

Association of Indiana University Chemists



NEWSLETTER

Vol. XXXVII, No.1

College of Arts & Sciences Alumni Association

February 1992

1991—DISTINGUISHED YEAR FOR CHEMISTRY

Paul A. Grieco

The Chemistry Department is indeed fortunate to have been the recipient of many corporate grants during the past year. Dow, Du Pont, Eli Lilly, Inland Steel, and others have generously contributed to the department for the purchase of instructional equipment for the undergraduate laboratory courses in organic chemistry. Du Pont continues to support our Distinguished Lecture Series, and Abbott Laboratories has provided funding for a graduate fellowship and for the support of distinguished lectures in organic chemistry. Continuing graduate fellowship grants have been received from Amoco, Eli Lilly, General Electric, Lubrizol, Procter & Gamble, and Unilever. These funds are crucial to a well-rounded graduate program, and we are pleased to acknowledge the generous support of our corporate friends and colleagues. In addition to the support from Abbott and Du Pont, the Quantum Chemistry Program Exchange (QCPE) has provided funding for distinguished lecturers in computational chemistry.

Five distinguished lectures were presented during this past fall semester. Walter Siebert, Ruprecht-Karls-Universität at Heidelberg, Allen J. Bard, University of Texas, and William J. Lennarz, State University of New York at Stony Brook, presented Du Pont Distinguished Lectures. On Oct. 16, Norman Allinger, University of Georgia, the first lecturer in computational chemistry, presented a seminar titled "Recent Work in Molecular Mechanics and Conformational Analysis." Stephen Hanessian, University of Montreal, presented the first Abbott Lecture titled "The Challenge of Stereochemical Control in Organic Synthesis" on Dec. 11.

I am pleased to announce that Distinguished Professor Ernest R. Davidson

has been chosen as the recipient of the ACS Award for Computers in Chemistry for 1992. The award, sponsored by the Digital Equipment Corp., was established to recognize and encourage the use of computers in the advancement of chemical science. Milos V. Novotny, Rudy Professor of Chemistry, has been selected as the 1992 recipient of the ACS Award in Separations Science and Technology. Rohm and Haas Co. sponsors this award, which was established to recognize outstanding accomplishments in fundamental or applied research directed to separations science and tech-

nology. Both awards will be presented on April 7 at the ACS national meeting in San Francisco.

Following our recently begun tradition, the department will be hosting a complimentary alumni breakfast at the ACS meeting in San Francisco on Tuesday, April 7, 1992. Please watch *Chemical and Engineering News* for the announced time and place, and plan to join us.

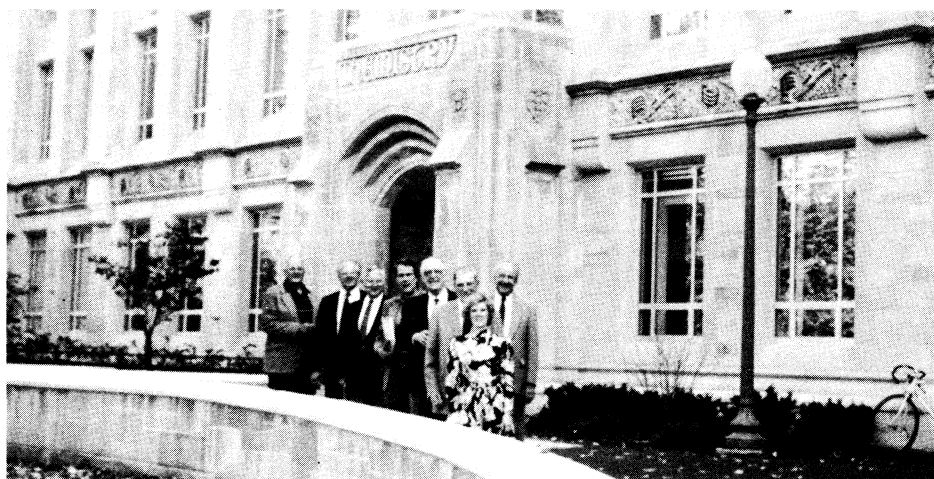
I want to thank all of you who, through your donations, have so generously supported the Department of Chemistry during 1991. I look forward to seeing many of you at the breakfast in April.

