Notes from the Chair

A new initiative on campus, termed the Bloomington Endowment Campaign, seems likely to have a major effect on our department. The campaign was recently launched in an effort to establish endowment funds for the creation of chairs and professorships on the campus. An important aspect of the program is that matching funds will be provided by the university for all gifts from individual donors that exceed $500,000. The extent of the match is dictated by the size of the contribution, but for amounts exceeding $1,000,000, the contribution from the university will equal the initial proceeds from the endowment.

The first benefit to the Department of Chemistry from this new program was the establishment of five new chairs in the College of Arts and Sciences—the result of a generous contribution from Linda and Jack Gill. Jack received his doctorate in organic chemistry under Marvin Carmack in 1965 and has been involved with the department, the College of Arts and Sciences, and the university in a number of ways since that time. The contribution from Linda and Jack is being used to establish the new Linda and Jack Gill Center for Instrumentation and Measurement Science. The new center is intended to be truly multidisciplinary and will involve individuals from a number of departments within the College, from other units within the university, and potentially from outside IU. At least two of the chairs are expected to be in this department.

Jack Crandall was named the new associate chair of the Department of Chemistry in September 1997, replacing Adam Allerhand, who stepped down on June 30, 1997. We thank Professor Allerhand for serving in this role for the past three years.

Professor Crandall will also continue to serve as the graduate advisor during the current academic year.

Ernest Davidson has agreed to be an associate editor for the Journal of Chemical Physics, beginning Jan. 1. Since this is a working editor position, there will be a branch office opened in our building. Having the journal office here should contribute significantly to the prestige of our department.

Our faculty members continue to receive national and international recognition. Since our last newsletter, 10 of our faculty have been honored. Malcolm Chisholm was selected by the College of Arts and Sciences Alumni Association for the 1997 Distinguished Faculty Award. This award is based on three criteria: research that has made a difference to the field and has brought recognition and prominence to IU; outstanding teaching contributions and high quality mentorship at both the undergraduate and graduate levels; and service to IU, the profession, the state, or nation. Current faculty members in the College of Arts and Sciences are eligible to receive the award.

Romualdo de Souza and Ted Widlanski were named Gill Fellows for the four-year period of July 1997 through June 2001. As Gill Fellows, they will each mentor an undergraduate student recruited as a Dean’s Scholar. Only five faculty members at IU were selected for this prestigious appointment.

Gary Wiggins, head of the Chemistry Library, has won the 1998 Herman Skolnik Award. The ACS Division of Chemical Information established this award in 1976 to encourage and recognize outstanding contributions to and achievements in the theory and practice of chemical information science. The award is named in honor of its first recipient, Herman Skolnik. Dr. Wiggins will receive the award and give an address at an awards symposium on Aug. 25, at the 1998 ACS National Meeting in Boston.

George Christou won the 1997 Akron Section Award of the American Chemical Society. This award is given to recognize the accomplishments of a young, outstanding chemist who lives within a 300-mile radius of Akron, Ohio. Professor Christou received the award at the Akron Section meeting on Nov. 19, 1997, when he delivered two lectures and visited with scientists in the Akron community.

Martha Oakley, Bill Scott, and Jeff Zaleski were selected to receive 1998 IUB Summer Faculty Fellowships. This competition was very intense due to the limited number of awards available. The faculty review panel selected only those applications that promised an activity of unusual excellence and significance.

John Huffman, senior scientist in our department, was elected a Fellow of the Indiana Academy of Science. Dr. Huffman was recognized at the annual meeting of the Academy at St. Joseph College in Rensselaer on Oct. 30. An active member of the academy since 1966, Dr. Huffman has held several positions, including chair of the Youth Activity Committee, and has been a member of the IAS State Museum Advisory Board.

John was recently listed as the seventh most-cited chemist in the scientific literature by the Institute for Scientific Information over the period 1981–June 1997. This information was gathered by David A. Pendlebury, an analyst for the ISI research department. The most highly (continued on page 2)
The StereoView Room, located in room A400 of the Chemistry Building, provides interactive stereoscopic visualization of molecular models. Audiences wearing specialized liquid crystal display glasses or 1950s-style 3D paper glasses, can view computer-generated models of molecules, which truly appear to be three dimensional. The StereoView Room is one of only three facilities at Indiana University that can create virtual environments for research investigations.

The ability to interact with molecular models in a 3D virtual environment provides the chemist with an outstanding tool for many chemical modeling investigations. Such investigations include the modeling of biomolecular associations, building and comparing complex enantiomeric model structures, and computer simulations of molecular motions. Marty Pagel, PhD, director of the Molecular Visualization Facility of the Department of Chemistry, compares the two-dimensional representations of standard computer modeling to sculpting using only pencil and paper; the StereoView Room revolutionizes how the chemist can think and learn about chemistry in a completely different dimension.

Molecular models can also be displayed on a variety of other computer systems, including the 41 Silicon Graphics workstations located throughout the Chemistry Building. Web browsers can access many Internet sites that provide tools for viewing molecular models, including Internet sites within the chemistry department. However, the resulting image displayed by these computers is still viewed on a two-dimensional screen — there is no true perception of three-dimensional depth. The StereoView Room provides a new, state-of-the-art facility for combining the effectiveness of hand-built models with the efficiency of computer-generated models.

In 1971, Distinguished Professor Emeritus of Biochemistry F.R. Gurd assembled a model of myoglobin. The model was constructed of precisely bent wire segments representing the amino acids, each fragment fastened to its neighbors using links that were screwed together. Wires were stretched throughout the structure to ensure that the various parts were held in proper alignment. A separate “space-filling” model is visible in the background of the photo above. Working with an associate, Gurd required three weeks and an entire 20x30 foot room to assemble the model. Today, a comparable three-dimensional model of myoglobin (and thousands of others) can be displayed in the StereoView Room in a matter of seconds.

