teaching.

P. Roy Chowdhury, Post-Ph.D.'58-61, has retired from the National Chemical Laboratory at Poona, India, and he and his wife, Sumitra, have returned to their homeland near Calcutta. Many of their relatives are nearby. He is continuing in research at a laboratory in Calcutta. Their son Ajay is an engineering student at the University of Southern California.

Sidney Fleischer, Ph.D.'58, and Becca (Patras), Ph.D.'58, have been at Vanderbilt U. many years but they maintain strong ties with Indiana. They were especially devoted to Professor Haurowitz who died in 1987. At their request a few books from the Haurowitz library were given to them as mementos. Other former students and friends will be given such books upon request.

Sankar Datta, Ph.D.'59, remains with the Research Centre National Peroxide LTD in India. He was in New York briefly in 1988 but did not have time to come to IU.

William W. Faubler, Ph.D.'59, is the dean of the College of Liberal Arts and Sciences at Portland State University, not the Uni-
versity of Portland as noted in the previous newsletter.

1960-69

Ram Bedi, PhD '60, his wife, and two sons continue to move ahead well in their chemical manufacturing company, 2V Industries, Inc. The focus is "Innovative Products for Metalworking." Their products are especially important in the automotive industry. They hosted a dinner the week before the Dedication in Bloomington to honor Ram's former professors in the Chemistry Department and the reminiscing was enjoyed by those present.

John Pera, PhD '60, and his wife, Eugenia, were happy to be able to root the Hoosiers on to a win in the Liberty Bowl, right in their own backyard! Although he is retired from Buckman Laboratories, John is busy writing chapters for two different books.

Linneaus C. Dorman, PhD '61, a resident of Midland, Mich., has been awarded an honorary doctor's degree from Saginaw Valley State University.

E. Thomas Marquis, AB '61, and family are relieved that "Texaco's tribulations are but a memory." His primary responsibilities are in the development of less-toxic and environmentally safe solvent systems for various applications. He received his 47th U.S. Patent in 1988. All the family seems to be doing well.

P. K. Nargund, Post-PhD '61-63, whose son Ravi, PhD '88, is doing post-doctoral work with Gilbert Stork at Columbia, and whose daughter Asha completed a BS at Allegheny College and is working in a bank in Pennsylvania, is starting to think about selling his chemical business in Karnataka and emigrating to the States.

James H. Beeson, BS '62, is a member of the faculty of the Tulsa, Okla., Medical College; his specialization is in maternal fetal medicine.

Jack M. Gill, PhD '62, returned to campus occasionally. The last time — for the chemistry dedication — he brought his wife Linda and the two youngest children, who are twins interested in selecting the right university. The visit included a private dinner he gave honoring his graduate research mentor M. Carmack and Mrs. Carmack. Several former Carmack students and research associates, a few older faculty members, and the Gill family attended. He is now in Phase III of his Vanguard entrepreneurial activities in Silicon Valley. Three companies which evolved from his earlier investments are now thriving, publicly owned companies, traded on the NASDAQ marked: Aldus Corporation (Pagemaker software for desktop publishing); Digital Microwave Corporation (fiber optic and digital communications equipment for industry); and Myogen (genetic engineering firm developing ecologically selective and safe bioinsecticides).

Melvin Drueninger, BS '62, is now Professor of Chemistry and Director of research and Sponsored Programs at the University of Southern Colorado, Pueblo. Prior to this move he was on the faculty at Indiana State U.

Wendell Meyer, PhD '62, and Barbara attended the dedication of the new wings in October and were much impressed. Their children are both college graduates and away from home. Wendell is in Dow's technical information service and Barbara teaches at Northwood Institute in Midland.

Richard L. Wells, PhD '62, is professor of chemistry and Director of Chemistry for Executives at Duke University.

Samuel M. Berkowitz, MS '63, visited the Bloomington campus on the occasion of his daughter, Leah's, receiving her Master's degree in Speech Therapy in May 1988.