BOARD OF OVERSEERS MANAGES FUNDS

The special chemistry funds that have been established in the IU Foundation are under the general supervision of the Board of Overseers. This board consists of the department chair and associate chair, *ex officio*, three active or retired faculty, and three chemistry

alumni. The faculty and alumni members were appointed for terms of two years by the department chair and are renewable.

The board works with and reports to the chair and meets about once a year
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Attending the Chemistry Board of Overseers meeting on Oct. 18 are, from left, William LeSuer, Paul Grieco, Max Marsh, Malcolm Chisholm, E. Campaigne, H.G. Day, Nolan Sommer, and administrative assistant Mary Swarthout.

OVERSEERS

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to review the contributions to and expenditures of the various Chemistry Department endowments.

The present board consists of professors **Malcolm Chisholm** (chair), **E. Campaigne**, and **H.G. Day**, alumni members **William LeSuer**, PhD'48, **Ted Logan**, BA'53, **Max Marsh**, BS'47, and **Nolan Sommer**, PhD'44, and *ex officio* members **Paul Grieco** and **Dennis Peters**. The board met on Oct. 18 (with Ted Logan absent) to review the organizational background and responsibilities of the board, and the record of established endowments and to hear reports on new endowment accounts.

The following recommendations to improve the efficiency of the board were approved:

- The immediate past chair of the Chemistry Department be added to the board as an *ex officio* member.
- The period of appointment of members be changed from two to three years, with an established rotation of one faculty member and one alumni member each year. These appointments may be renewable.
- The requirement of three alumni members be changed to read "three chemistry alumni and/or departmental benefactors."

Special endowments funds through June 1991 are the **Herman T. Briscoe Fund** (established before 1979), **Frank T. Gucker Lectureship** (established 1980), **Frank C. Mathers Lectureship** (1979), **Henry R. Mahler Award** (1985), **William H. Bell Award** (1986), **Verling and Elizabeth Votaw Fund** (1986), **Felix Haurowitz Award** (1986), **Harry G. Day Lectureship** (1988), **Lilly Chemistry Alumni Fund** (1988), **Campaigne Lectureship** (1988), **Marvin Carmack Lectureship** (1989), and the **E.M. Kratz Fellowship** (1989).

New endowment accounts were announced at the meeting. The **Organic Chemistry Fund**, a bequest from the estate of **Lois Metzner** for the organic division, was established in honor of her husband, **Wendell P. Metzner**, BA'33. Metzner, who died in 1978, was an executive of the **Monsanto Chemical Co.** The **Siedle Lectureship** has been established by **Allen Siedle**, PhD'73, in memory of his father. The **Mathers Scholarships** have been established by a bequest from the estate of **Gail M. Bradbury** MA'28. The **William H. Nebergall Memorial Award** has been

endowed by Mrs. **Florence Nebergall**. In the past, this award, given to a graduate student in inorganic chemistry at the annual Awards Banquet, has been funded directly by Mrs. **Nebergall**. With the establishment of the endowment, the annual award is guaranteed. The **Enola Van Valer Trafford Scholarship** has been established by her family in memory of **Enola Trafford**, BA'39, who died in 1990. This undergraduate scholarship is to be given to a resident of Indiana who is a junior or senior with a GPA of 3.0 or higher, with preference given to a female.

The **Friends of Chemistry Fund** assists numerous projects. For example, the Chemistry Department's seminar series budget for the 1990-91 academic year came to just over \$46,000 (excluding the funds associated with the named lectureships). While the department has received a yearly grant of \$10,000 from the **Du Pont Chemical Co.** to support seminars, increasingly large portions of the seminar budget are drawn from the **Friends of Chemistry Fund**. Other annual expenses include the **Honors Banquet**, held each April, in which we honor our best undergraduate and graduate students, and recruiting trips for prospective graduate students. In 1990, we hosted 84 prospective students, of whom 36 subsequently accepted. The cost of this recruiting was in excess of \$25,000, again with a significant portion being drawn from the **Friends of Chemistry**.