With digital technology, it is also possible to switch between the wire-frame model and the space-filled representation, or to show different portions of the model in different modes. Viewing the model in a three-dimensional stereoscopic display mode allows researchers to jump “into” the virtual image to look for chemically active sites and important chemical interactions within the molecule.

More information about the StereoView Room is available at [http://molvis.chem.indiana.edu/tour/SVR.html](http://molvis.chem.indiana.edu/tour/SVR.html).

Contact Marty Pagel to arrange a demonstration of how interactive virtual environments are applied to chemical instruction and research. The StereoView Room is made possible through joint sponsorship by the Research and University Graduate School and from funding through the New Computing Initiatives Program provided by the Office of the Vice President of Information Technology.

— Marty Pagel

From the chair (continued from page 1)

cited top 50 chemists represent the top 0.01 percent worldwide in terms of total citations. This top 50 list can be found on the Web at [http://www.ch.ic.ac.uk/citation.html](http://www.ch.ic.ac.uk/citation.html).

Josef Zwanziger was selected by the Alexander von Humboldt Foundation as a recipient of a Humboldt Research Fellowship. Humboldt fellowships are awarded competitively, in all areas of the sciences and humanities, to support foreign scholars under the age of 40 doing research in Germany. The application must be sponsored by a German research professor. Professor Zwanziger is using the fellowship during his stay at the Max Planck Institute for Polymer Research in Mainz this semester, where he is working with Professor Hans Spiess on nuclear magnetic resonance studies of polymer electrolytes.

Congratulations to all!

— Gary M. Hieftje
PAST TO PRESENT: TWO PERSPECTIVES

Fifty years ago...

The year 1948 was a big one for the IU Department of Chemistry. Our new chair, Frank T. Gucker Jr., who had joined the department in 1947, had put exciting plans into operation. Among the many important developments in 1948 were the appointment of Felix Haurowitz as professor of biochemistry, the establishment of the Southern Indiana Section of the American Chemical Society with headquarters in Bloomington, and the formation of the Association of Indiana University Chemists.

Gucker was eager to promote relationships with chemistry alumni. He took as a model the one he knew best, the Association of Harvard University Chemists. An organizing committee made up of Frank Mathers, John Billman, and John Peake (as chair) began by mailing a letter to all the chemistry alumni of known address, inviting them to attend a dinner at the spring ACS meeting in Chicago in 1948. The alumni attending that meeting were enthusiastic. The plans concerning an association of chemistry alumni were announced in the Indiana Daily.

FIRST OFFICERS OF THE SOUTHERN INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY, OCTOBER 1948 — from left: Aris Rector (secretary), Frederic Schmidt (treasurer), I.C. Gunsalsis (vice chair), Ernest Campagne (chair), Frank Gucker (councillor), and Lynne L. Merritt (alternative councillor).

Student on April 20, 1948. At that time 1,200 graduates in chemistry were eligible for membership, but faculty, ex-faculty, postdoctorals, and others associated with the department were included in the membership. Today our membership in AIUC exceeds 8,000.

— E. Campagne

(Details of events in 1948 in the chemistry department at Indiana University can be found in H.G. Day's Development of Chemistry at Indiana University in Bloomington, 1993, Chapter VIII, pp. 371–432.)

On ties that bind....

Last year, I celebrated the 50th anniversary of my graduation from IU. The IU Alumni Association had arranged a number of festive reunion events for the 50-year class. At first the turnout seemed to me disappointingly small; on reflection, however, I should not have been surprised. The majority of the Class of 1947 was made up of returning veterans of World War II. We were husbands and fathers, anxious to complete our studies, find a job, support our families, and get on with our lives. There was almost no time to participate in the traditional collegiate social life of the university — the stuff of which fond memories are made.

What is it, then, that continues to draw me back to this institution and particularly to this department? In the 1950s and 60s, I returned occasionally to attend various departmental affairs — sometimes to participate, but more often just to visit friends, to meet new students and faculty, and to listen. For the period 1971–76, I was invited to become one of the visiting industrial professors. Thanks to a generous and thoughtful employer, I was able to spend several weeks during each of those years on campus. It was then that I began to realize that there was some kind of enduring spirit that attracted and held me — a sense of loyalty that I had unconsciously acquired. This feeling has transcended the vagaries of time.

When I was nearing retirement from my industrial position in 1986, I was delighted to be offered an adjunct professorship in the chemistry department. This courtesy appointment has enabled me to remain close to the science that I love and to feel that I can occasionally help with some departmental problems.

I am very pleased when my knowledge and experience turn out to be helpful with a problem that a student or faculty member may have. Early on, my industrial and academic contacts were of some value, but with the passing years, these are decreasing as my friends also retire. Nevertheless, I continue to come to my office in the Chemistry Building two or three days each week — always with great anticipation. It is not just the science that brings me there — it is the friendship, the altruism, the pervasive search for knowledge. It is my intellectual home.

— Max Marsh
Lecture news

The fall and winter lecture series began this year with the first of the Seminars in Organic Chemistry, presented by Professor Dennis A. Dougherty. On Sept. 17, Dougherty, of the Department of Chemistry at the California Institute of Technology, lectured on the topic “High Precision Studies of the Nicotinic Receptor: Physical Organic Chemistry on the Brain.”

On Oct. 22, Milton L. Lee, H. Tracy Hall Professor of Chemistry at Brigham Young University, Provo, Utah, presented the Shell Distinguished Lecture. His subject was “Analytical Chemistry Instrumentation: From Concept to Commercialization.” Lee’s entrepreneurial efforts have resulted in his being awarded the Utah Governor’s Medal for Science and Technology. He studied at IU with Professor Milos Novotny and received his PhD here in 1975.