Minas Georgiadis, PhD '63, is doing well as head of his department in Athens. He has published more than 15 papers in English, and has a patent on an active antitumor agent. He hopes to spend a sabbatical year in the U.S.A again soon.

Franz Haaf, Post-PhD '63-64 spends much of his time traveling in connection with his work at BASF. His daughter Francesca is majoring in biology and chemistry at the University of Freiburg.

John W. Morgan, AB '63, remains in the pharmaceutical division of P&G at Norwich, NY. Their third child, Alison, is expected to enroll at IU next fall. There must be a strong attachment to Indiana.

Ralph W. Christoffersen, PhD '64, has received the W.E. Upjohn Award from the Upjohn Company. He lives in Kalamazoo, Mich.

Pradip K. Ghosh, PhD '64, is professor of chemistry at the Indian Institute of Technology at Krugerger. E. J. Bair was his major professor at IU. One of Ghosh's students is now studying in the Department of Computer Science at IU.

Bam Mehrrota, PhD '64, had surgery during 1988 but is now fully recovered. His wife, Bharati, was the recipient of a faculty award for "Excellence in Science and Technology" for Historically Black Colleges and Universities, given by the White House in Washington, DC. She will spend July to December 1989, at NIH in Bethesda, on leave from her present position at Tougaloo.

Robert G. Reed, MS '64, MD '65, has moved his practice from Indianapolis to Owensboro, Kentucky, where he joined a group developing a new open-heart surgery program.

Mohammad Behforouz, PhD '65, and Nancy are faculty members in chemistry and biology, respectively, at Ball State University. Their elder son, Michael, is a freshman at Indiana University-Bloomington this year, with interests in both biology and chemistry.

Gerald Dooden, PhD '65, at Ball State U., spends much time "trying to get programs to run on the Tandy 1000."

Loren G. Martin, AB '65, is the Director of Medical Education at the School of Medicine of the University of Oklahoma.

Judy McKevitt Douglass, MS '66, remains the coordinator of alcohol education and director of continuing education at Gustavus Adolphus College. She continues her interest in chemistry and in promoting academic summer camps in the sciences for promising high school students. She has an application pending for an NSF grant to support a summer "cooperative learning camp for women and minorities."

Angelo Lobo, PhD '66, is doing DNA synthesis work for his New York State Department of Health Laboratory. Son Stephen is a sophomore in biomedical engineering at Johns Hopkins. Michael, a high school senior, is interested in aerospace engineering.

Gary Madding, PhD '66, has recently been promoted from Process Development Manager of the Evansville Chemical Process Development Department (EVV-CPD) of the Bristol-Myers Company. He is now Research Fellow and he reports directly to the Associate Director of EVV-CPD. In moving to his current appointment Gary has been closely involved in much pharmaceutical chemistry research and he has patented some of the research and development.

Richard Ellis, PhD '67, still works with U.S. Department of Agriculture, for whom he traveled on business in China this year. Son Greg is now a Forestry major at the University of Arizona.

Edmund Flexman, PhD '67, works with the duPont Company which takes him traveling widely in the world in connection with the polymers applications. He and Ruth were recently in England and France. John C. Huffman, PhD '74, director of the Molecular Structure Center of this department, and coworkers were presented with the Polyhedron's Best Paper Award for 1987. The work was declared to be the most significant advance in inorganic and organometallic chemistry reported in Polyhedron 6, 741-757(1987).

Ralph White, PhD '72, and Anne (Hosch) PhD '72, are both scientists of Norwich Eaton Pharmaceuticals. She is involved with the development of a "total nutrition food for hospitals." He has returned to chemical research which involves international collaboration and included an exciting trip to Paris last November.