Of course, it is the **Friends of Chemistry Fund**, along with the **College of Arts & Sciences Alumni Association**, that pays for these newsletters. If you enjoy getting our alumni newsletter and wish to support the various department activities noted above, we

hope you will make a contribution to that fund or to any of the other funds you wish to support. Please note the funding information elsewhere in this publication.

AIUC BREAKFAST AT ACS MEETS IN NEW YORK

The newly established custom of an AIUC Breakfast at the ACS meeting was continued at New York with a complimentary breakfast on Aug. 27. Although the attendance was better than at the breakfast in Atlantic City in April, many people still did not sign the guest book, thus we have no record of many of you being there. Please do sign in when you come next time. From the conversations there and the comments that were sent to us, we believe you like the custom, and we plan to continue the practice. Further information may be listed elsewhere and will be announced in the program.

Among those who attended this time were **Eric E. Allen**, PhD'88, **David Chandler**, PhD'80, **Joseph D'Antunono**, PhD'89, **Linneaus Dorman**, PhD'61, **Jack Gill**, PhD'63, **Frank Guthrie**, PhD'62, **Jim Johansen**, **Guenter Kuehl**, Post-PhD'57-'59, **Ted Logan**, BA'53, **Ravi Nargund**, PhD'88, **Mark Self**, A.R. **Siedle**, PhD'73, **Nolan Sommer**, PhD'44, **Tim Speer**, **Jack Stocker**, MA'47, **Viki Veenker**, BS'85, **Karen (Bush) Watts**, PhD'70, **Richard Wells**, PhD'62, and **Jack**, PhD'55, and **Jean Young**. Faculty were represented by **Ernest Davidson**, **Joe Gajewski**, **Paul Grieco**, **Milos Novotny**, **Jack Shiner**, and **Vic Viola**.

BREAKFAST IN SAN FRANCISCO

If you plan to attend the complimentary breakfast in San Francisco, please make your reservation with Professor Grieco by March 20. You may write or phone (812/855-6239) your reservation. Please also send us any news about yourself or other AIUC members.

This newsletter is supported, in part, by the **Friends of Chemistry Fund**. If you want to help, please make your check payable to the **Indiana University Foundation**, marked for

Friends of Chemistry, and send it to Professor Grieco. Also, please ask your personnel office for a matching gift form. This could double or triple your contribution. Thanks for your help.

Contributions to any of the other funds mentioned in the **Board of Overseers** story (pp. 1-2) may be made in the same way, merely by indicating on your check, made out to the **Indiana University Foundation**, which fund you are supporting.

DEPARTMENTAL NEWS

Chemistry as Art

In September and October, the IU Fine Arts Gallery and the Chemistry Department hosted the exhibition "Chemistry Imagined." This was a collaboration between collage artist Vivian Torrence and Cornell University chemist Roald Hoffmann. This was also an occasion to display a number of works by Indiana artists on interpretations of scientific themes (e.g., periodicity, inert gases, metamorphosis, limestone, and pollution). Each work in the Hoffmann/Torrence exhibit comprised a collage composed of tinted reproductions from old chemistry textbooks, or even from modern publications, accompanied by a short essay by Roald Hoffmann elaborating the topic of the collage. Topics included the elemental ("Earth," "Fire") and the exotic ("Bifadienolides," "Orbitals," "Double Carbonylation"). Both Torrence and Hoffmann spoke at the opening of the exhibition.