The Raymond Siedle Lecture was given on Nov. 19 by Dietmar Seyferth, Robert T. Haslam and Bradley Dewey Professor of Chemistry at MIT. He discussed “The Surprising Organometallic Chemistry of Acetone Dianions and Monoanions.” Seyferth is a member of the American Academy of Sciences and is editor of the journal Organometallics.

Henry F. Schaefer III, Graham Perdue Professor of Chemistry at the University of Georgia, spoke on Dec. 3. He gave the 1997 Distinguished Lecture in Computational Chemistry on the subject “The Third Age of Quantum Chemistry.” This lecture is sponsored by the Quantum Chemistry Program Exchange. Schaefer is director of the Center for Computational Quantum Chemistry at the University of Georgia.

— Max Marsh

Faculty news

Malcolm Chisholm had another busy year on the lecture circuit, visiting more than 20 universities and industrial laboratories. He participated in the 60th birthday celebrations for Roald Hoffman (Cornell University), Gottfried Huttner, and Walter Siebert (Heidelberg). He gave the Gillespie Lectures at University College London and will present the Lee Lecture (University of Chicago) and the George Watt Centennial Lecture (University of Texas at Austin) this spring. He gave a five-lecture course at the French-speaking universities of Switzerland in January and is the organizer of a special symposium in honor of Professor F.A. Cotton, who will receive the ACS Priestley Medal at the Dallas meeting of the American Chemical Society. In January, Chisholm assumed editorship for the Americas of the inorganic journal Dalton Transactions and will continue as an associate editor for Chemical Communications and Polyhedron Symposia-in-Print. In November, he went on the ACS Chisholm Trail Speaking Tour, giving four talks in Oklahoma and Arkansas.

Dec. 7-15, he was in Taiwan attending and speaking at a mini-symposium at the National Tsing Hua University in Hsinchu, and was one of the plenary lecturers at the 1997 International Chemical Conference on Chemical Synthesis in Taipei. While in Taiwan he met with two of his former co-workers, Professor Hsin-Tien Chiu, PhD’86, Chiao Tung University, and Professor Jui-Hsien “Cary” Huang, postdoc’95-’96, Chiao Yang University of Technology.

There will be a gathering for George Ewing on the occasion of his 64th birthday and to celebrate his receiving a Chancellor’s Professorship. Former student David Chandler, PhD’80, writes in his invitation letter: “The reunion/symposium of his ex-students and postdocs is to commemorate and celebrate George’s career and to thank him for being part of our professional lives. In order to ensure that George would be in town we have informed him of this gathering. The reunion/symposium will be held on Friday, May 15, and Saturday, May 16, 1998. We hope to have short talks, on a subject of your choice, by those attending on the 15th and a picnic gathering on the 16th.” Contact David Chandler at chandler@california.sandia.gov for further information.

William Lumbley, MAT’63, has been appointed visiting faculty lecturer, with teaching responsibilities in Freshman Chemistry and as a liaison with the Advanced College Project, in which high school students may earn C105/125 credits at their high school, in classes taught by teachers who are trained for the job by Lumbley and Professor Peters. About 25 high schools throughout the state are involved. Lumbley was one of the first MAT students to receive a degree under the summer program for high school teachers, and he remembers fondly the days when professors Jerry Schmidt, Bob Fischer, Bill Nebergall, Chris Kaslow, Harry Day, and Ed Bair led the way to hot, sticky classrooms and laboratories in the old, original building. Bill received a (continued on page 5)
Grieco honored at summer sendoff

Paul A. Grieco was honored at a reception in appreciation of his nine years of service as chair of the department (1988–1997). The special event was held at Woodburn House on a lovely summer evening, July 1. Most of the entertainment was outdoors, partially under a tent, and was attended by nearly all faculty and staff of the department. Gary Hieftje, our new chair, acted as master of ceremonies, having returned from a temporary assignment in Germany especially for the occasion. Several faculty and staff spoke and expressed their appreciation for the opportunity to serve with Paul.

Paul received an IU rocking chair, an afghan for his knees, and a pair of binoculars, all to encourage him to sit on his patio and survey the Montana landscape. We wish Paul and Barbara the very best at their new home in Bozeman, where Paul will be professor of chemistry at Montana State University.

— E. Campaigne

Faculty news (continued from page 4)

bachelor's degree in chemistry from Purdue. He first taught high school mathematics in 1958 and later chemistry at Howe High in Indianapolis. He taught Nuclear Radiation Effects for Civil Defense while working for the IU Extension Division in 1965–67, and then joined the chemistry staff at Bloomington South High School, from which he retired in June 1997.

Professor Martin Stone and his wife, Julie, have a new daughter, Camille Phillips Stone, born on Sept. 16, 1997.

Professor David Williams continued his service for the National Institutes of Health Med Chem Study Section A. Additionally, he accepted numerous invitations to speak at universities and industrial corporations, as well as at national and international scientific meetings. Williams lectured at the CU-Hauser Natural Products Chemistry Symposium, held at the University of Colorado, Boulder; the 16th International Congress of Heterocyclic Chemistry, held at Montana State University, Bozeman, on Aug. 10-15; and the 214th American Chemical Society National Meeting, held in Las Vegas on Sept. 7-11. He also lectured at the R.W. Johnson Pharmaceutical Institute in Raritan, N.J., in June; the State University of New York at Albany in September; American Cyanamid in Princeton, N.J., in October; and Case Western Reserve University in Cleveland, Ohio, in November. His international lecture tour included the XVII Conference on Isoprenoids, held on Sept. 20–26 in Krakow, Poland, as well as at the Université Pierre et Marie Curie; the Laboratoire de Chimie Organique, ESPCI; and Unité Mixte CNRS–Roussel UCLA (UMR 26), all in Paris, in September and October. Williams attended the Sixth French-American Chemical Society Meeting on Synthetic Organic and Bioorganic Chemistry, held on March 16-20 in Tucson, Ariz.