Carl W. Cotman, PhD '68, made his start
in neurobiochemistry as a graduate student here under H. R. Mahler's direction. For more than a decade his work, with associates, at the U. California, Irvine, has continued to be significant and newsworthy. Prominence was given to it in a lead article in Discover in 1984. In Science (16 December 1988) the Cotman research and that of several other groups is reviewed concerning their advances on understanding the delicate balance of certain populations of nerve cells in the brain "between normal stimulation (of one class of receptors) and a level of overstimulation that can kill them." The Cotman group is reported to believe that abnormalities in the receptor sites "may be associated with neurological disorders such as epilepsy and Huntington's disease." The concentration of the amino acid glutamate is a major factor in the receptor binding phenomenon. Cotman is a professor in the Department of Psychobiology at Irvine.

Tony E. Hugli, PhD'68, was among the many alumni who expressed regret that he could not be present for the dedication of the new facilities in October but he was here "in spirit." He is member in the Department of Immunology at the Scripps Clinic and Research Foundation.

Stewart W. Schneller, PhD'68, has contributed to the spread of the IU practice of honoring chemistry students who have made outstanding scholastic records. Through his leadership at the University of South Florida (enrollment 30,000), in 1988 the Department held its first Chemistry Scholarship and Awards Banquet. The format was very similar to ours. Stew has been chairman of the Department at USF for several years. It has become the second largest university in the southeast. He is Councillor for the Medicinal Division of ACS, and Faculty Representative of USF to the Sunbelt Conference and NCA.

1970-79

William F. Coleman, PhD'70, Professor of Chemistry at Wellesley College, is a member of the Executive Committee of the ACS Division of Chemical Education. In chemistry dedication symposium he was one of six panel members in the forum on Trends in Undergraduate Education.

Alan Dinner, PhD'70, is director of product development and regulatory affairs for Eli Lilly and Company and keeps busy in Washington on FDA business. He also organized an International Product Development meeting in London for a group of Lilly people from ten different countries. He has seen Tom Britton, BS'72, who recently completed his PhD at Harvard ('88), and is now employed at the Lilly Laboratories.

James W. Mair, MS'70, remains devoted to his work in industrial hygiene at Rohm and Haas. His focus is biohazards and ergonomics with much attention to the promotion of knowledgeable and earnest participation on the part of "first-line managers" in the large Research Division.

William G. Mays, AB'70, president of Mays Chemical Company, became a member of the IUf board in 1988. Among his many responsibilities he serves on the Governor's Commission for Minority Business Development and on the board of the Greater Indianapolis Chamber of Commerce. He contributes funds for minority student support through the Minority Achievers Program. The support is directed to chemistry and the Schools of Business and Nursing.

Delmar C. Sanders, BA72, continues actively in his field of neurosurgery in California and he remains loyal to the University.

Dale Schoeller, PhD'74, was a brief guest of the Department of Nutritional Sciences at the University of California at Berkeley in 1988. He gave a seminar on "Use of Doubly Labeled Water to Study Human Energy Requirements." His widely acknowledged research is a breakthrough in research on biological energy requirements. He is research associate with the rank of professor at the University of Chicago.

Andrew Komini, PhD'75, is now with the Special Chemicals Division, Koch Industries, Wichita, Kansas. Milton L. Lee, PhD'75, was the 1988 recipient of the American Chemical Society Award in Chromatography. The award is sponsored by Supelco, Inc., and includes $5,000 and a certificate. Lee is the H. Tracy Hall Professor of Chemistry at Brigham Young University in Salt Lake City, Utah.

Ron Forsch, PhD'77, continues his research at Sidney Farber Cancer Hospital in Boston and is now living in a new condominium in Brookline.

James Jorgensen, PhD'79, professor of chemistry at the University of North Carolina, and a former student of G. M. Hietjé, has accepted Curtis A. Monig for work in his laboratory as a recipient of an NSF postdoctoral fellowship. Curtis will soon finish his degree under Hietjé's direction.

Andrew M. Zweig, BS'79, after receiving a PhD degree elsewhere has become Research Specialist in Chemical Products at Allied Signal, Inc., Des Plaines, IL.

1980-88

Gregory Georgiadis, BS'80, MD'84, will finish his residency in orthopedics at the University of Michigan Medical School this year.