Inorganic Alumni Mini-Symposium and Fall Picnic

The inorganic group held the second Inorganic Alumni Mini-Symposium on Sept. 27 in room C122 from 4 to 7 p.m. The program included the following speakers and topics:

- **John C. Huffman**, PhD'74, Molecular Structure Center, Indiana University, Bloomington, "Service Crystallography—Where We've Been and Where We're Going";
- **A.P. Sattelberger**, PhD'75, Los Alamos National Laboratory, Los Alamos, N.M., "Accelerator-Based Transmutation of Nuclear Waste: An Overview";
- **Mark Green**, PhD'82, Purdue University, West Lafayette, "Copper-62 Radiopharmaceuticals for Imaging the Brain and Heart by Positron Emission Tomography (PET)";
- **Nancy Marchant**, PhD'86, B.F. Goodrich, Brecksville, Ohio, "Telene Liquid Resins: Reaction Injection Molding—Ring Opening Metathesis Polymerization (RIM-ROMP). An Application of Metal Oxides and Alkoxides";
- **Bryan W. Eichhorn**, PhD'87, University of Maryland, College Park, Md.,

"Design of New Early Transition Metal Oxide and Sulfide Superconductors"; and

- **John Bashkin**, PhD'88, Johns Hopkins University, Baltimore, Md., "Structural Studies of Nucleosome Core Particles."

The talks were well received, and it was striking how chemical research had diverged from the earlier work of many of the speakers. On Sept. 28, the inorganic picnic was held at Hardin Ridge, and once again the weather was great. A number of people returned for the occasion, including **Clarice** and **Bill Mosier**, **Ian** and **Arlene Rothwell**, Postdoc '79-'81, and family, **April Balog**, Grad Student '90, and Monday's inorganic speaker, **Richard Eisenberg**, professor of inorganic chemistry and chair of the Department of Chemistry at Rochester University, who arrived by yacht courtesy of Professor **Cliff Kubiak** (Purdue University) and his wife, **Pam**.

Eli Lilly Gift Recognition Seminar

Eli Lilly and Co. has recently announced a contribution of \$250,000 to the department for the purchase of instructional equipment for the undergraduate laboratory courses in organic chemistry. On Oct. 2, at a recognition seminar held in the Harry G. Day Lecture Hall, **Thomas L. Emmick**, vice president of the Lilly Research Laboratories presented the gift.

As part of the proceedings, **Richard D. Dimarchi**, PhD'79, (with Professor **Frank Gurd**), and **Homer L. Pearce**, both of the Lilly Research Laboratories, gave seminars about progress in research dealing with diabetes and cancer. Faculty, students, and guests were served refreshments, courtesy of the Indiana University Foundation, in the chemistry courtyard after the ceremonies.

This monetary contribution brings to just over \$1 million the total funds that have been acquired in the past two years by the department for modernization of undergraduate instructional programs in general and organic chemistry. Major projects still not funded are the development of a new laboratory program in bioanalytical chemistry and improvements in the in-

strumentation for laboratory instruction in analytical chemistry.

National Chemistry Week Open House

On Nov. 9, the department held an open house, sponsored by the Southern Indiana Section of the ACS. In the morning, visitors were treated to a reception, followed by tours of the building, including the glass shop and molecular structure center. Posters on chemistry in the public interest were displayed and judged at a poster contest. The morning's activities were concluded with a series of short lectures, presented by Professor **Gary Hieftje**, speaking on "New Frontiers in Chemical Measurement"; Professor **Richard Sorensen**, of the History and Philosophy of Science Department, on "Chemistry and the Scientific Revolution"; and Professor **William Roush**, on "Organic Chemistry: A Chemist's Perspective."

Following lunch, the poster contest winners awards were presented. Then Professors **Dennis Peters** and **Steven Russo** presented their highly acclaimed "Wonders of Chemistry" show. The open house was concluded by the awarding of door prizes.