Staff news

The major news in the department since the last newsletter concerns the retirement of a long-time staff member, Robert Ensmann. Bob elected to retire, somewhat early, as manager of electronic instrument services effective Oct. 10. He was initially appointed to the staff on Sept. 1, 1963. Ensmann washed dishes in the chemistry stockroom while he was enrolled in graduate school here and was later employed as an instrument specialist until June 1975, when he became our chemical instrumentation engineer. Ensmann is an active member of his church, an avid traveler, enjoys canoeing, hiking, and running (with the “guys” during lunch), and is a member of the Ivy Tech Electronics Advisory Board. He was a co-winner of the Chemistry Staff Award in 1987. John Poehlman, who joined the staff in September 1988, has been appointed interim director of electronic instrument services.

Mike Mayer joined Professor Stone's lab as a research technician on Aug. 4. Mayer received his MS in biological chemistry from Penn State and worked as a research technician at Penn State and in quality control at Nittany Pharmaceuti-
Library news

Roger Beckman is the acting head of the Chemistry Library during the first half of 1998, while Gary Wiggins serves as the acting head of the School of Music Library. Beckman will complete his term as chair of the Special Libraries Association Chemistry Division in June when he presides over the division’s sessions at the SLA National Meeting, to be held in Indianapolis. Miwako Tamura retired in September after eight years as our data base coordinator. Her position was redefined as the science libraries computer coordinator. The first person to hold the new position, which is based in the Chemistry Library, is Denis Taaffe. The SLIS graduate assistant this year is Deanna Capparici. Russell McCoy, a retired chemist, has been volunteering his services in the library for the last two years. His wife, Ruth, who is also a chemist, puts in volunteer time at the Swain Hall Library. A science library is once again being considered seriously for the Bloomington campus.

— Gary Wiggins

Graduate news

- PhD recipients, with area, research professor, and first position accepted for the 1996–97 academic year:
- Missy A. Bolcar (inorganic, G. Christou), State University of New York at Binghamton, postdoctoral fellow/temporary lecturer.
- Bjorn Borup (inorganic, K.G. Caulton), returned to Germany.
- David S. Bracken (physical, V.E. Viola), Los Alamos National Labs, Los Alamos, N.M., postdoc.
- Thomas W. Burgoyne (analytical, G.M. Hiefiet, R.A. Hites), Biogeochemical Laboratories, IU Bloomington, postdoc.
- Stephanie L. Castro (inorganic, G. Christou), Georgia Institute of Technology, Atlanta, postdoc.
- Hilary J. Eppley (inorganic, G. Christou), IU Bloomington, postdoc/visiting lecturer.
- Bruce C. Follows (organic, W.R. Roush), University of Texas at Austin, postdoc.
- Darin J. Gustin (organic, W.R. Roush), Scripps Research Institute, La Jolla, Calif., postdoctoral fellow.
- Todd M. Hamilton (physical, R.T. deSouza), IU Bloomington, visiting lecturer.
- Scott T. Handly (organic, P.A. Grieco), Stanford University, Stanford, Calif., postdoc.
- Kevin S. Kolack (inorganic, G. Christou), Indiana University, visiting lecturer.
- Patrick P. Mahoney (analytical, G.M. Hiefiet), Merck Co. Inc., West Point, Pa., senior project scientist.
- J. Miles Maxwell (physical, P.J. Ortoleva), Commodities Exchange (Hall Trading Co.), Chicago.
- William L. Nowatzke (biochemistry, J.P. Richardson), Washington University, St. Louis, clinical chemistry fellow.
- Song Kyung Oh (biochemistry, N.R. Pace), Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y., postdoc.
- Kimberly G. Olsen (analytical, S.E. Creager), Loyola College in Maryland, Baltimore, assistant professor.
- Marta M. Pinheiro-Nunez (organic, P.A. Grieco), Colorado State University, Fort Collins, postdoctoral fellow.
- Stephen Ponnampalam (biochemistry, C. Bauer), Cleveland Clinic Foundation, Cleveland, postdoc.
- Jeffrey K. Stowell (biochemistry, T.S. Widlanski), AKZO Nobel Chemicals, Dobbs Ferry, N.Y., research scientist.
- Jan Sudor (analytical, M.V. Novotny), Institut Curie, Paris, France, postdoc.
- Darin B. Tiedke (inorganic, M.H. Chisholm), ETH, Zurich, Switzerland, postdoc.
- Randall E. Youngman (physical, J.W. Zwaninger), University of Illinois, Urbana, postdoc.
- Michael L. Zimmerman (biochemistry, D.L. Daleke), University of Notre Dame, South Bend, postdoctoral fellow.

(continued on page 7)
A U N N S

Last August, Mark R. Anderson, BS'83, and his wife, Ann, were in France, where he presented a paper at a chemistry meeting. Besides this, they spent some time in various historic places. Of course, this gave close relatives in France the opportunity to become better acquainted with his two young children. At Virginia Tech, where he has already attained tenure, some of his teaching time is devoted to general chemistry. Also, he spends much time usefully on the Internet. This even includes some work on his teaching at the university.

Eric Bassler, BA'86, MA'88, and his wife became Peace Corps volunteers and were sent to Albania to help staff a business information center, giving seminars and teaching business people marketing, advertising, and bookkeeping. They found the Albanians were lacking in business knowledge. They returned to Indiana and were here when the situation became serious in Albania and all Peace Corps volunteers were evacuated. They went to the Ukraine on further assignment last spring.