Daniel Flynn, Post-PhD'81-83, in the Grieco group, has accepted a position in G. D. Searle & Company in Chicago.

Astley McLaughlin, PhD'81, took a four-month leave of absence from Eastman Kodak Laboratories and spent the time building a house on Grand Cayman Island, but returned to Rochester on January 3, 1989.

Rosina Georgiadis, BS'82, received her PhD in physical chemistry from Berkeley, and is now doing post-doctoral work at the University of Oregon in Eugene.

Joseph Leonelli, PhD'82, after completing a three-year tour of duty in the U.S. Army where he served as Captain assigned to the Chemical Research and Development Center, joined SRI International in Menlo Park, California, as Program Manager in the Electrooptics Systems Laboratory in July 1985. He was recently promoted to Assistant Director in the same division. This work involves research and development of UV and IR LIDAR systems for use in air pollution monitoring, atmospheric chemistry and chemical detection. He is a relative neighbor of Brad Stone, PhD'84, who is an assistant professor of physical chemistry at San Jose State.

Taxarchis Georgiadis, BS'83, is completing his thesis at UCLA in organic chemistry. He and his wife, Millie (Marshall) Georgiadis, BS'84, continue to live in Los Angeles.

Andrew L. Ratennann, PhD'83, after spending postdoctoral research with Professors Gordon Stone at Bristol University, England, and Harry Alcock at Penn State, joined GenCorp in May, 1986, where he is a Senior Research Chemist working on polymer synthesis and polymer modification. He commonly encounters Gary Goeden, PhD'82, who works at SOHIO.

James Freeman, PhD'84, is now a director of research at the Upjohn Company.

David Honigs, PhD'84, formerly an assistant professor at the University of Washington, has moved to the East Coast and now works with the Pacific Scientific Company in the area of near-infrared spectrometry.

Bradley M. Stone, PhD'84, is assistant professor of physical chemistry at San Jose (Calif.) State University. He also serves as jazz music director at KSJS-FM.

Ada Casares, Post-PhD'85, in the Grieco group, has accepted a position at Stockton State College, Pomona, NJ.

Jahangir, PhD'85, and Ruhi Emran now live in Greensboro, NC, where Jahangir works in the Agriculture Division of Ciba-Geigy.

David P. Martin, BS'85, is an MD/PhD student at the Washington University School of Medicine in St. Louis.

Crystal A. Smith, PhD'85, is now living in Pennsylvania and working in Wilmington, Delaware, with HIMONT as a Research Chemist. Her work involves Zeigler-Natta catalysis and she gets to travel to Italy to
CHEMISTRY ALUMNI DONORS

Anonymous, BA’70
Anonymous, BA’62
James Warren Allen, MBA’86
Burton Lawrence Appleton, Ph.D.’58
Harold Lynn Atkins, BA’50
Charles Robert Baker, MA’48
Jean Catherine Beckman, Ph.D.’77
Ram Dev Bedi, Ph.D.’60
James Harold Beeson, BS’62
Mohammad Behforouz, Ph.D.’65
Nicholas Charles Bensko, MS’74
Glenn Allen Berchtold, Ph.D.’59
Raymond Edward Boucher, Ph.D.’50
Charles H. Boxman, BA’53
Malcolm Davonne Bray, BA’38
William Wallis Bromer, Ph.D.’54
Helmut H. Brugman, BA’66
Kenneth T. Burck, BS’58
John Eugene Burks, Jr., Ph.D.’79
Ernest E. and Jean White Campaigne
Emily McDonald Canada, BA’70
Marvin and Joan Carmack
William F. Carroll, Jr., Ph.D.’78
Rowley Vincent Cash, Ph.D.’52
Osmund Tak-On Chan, BS’72
Malcolm H. Chisholm
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THE CHEMISTRY COMPLEX viewed from the northwest. The 1930 building is on the left, the 1964 wing is the tall structure in the center, and the west end of the new 1988 wing, with the new loading dock, is at the far right.

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