SPRING 1992 DISTINGUISHED LECTURES

Abbott Distinguished Lecture in Organic Chemistry:

Feb. 12, **Larry E. Overman**, University of California, Irvine, "New Strategies for Ring Formation"

Du Pont Distinguished Lectures:
March 4, **Gilbert Stork**, Columbia University, "Progress and Problems in Organic Synthesis"

April 1, **C. Austen Angell**, Arizona State University, "Liquids and Crystals at Large Negative Pressures: Especially Water"

Marvin Carmack Lecture in Organic Chemistry:

May 13, **Samuel Danishefsky**, Yale University, "Recent Developments in Organic Chemistry"

FACULTY NEWS

Ken Caulton presented lectures at both national ACS meetings and then retired as program chair for all inorganic papers at national meetings. Time recovered there will go into work on an IU commission to evaluate incentive and reward for teaching. Caulton was also elected to a three-year term on the College of Arts and Sciences Policy Committee, an advisory body to the dean.

He has presented invited lectures at Western Illinois University; Washington University; the Universities of Chicago, Illinois, Wisconsin, Hawaii, and Oslo (Norway); ACS and Materials Research Society meetings; and a lecture tour of Japan.

Caulton also has recently hosted visiting faculty Grigori Soloveichik (Moscow, U.S.S.R.), Odile Eisenstein (Orsay, France), and Claudio Bianchini (Flo-



TWO NEW FACULTY members, Romualdo de Souza (nuclear chemistry), left, and Mark Hollingsworth (organic chemistry), joined the Department of Chemistry in the fall.

rence, Italy), as well as postdocs from France, Germany, and Israel.

Three professors will be on sabbatical leave this spring. Charles Parmenter expects to spend the spring semester of '92

at Cambridge University, in the U.K.

John Richardson will spend part of his leave in France, at the Institute de Microbiologie, University of Paris-Sud, Orsay.

David Williams will spend time in Europe and Japan, attending conferences and visiting laboratories.

Faculty Identification: How many of you caught the transposition of pictures in the last Newsletter (36, #2)? The picture for Richard Smalley's Gucker Lecture was switched with the picture of Ron Breslow, the Campaigne lecturer, but the captions remained in the correct location. This caused Gary Hieftje to look like Joe Gajewski, while Paul Grieco turned into James Reilly.

Curt Monnig, PhD '89, did notice that Dr. Hieftje had grown taller and had more hair.

GRADUATE NEWS

Pat Stapleton

PhD recipients with area, research professor, and first position accepted for the 1990-91 academic year include the following:

Daniel Alvarez (inorganic, K. G. Caulton), Beckman Institute, California Institute of Technology, Pasadena, Calif., postdoc.

Joan E. Bartelt (analytical, R. M. Wightman), E. I. du Pont de Nemours Co., Newark, Del., research scientist.

John E. Baur (analytical, R. M. Wightman), Miles Inc., Clayton, N.C., research scientist.

John W. Benbow (organic, D. R. Williams), Yale University, New Haven, Conn., postdoc.

Stephen M. Brown (analytical, K. L. Busch), Georgia Institute of Technology, Atlanta, Ga., postdoc.

Kevin R. Brushwyler (analytical, G. M. Hieftje), Leco Corp., St. Joseph, Mich., project leader.

David M. Chambers (analytical, G. M. Hieftje), Shell Development Co., Houston, Tex., scientist.

Mark A. Dearth (analytical, R. A. Hites), Ford Motor Co., Dearborn, Mich., senior scientist.

Robert S. Disselkamp (physical, G.

E. Ewing), Colorado State University, Fort Collins, Co., postdoc.

Jocelyn C. Dunphy (analytical, K.L. Busch), Procter and Gamble, Cincinnati, research scientist.

Micheal D. Gaul (organic, P.A. Grieco), University of Rochester, Rochester, N.Y., postdoc.

Mark E. Heiny (biochemistry, F.W. Putnam), IU Medical School, Indianapolis, student.

David J. Leszczyszyn (biochemistry, R.M. Wightman/J. Near), IU Medical School, Indianapolis, student.

Eduardo M. Libby (inorganic, G. Christou), University of Virginia, Charlottesville, Va., postdoc.

Patrick D. Lowder (organic, D.R. Williams), E. I. du Pont de Nemours Co., Newark, Del., research scientist.

Ce Ma (physical, R.A. Bonham), University of Michigan, Ann Arbor, postdoc.