Ram D. Bedi, PhD'60, continues to work hard in promoting the Bedi's "Revolutionary New Way of Changing Engine Oil." In September 1997, their new company, ESOC Inc., released a convincing and attractive mailing, which concludes with the statement: "ESOC is fast, easy to operate, and responsive to operator safety and environmental concerns. ESOC received a 1993 National Inventors Award at the Annual Inventor's Exhibit sponsored by the U.S. Patent and Trademark Office. Any way you look at it — ESOC is a world-class and innovative oil change (continued on page 8)

AROUND IU CHEMISTRY
Graduate news
(continued from page 6)

• Recipients of master's degrees:
  Anthony M. Densmore (analytical, G.M. Hieftje).
  Michael A. Farley (biochemistry, T.S. Widalanski), Covenant Theological Seminary, St. Louis, seminary student.
  Rachel G. Henriques (organic, T.S. Widalanski), Parkland College and University of Illinois, Champaign, instructor.
  Heng Lee (biochemistry, A. Bender), working in patent law in Taiwan, Republic of China.
  Linda H. Lucas (organic, T.S. Widalanski), Indiana University Optometry School, student.
  Horng-Ding Luoh (analytical, S. Nie), college teacher in Taiwan, Republic of China.
  Matthew A. Lynn (inorganic, M.H. Chisholm), University of Arizona, Tucson, student.
  William A. Lyon (analytical, S. Nie), Affymetrix, Santa Clara, Calif., research associate.
  Stacey L. McDaniel (organic, W.R. Roush), Eli Lilly, Indianapolis, chemist.
  Elba Michellea de Baex (organic, J.K. Crandall), Universidad del Zulia-Venezuela, teacher.
  Beth A. Plattner (organic, D.R. Williams), Abbott Laboratories, Abbott Park, Ill., associate chemist.
  Zuleika Saz-Parkinson (biochemistry, D.L. Daleke), teaching in Spain.
  Kathryn E. Shanks (analytical, G.M. Hieftje), IU Bloomington, student.
  Mary W. Tarkard (analytical, R.A. Hites), environmental counseling.
  Jennifer M. Tinsley (organic, P.A. Grecco), Eli Lilly Corporate Center, Indianapolis, research associate.

— Pat Stapleton

Undergraduate news

This fall, Dennis G. Peters, Briscoe Professor of Chemistry, continued as coordinator of undergraduate studies with Steven M. Wietstock continuing as coordinator of instructional programs.

In 1996–97, we graduated 117 students (112 graduated in the 1995–96 academic year). Of these students, 13 received BS degrees in chemistry, 42 received BS degrees in biochemistry, and 62 received BA degrees in chemistry; a total of 34 students received ACS certified degrees in chemistry. For the first time in several years, the number of BA degrees awarded surpassed the number of BS chemistry and BS biochemistry degrees awarded. Medical and dental schools continue to attract about a third of our graduating seniors, another third find employment in industry, and the remainder go to graduate school in chemistry or related fields. A total of 56 students were engaged in undergraduate research during 1996–97.


There were 29 schedules available to PhD and postdoctoral candidates, 24 schedules for MS candidates, and 24 schedules for BS chemistry and biochemistry candidates. A total of 27 PhD and postdoctoral fellows, six MS students and 19 undergraduates used the placement service this fall. This year, we are seeing a much improved job market for all candidates in the chemical sciences. Several recruiters mentioned the need for undergraduates to have relevant internship experiences. The instructional support office is working to provide a summer internship registry for the undergraduate students. If you are aware of any such opportunities, we would appreciate hearing from you. Our phone number is (812) 855-2700, and our e-mail address is chemiso@indiana.edu.
Social Hour in Las Vegas

A meeting of IU alumni, staff, and students took place at the fall meeting of the ACS at the Aladdin Hotel in Las Vegas. Attending the party were Malcolm Chisholm, Gary Wiggins, and Martha Pacold from IU; Jack Li Parke-Davis, PhD ’95; Julianna Hunt, PhD ’96, of Princeton University; and Eric Maatta, PhD ’80, of Kansas State University. The mood was festive, especially with the fresh news of Gary Wiggins’s selection to receive the Herman Skolnik ACS Award.
— Malcolm Chisholm

Alumni news
(continued from page 7)

system.” The special appeal of the new compact system is to the huge trucking industry. In essence, it “uses clean, dry air to purge used oil from a vehicle’s engine and filter, and replaces it with clean oil, automatically — using minimal time and labor.” The company is now beginning to push for widespread adoption in the automotive industry. May there be high success for Environmental Safe Oil Change.

Ronald J. Brinegar, BA ’88, DO ’93, has returned to Bloomington to assume the optometry practice of James Way. Since graduation, he has been practicing in Owensboro, Ky., and is board certified in the treatment and management of eye disease.

David Clark, PhD ’87, has been appointed director of the Seaborg Institute for Transactinium Science at the Los Alamos National Laboratory.

William E. Creek, BS ’45, after spending many years in pharmaceutical sales in the Midwest for Pfizer Inc., retired in 1988 and now spends his time on photography, astronomy, golf, reading, and volunteer work for AARP.

Philip A. Downing, BA ’93, after serving as a research scientist at GFI Pharmaceuticals Inc., Evansville, has now become the radiation safety officer for the company.

Andrew I. Engel, MS ’88, is now a practicing OB/GYN physician in the Washington, D.C., suburbs.

Donnell D. Etzwiler, M.D., BA ’50, retired last fall from the presidency of the International Diabetes Center in Minneapolis. He writes that he is still active consulting, lecturing, and writing. He remembers his years at IU with appreciation.

Maury L. Fisher, M.D., BA ’80, and his wife have earned their private pilot’s licenses, and he has ratings for instrument flying, engine landing, single-engine seaplane, and tail dragger. They have purchased a private plane and enjoy flying from their Florida home.