James D. Martin (inorganic, M.H. Chisholm), Enric Canadell, Paris, France, postdoc.

Arturo Perez Medrano (organic, P.A. Grieco), Syntex S.A. de C.V., Mexico, head of Group I.

Barbara S. Ross (analytical, G.M. Hieftje), Ross Labs, Columbus, Ohio, chemist.

Ann W. Schake (inorganic, G. Christou), Los Alamos National Labs, Los Alamos, N.M., postdoc.

Daniel T. Stoelting (organic, V.J. Shiner Jr.), University of Toledo, Toledo, Ohio, postdoc.

Timothy L. Stuk (organic, P.A. Grieco), Abbott Labs, North Chicago, Ill., development research chemist.

Kenneth J. Tupper (physical, J.J. Gajewski), Tech Sales and Marketing, Indianapolis.

Lori S. VanDerSluys (inorganic, K.G. Caulton), University of Montana, Missoula, instructor.

Sherry J. Yennello (physical, V.E. Viola), Michigan State University, East Lansing, postdoc.

Chu Zhu (analytical, G.M. Hieftje), Richardson-Vicks Inc., Shelton, Conn., analytical chemist.

Lanling Zou (biochemistry, J.P. Richardson), University of Minnesota School of Medicine, St. Paul, postdoc.

Recipients of master's degrees are:

Christopher H. Hoham (J.M. Hayes), **Peggy J. McCann** (J.M. Stryker), **Steven W. Pauls** (J.P. Reilly), **Anne M. Starrett** (R.A. Hites), and **Fred G. Todd** (C.S. Parmenter).

UNDERGRADUATE NEWS

This fall Dennis G. Peters, Briscoe Professor of Chemistry and associate chair, assumed the duties of coordinator of undergraduate studies. Holly Willett continues as academic counselor and manager of the Chemistry Placement Office, and Janice Bishop as office secretary.

In 1990-91, we graduated 117 students (132 graduated in the 1989-90 school year). Of these students, 22 received BS degrees in chemistry, 31 received BS degrees in biochemistry, and 64 received BA degrees in chemistry. Approximately one-third of our graduating seniors went to medical or dental school, a third to graduate school in chemistry or related fields, and a third to industrial positions.

Forty-one students participated in our Chemistry Honors Program, and 53 students engaged in undergraduate research.

This fall, 37 companies recruited at the Chemistry Placement Office. These companies conducted a total of 524 interviews. Participating companies included Abbott Laboratories, American Cyanamid Co., Baxter Healthcare Corp., Boehringer Mannheim Corp., Bristol Myers-Squibb, Dow Chemical Co., DowElanco, Eli Lilly & Co., General Electric Co., Glaxo Inc., Great Lakes Chemical Co., ICI Pharmaceuticals Group, Kraft General Foods Inc., Lubrizol, Marion Merrell Dow, Merck Sharp & Dohme, Monsanto Agricultural Co., Nalco

Chemical Co., National Starch & Chemical Co., Occidental Chemical Corp., Parke-Davis/Warner Lamber, Pfizer Inc., Procter & Gamble Co., Radian, Reilly Industries Inc., Rhone Poulenc-Rorer, Shell Development Co., Sigma/Aldrich, SmithKline Beecham, Southern Research Institute, Stepan, Sterling Research Group, Syntex, Unilever Research & Development Inc., Union Carbide, Upjohn, and Vista. Thirty-five of the companies recruited PhD and postdoctoral candidates; 13 recruited MS candidates; and 23 recruited BS chemistry and biochemistry candidates.

A total of 38 graduate students and 24 undergraduates used the placement service.

STAFF NEWS

Loyd Hudson

Several staff members reached significant anniversaries during the past few months. Kenneth Bastin, mechanical instrument services, and Richard Landgrebe, computer services, both achieved 20 years with the department. Jackie Drake, chemistry scientific stores, Cheryl Johnson, who now works for Professors Jack Crandall and William Roush, and Donald Garvin, who started with the storeroom and later switched to the glass shop, have reached their 10th milestones.