Ignacio Faus, PhD ’88, who worked in the research group of John Richardson, is now the director of the Biotechnology Area of Unquima S.A., a part of the Uriach Group in Barcelona, Spain. Ignacio is married to Leila Onbargi, an obstetrician with a practice in Barcelona. They have two children, Alexa and Paul.

William W. Forgey, BA ’64, MD ’75, is the unique and interesting subject of a full-page article in the Jan/Feb issue of the INDIANA ALUMNI MAGAZINE (p. 64). As vividly explained in the article, Forgey has “a family medical practice in Merrillville,” but he has a passion for exploration in northern Canadian woods under harsh conditions of frigid weather. This began “during his undergraduate days at IU Bloomington, where he explored caves. He continued to hone his outdoors skills with the Boy Scouts of America, leading troops while he was in the Army (including 30 months in Vietnam).” Following this and “after receiving his medical degree in 1975, Forgey went home to Lake County, where he worked for six years as an emergency room physician at the Ross Clinic in Merrillville.” He began to wonder how he “would deal with such situations in the wilderness.” This “led him to produce his first book, Wilderness Medicine, in 1979. Now in its fourth edition, it is perhaps the most frequently consulted layman’s guide to bush medicine.”

As the article points out, Forgey is now in his middle fifties, but is still an adventurer: “He serves on the boards of trustees of three international organizations, the Wilderness Medical Society, the Wilderness Education Association, and the International Association for Medical Assistance to Travelers.” Besides this, Forgey has other related and time-consuming associations. The contributor of this article is Ronald A. Trigg, now retired from a career in the State Department.

Gennaro Junho Gamma, PhD ’94, writes that he became a professor at the Federal University of Minas Gerais State (Brazil) and that he has been appointed head of lab safety and is trying to start research in the field of molecular routes to ceramics.

Charles E. Hammond, PhD ’89, is now senior research group leader of CONDEA Vista Co., Texas. Michael Harrell, BS ’85; MS ’90, is now the environmental manager for the Medusa Cement Co., Wampum, Pa. Forbes lists Medusa as one of the top five small companies.

Jonathan A. Horwitz, BA ’94, completed work for the JD from the University of Cincinnati College of Law in May 1997.

Rudolph Jaffe, PhD ’85, under the direction of R. Hites, has recently been appointed associate director of the Southeast Environmental Research Program at Florida International University, where he is associate professor in the chemistry department. He spent several years at Universidad Simon Bolivar, Venezuela, before coming to IU.

John R. Kagel, MS ’83, has been promoted to senior scientist in the Department of Pharmacokinetics and Drug Metabolism at Parke-Davis.

George S. Kriz, continues to be heavily involved in his chemistry teaching and textbook writing at Western Washington University. As he and his wife, Carolyn, wrote in 1997, “the work continues to bring its rewards.” They are working together in bringing out the next edition of the “microscale” laboratory textbook. Their new edition of the “macroscale” laboratory textbook was published in mid-1997. In August 1997, he and other members of his high school class in Santa Cruz, Calif., held a reunion in celebration of the 50th anniversary of their graduation. Besides helping in writing and revising textbooks, Carolyn is the organist in their church at Everson, Wash., and both she and George sing in the Whatcom Chorale.

Mark Allen Krockover, BA ’93, has been teaching four years now at Maine East High School, Park Ridge, Ill.

Theodore Largman, PhD ’52, in L.H. Klemm’s group, has been a successful organic chemist in industry since leaving IU, as indicated in part by the 35 patents he has received on some of his work. But since his retirement as a senior research scientist he has become an ardent and productive artist. As reported extensively in the Dec. 26, 1996, issue of the local Out & About paper of Morristown, N.J., where he lives, “his art work is quite serious and is already attracting attention from a number of large universities.” The well-illustrated article emphasized that “Seeing his studio, it becomes clear that he is absorbed in whatever his work is. As he picks up a piece of clay or carves raw surfaces of wood, he examines, dissectgs, paces in silence, and often runs to his library of books to complete the stream of consciousness.” Yes, good chemistry
must have helped in preparing for this life in retirement.

In October 1997, Milton L. Lee, PhD'75, began the department's annual Distinguished Lecture Series as the Shell Lecturer on the topic "Analytical Chemistry Instrumentation: From Concept to Commercialization." After a postdoc year at MIT, he joined the faculty at Brigham Young University, where he is presently the H. Tracy Hall Professor of Analytical Chemistry. He has become distinguished for his contributions in capillary gas chromatography and special applications, including time-of-flight mass spectrometry. His authorship in chemistry includes books and patents, as well as many research papers. One of his earlier special recognitions was in 1987 when he was the recipient of the first annual Governor's Medal for Science and Teaching in the state of Utah. In 1997, he received the ACS Award in Chromatography. The extensive report on this and other achievements and recognitions in Chemical & Engineering News (Nov. 9, 1997) stated in part: "His pioneering work on capillary supercritical fluid chromatography (SFC) has had a significant influence on modern separation science." His research mentor at IU was M. Novotny.

Last July, Alexandra S. Lipps, BA'93, JD'96, joined the firm of Plews Shadley Racher & Braun, Indianapolis, as an associate.

Charity L. McCoy, BA'94, MS'95 in Physiology at IUPUI, tells us she is now working in Organ Transplant Testing at Riley Hospital.

Rod Moss, PhD'51, and his wife, Phyllis, met with Rainey and Marvin Bothwell, BA'48, MA'52, PhD'52, for lunch at the Arizona Inn in Tucson. The Mosses live in Prescott, Ariz. and the Bothwells in Midland, Mich.

Paul A. Pappalardo, PhD'82, under the direction of P. Magnus, has been with DiverseyLever Inc., a division of UniLever, in Plymouth, Mich., the past eight years, providing fundamental research on detergents and their interaction with glass and plastics.