The period since the last Chemistry

Newsletter was marked by some changes in personnel. Drew Packman left the machine shop in May; Starla Stavely, secretary to Professor Milos Novotny, left the area in July; and Ava Neal, secretary for Professors Crandall, Joseph Gajewski, and Lawrence Montgomery, resigned in September. Novotny's new secretary is Anne Powers-Beck. Jeff Tate, who had been with building services, joined the mechanical instrument services on Oct. 1; and Kari Blomberg joined the staff as secretary to Professors David Daleke, Alexandra Newton, and John Richardson, in mid-October.

ALUMNI NEWS

Charles A. Baker, MA'48, served as chair-elect of the Indiana Section of the ACS in 1991.

Talmage R. Bosin, PhD'67, is acting director of the long-standing Medical Sciences Program at IUB, a special feature of the School of Medicine. Each year 24 beginning medical students are accepted into the program here. After two years in largely preclinical subjects, they are transferred to the clinical program at the Medical School in Indianapolis. Eighteen full-time faculty members of the School of Medicine and approximately 60 of the staff doctors at the Bloomington

Hospital participate in teaching the 48 medical students. Bosin received his degree in medicinal organic chemistry under E. Campaigne.

R. Jack Cassingham, BA'54, DDS'58, MSD'70, is president-elect of the Louisiana Dental Association. He is professor of periodontology at the Louisiana State University School of Dentistry.

Michael Chetcuti, postdoctoral with Chisholm '82-'85, has become associate professor with tenure in the Department of Chemistry at Notre Dame University.

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NECROLOGY

Since the last newsletter we have learned of the following deaths:

Harry W. Afflebach, BA'37, MA'38, May 1, 1991

George O. Carrington, BA'42, MA'53, Oct. 5, 1990

Robert W. Currie, BA'30, MD'35, May 22, 1991

Carl A. Freed, BA'40, MD'42, June 20, 1991

Marvin E. Glidewell, BA'51, May 7, 1991

Omer L. Haimbaugh, BA'35, March 19, 1991

Dorothy Arndt Inglis, BA'24, Feb. 20, 1991

Jay M. King, BA'42, MD'49, April 14, 1991

Charles R. Lepper, BS'53, July 29, 1991

Ralph W. Phillips, BA'40, MS'55, May 17, 1991

Enola Van Valer Trafford, BA'39, Sept., 1990

Byron M. Vanderbilt, BA'29, June 19, 1991

John David Ueber, BA'51, April 18, 1991

Mitchel L. Weinstock, BA'49, August 1990

Please note . . .

The IUAA has moved from the IMU to Fountain Square, on the south side of the Courthouse Square. The new address is IU Alumni Association, Fountain Square, Suite 219, P.O. Box 4822, Bloomington, IN 47402-4822. Phone 812/855-4822.

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Jerry A. Chendwerth, MAT'68, recently became assistant corporate director of health and safety in ATEC Associates Inc., Indianapolis.

John F. Christman, MA'46, in connection with his tour of ACS local sections, was the speaker before the Southern Indiana Section on Nov. 19, speaking on "Serendipity—The Luck in Scientific Discovery." He is professor emeritus of chemistry at Loyola University in New Orleans.

Chester Davis, BS'44, attended the 50th anniversary reunion of his high school (Newport, Ky.) class of 1941 this year. Owing to his loyalty and generosity, not long ago he gave NHS a series of valuable scholarships. It is reported that the anniversary celebrants gave him very generous applause. Of course, he has remembered IU and a few other institutions of special interest to him. Davis lives in Springfield, Ohio, and he comes to the IU campus every few months.

Allen G. Debus, '50-'52, worked in the F.T. Gucker group and eventually received his PhD at Harvard in the history of science. He is now the Morris Fishbein Professor of the History of Science and Medicine at the University of Chicago.