Last March, James Gregory Perkins, BS'67, PhD'73, was named senior vice president, regulatory and quality systems, for Solvay Pharmaceuticals Inc. He joined the company in 1994 and before that he worked at Hoffmann-LaRoche, and Burroughs Welcome Co., and served as FDA Liaison for cancer and endocrine products at Mead Johnson and Co.

Frank P. Popoff, BA'59, DSc'88, chair of the Dow Chemical Co. board, is also a member of the Chemical Heritage Foundation Advisory Board.

Rachael Henriques Porter, MS'97, who had been teaching at Oakland College in Illinois, has moved with her husband to Syracuse, N.Y., where she is an adjunct instructor at Le Moyne College. In addition, she has updated a study guide for a general chemistry textbook and has updated a test bank for an organic text.

Ralph M. Pratt, BA'51, MD'55, retired from the practice of pathology in 1990 and is now chair of Farmers Bank of Milton, Ky.

Kevin R. Rays, BS'86, MD'90, is now a board certified general surgeon and lives in Las Vegas, where he is in private practice.

Wendell L. Roelofs, PhD'64, internationally recognized for his breakthrough chemical research in applied biology using insect pheromones in pest control, is still chair of his department at Cornell University. No doubt, he is greatly aided by his wife, Donna, who serves as the department's administrative manager. In addition, she teaches aerobics at the local YMCA, and Wendell is a faithful member of the class, which meets at 6 a.m. Clearly, he is in good shape, both mentally and physically.

Delmar C. Sanders, BA'68, MD'72, has served as head of neurosurgery since 1984, initially at Providence Hospital in Oakland, Calif., and then with the same responsibility after that hospital merged with a nearby hospital. The merger is now designated Summit Medical Center in Oakland. In 1997, having reached 50 years of age, he retired from the administrative role. He is now happily devoting all of his professional time to neurosurgery, which he has enjoyed during the last 20 years. In addition, in 1997, he opened a relatively small and very attractive cottage-like structure near his beautiful new home overlooking a portion of Oakland. It is to accommodate a few qualified convalescent patients, who, no doubt, are benefited by the impressive landscape. The newly built and landscaped private area is naturally designated Casa Delmar.

J.S. Sandhu, postdoc'80-'81, with E. Campagne, has been appointed acting director of the Regional Research Laboratory at Jorhat, India. Sandhu's research interest is confined mainly to synthetic organic chemistry with special reference to biomolecules. He is a Fellow of the Indian National Science Academy and has published more than 163 research papers in national and international journals in the field of organic chemistry. He has authored one book and two reviews and holds an international patent. Under his guidance more than 15 students have earned PhDs from different universities in India.

Mark Edward Schneider, BA'96, is studying philosophy, politics, and economics as a Marshall Scholar at Oxford University in England.

Dale A. Schoeller, PhD'74, began to be notably recognized in 1987 when he received the prestigious Mead Johnson Award and cash prize for "investigators under 40 years of age who have performed outstanding research in nutrition." This was for his validation and application of the doubly labeled water technique for the measurement of energy balance in man and many animals. The extensive research and application of basic approach to the study of energy metabolism has been revolutionary, as ably reviewed by Crayon and Johnson in Nutrition Today (32, 69-74, 1997).

Since 1972, Schoeller and colleagues have published more than 100 articles on this subject, and he has delivered more than 35 major invited lectures in this country and abroad on the general subject. In 1997, he was a co-chair of a symposium at the meeting of the American Society for Clinical Nutrition in Montreal, Canada, at which he also gave a paper, both on the subject of this research. In addition, Schoeller is treasurer of this society. His graduate work at IU was directed by John Hayes, and he was a co-author of five of the early papers on doubly labeled water, which led to the basic discovery and development.
Robert B. Forney Sr., BA’38, MA’39, PhD’48, died in Carmel, Ind., on Sept. 6. As a doctoral degree graduate student, some of his course work was taken on the Bloomington campus and some at the Medical School in Indianapolis. All of his research work was with the late Professor Rolla Harger, who invented the Drunkometer. They established the physiological basis for breath alcohol concentrations. Forney later established impairment standards, enabling Indiana to become the first state to enact a drunk driving statute based on chemical test results. He was also a pioneer in the study of marijuana. He worked with NASA on the effects of medications on astronauts and with the U.S. Army on the problems of chemical weapons and veterans’ drug use. The first Indiana state toxicologist, Forney served as president of the American Academy of Forensic Sciences and of the International Association of Forensic Toxicologists. In 1977, Indiana University named Forney a Distinguished Professor. He retired in 1991, after 43 years on the faculty and more than three decades as director of the State Department of Toxicology. In 1977, he was awarded the title Distinguished Professor Emeritus. Beginning in 1965, he received many high honors and other recognitions. The first was as a professor of law from the Indiana Central College (now University of Indianapolis). The title Kentucky Colonel was received in 1965, and, in 1988, he was named Sagamore of the Wabash. Perhaps his most meaningful professional recognition came in 1990 when he received the National Safety Council Robert F. Borkenstein Award.

Donald R. Maulding, PhD’62, died at his home in Branchburg, N.J., on April 11, 1997, at age 60. Don earned a bachelor’s degree at the University of Evansville in 1958, where he was a star baseball player. He turned down a chance to play professional baseball to come to Indiana University where he earned a PhD in organic chemistry with E. Campbell. After two years of postdoctoral experience with Professor Melvin Newman at Ohio State, he joined American Cyanamid Co. at the Central Research Division in Stamford, Conn., in 1964. In 1970, he transferred to the Bound Brook laboratories, and ended his career at the firm’s Agricultural Products Division at Princeton, N.J., where he worked from 1977 until he retired in 1996. He had more than 50 patents and publications in the field of chemiluminescence, animal health, and agricultural products.

In later years, Maulding took up tennis, and was ranked among the top 15 players in his age group in the United States. He won a number of championships in singles and doubles including a doubles championship with his son, Michael, in 1982. He was captain of an eastern USTA team and played in senior matches against Canada. He played in a tournament match for seniors in Palm Springs, Calif., only months before he died. He is survived by his wife, Nancy, his son, Michael, of Anchorage, Alaska, and his sister and mother, of Evansville.

Robert E. Prevette Jr., BS’85, died (continued on page 11)

Alumni news (continued from page 9)

the Western Oregon Service Unit in Salem, Ore., with the Indian Health Service. The Chemawa Indian Health Centers serve about 15,000 patients in the Salem area.

Karen Sue Skurner, BA’90, OD’94, is clinical director at the Faust-Gelvin Eye Center in Marion, Ind.

As reported in the Oct. 13, 1997, C&EN at the September ACS 1997 meeting, Jack H. Stocker, MA’47, was elected to the Council Policy Committee along with three other ACS Council members. Ted J. Logan, BA’53, is a continuing member of this committee.

Homer Smith, postdoc’77, has retired as chair of the chemistry department at Millikin University, and he and Martha have moved to Portsmouth, Va. Smith continues to be active on the Organic Nomenclature Committee of IUPAC.

Clark Memorial Hospital, a Jewish Hospital Health Network Partner, has announced the addition of James C. Strobel, BA’87, MD’91, to its active medical staff. He will also join the practice of Stuart Coleman, M.D., and David Dresner, M.D., as a gastroenterologist. His office will be in New Albany.

In 1996, John E. Tanner, MA’54, retired from the Idaho National Engineering Laboratory, where he had been a nuclear criticality safety analyst for 14 years. He now spends part of his time at a university extension teaching chemistry.

Ralph, PhD’67, and Anne (Hosch) White, PhD’72, have retired from Norwich Pharmaceuticals, in New York state, and moved to Cambridge, Md. (2202 Jenkins Creek Road, MD 21613), which is close to the waters of Chesapeake Bay. They are enjoying the milder climate, and are planning to build a home in that area.

Donald Gregory Wilkerson, BA’78, MBA’80, is president of Kaneka High Tech Materials, a wholly-owned subsidiary of Kaneka Corp., a $3 billion chemical manufacturer.

Bradley R. Wolf, BA’76, MD’80, began a career in surgical hair restoration in 1990 and now specializes in microsurgical hair transplants. Soon he expects to sit for the first board examination given by the newly formed American Board of Hair Restoration Surgery. As an undergraduate double major, he completed more than the minimum of 25 hours required in chemistry.

Julie Yang, MS’52, has retired and moved from Massachusetts to 4025 Villa Vista, Palo Alto, CA 94306.

Randall E. Youngman, PhD’96, after a brief period of postdoctoral work with John Kieffer at the University of Illinois, in July 1997, began working at Corning Inc. as “a senior research scientist in the Characterization Science & Services directorate.” As he wrote recently, he is “building a solid state NMR facility to study the structure of materials related to many of Corning’s products. This laboratory will consist of a 500 MHz wide-bore spectrometer and a variety of NMR probes for the study of glass structure and dynamics in the range of 100 to 1300 °C.” His lab will be located soon in a new facility at Corning, N.Y. Randy’s thesis work at IU was under the guidance of Josef W. Zwanziger, whose focus is on the understanding of the chemistry and physics of disordered solids, especially inorganic and polymeric glasses.

—Harry G. Day and Elizabeth Greene
For all degrees, nondegrees, majors, and campuses

Wherever you are, you can find IU friends, classmates

Whatever happened to Bill West, that guy who made us all laugh in physics lab?

If you've ever wondered about a former IU classmate in the years since "real life" took you on your separate paths, your chances of finding him or her just increased enormously. Alumni can now locate and communicate with each other over the Internet, thanks to Indiana University's Alumni Network.

In February, Indiana University launched the Alumni Network, an online directory that alumni can access via the World Wide Web. The network provides a new and invaluable means for alumni to keep in touch with IU, as well as to renew or make contact with their classmates. "It's going to enable alumni to find other alumni in any given area and to find old friends," says William West, BA'96, executive director for Alumni/Foundation Information Systems.

Alumni can access the entire network of Indiana University's nearly 400,000 alumni by subscription only, but there is no charge for the service. To subscribe, alumni agree to make their public information available to others using the network. Public information includes name, home address, work address, degree and graduation date, spouse name, e-mail address, and home page URL. Phone numbers are not made available. Network data comes from the IUAA alumni records system.

All IU alumni and friends may access the online system to look up their own records and amend or change personal information. However, only subscribers may search the network for other alumni — either individually or in groups — by name, school, degree, graduation date, and current location. If a search finds another subscriber, the entire public record for that individual will be displayed. The only information provided for a non-subscriber will be name, degree, and graduation date. Subscribers may contact each other directly from the Alumni Network via their e-mail or home page links.

The idea for the network was developed by alumni relations offices within several IU schools in response to requests from their alumni. The completed project is the result of a cooperative effort by Indiana University, the IU Alumni Association, and the Alumni/Foundation Information Systems.

The address for the Alumni Network is www.alumnet.indiana.edu. Alumni can also access it via the IUAA web site at www.indiana.edu/ alumnumet.
What’s new with you? Please fill in as much of the following information as you wish. Its purpose, in addition to providing us with your class note, is to keep IU’s alumni records accurate and up to date.

Publication carrying this insert: *AIUC Newsletter (Chemistry)* Date __________________________

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Company address ____________________________________________ Phone __________________

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Spouse name __________________________ Last name while at IU __________________________

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