Richard D. DiMarchi, PhD'79, is now director of diabetes research at Lilly Research Laboratories. On Oct. 2, he spoke on "Diabetes Research: Insulin Challenges." The seminar followed the recognition of Eli Lilly's gift of \$250,000 to the department for the upgrading of equipment in the undergraduate laboratories. DiMarchi was one of F.R. Gurd's students.

William O. Foye, PhD'48, is to receive the prestigious Rho Chi Lecture Award in 1992. The announcement states that the presentation is to "a distinguished scholar from the fields of arts, letters, or sciences who has made a significant contribution to the health professions." In addition to his long-standing *Principles of Medicinal Chemistry*, he is editing *Cancer Chemotherapeutic Agents* for the ACS. For diversion, his new book, *Trout Waters*, is about ready for production. In 1991, he lectured at the International Congress of New Drug Development in Seoul, Korea.

Minas Georgiadis, PhD'63, head of the chemical laboratories of the Agricultural University of Athens and a visiting professor at Wayne State University, gave a seminar in the department in Septem-

ber. He spoke on "Oxidative Rearrangement of Furylcarbinols and Aminocyclitol Antibiotics." He was accompanied to IU by his wife, Vasso.

Charles J. Guare, PhD'53, has published, in 1990, a single, 62-page manual, "A Guide to the Arithmetic of Engineering and Science." It can be useful for many average chemists in handling "uncertainty, precision, error, averaging, rounding, graphing." Even superior chemists will find it interesting and useful on some occasions. The booklet deserves a major publisher. Guare's address is 8 Anita Drive, Scotia, NY 12302. He is retired from General Electric and in his spare time he helps some in teaching at his first alma mater, Union College, Schenectady, N.Y.

Frank A. Guthrie, PhD'62, was a member of the Steering Committee for the ACS Joint Central-Great Lakes Regional meeting, held in Indianapolis in 1991.

Jules V. Hallum, Post PhD'51-'52, is director of the new Office of Scientific Integrity at the National Institutes of Health. The office was established owing to the heightened interest in charges of scientific misconduct and fraud. As quoted in a special article in *The New York Times* in March 1991, Hallum said: "This is not a paper tiger office. None of us is on a witch hunt, but we are taking this job seriously. We, as scientists, have to do this job of examining other scientists ourselves or there are others out there who will do it for us." At IU, Hallum worked in Campaigne's group.

Joseph Heppert, postdoctoral with Chisholm '84-'86, has become associate professor of chemistry with tenure at the University of Kansas.

Edward G. Howard Jr., PhD'48, was one of 10 Du Pont scientists and engineers selected in 1991 to receive the prestigious Lavoisier Medal for Technical Achievement. The purpose of the medal "is not only to highlight the great technical accomplishments of these individuals, but also to present role models for current employees." Howard was named a Du Pont Fellow in 1976. He holds more than 100 U.S. and foreign patents for inventions at Du Pont in diverse fields. In recent work, he has made important advances in bioglass-polyethylene composites that bond to living tissue. A development has been longer-lasting prosthetic hip sockets. That is surely a contribution to humanity.

Floyd L. James, BA'31, PhD'37, retired

from Miami University in 1981, but he continued to teach one course until 1989.

Sanford H. Lawrence, BA'41, MD'44, is past retirement age, but he continues on the medical school faculty at UCLA, is a consultant for the government in cardiology, directs a few graduate students, lectures some in the Faculte de Medicine in Paris, and gives some attention to various colleges in England, France, Belgium, Sweden, U.S.S.R., India, and Japan. He travels whenever possible and is an avid collector of art. His primary residence is in Hollywood, but he maintains a secondary home in Paris.

David Lustig, BS'86, accepted a research appointment with Syntex Pharmaceuticals, following completion of his doctoral degree in chemistry at the University of Michigan in August 1991.

Dana Mayo, PhD'57, continues to make significant contributions in the development of microscale systems for chemical instruction and training. He and his group are publishing a book on the system this year. However, the signal event has been his appointment as Pickard Research Professor of Chemistry at Bowdoin, where he has spent virtually all his professional life. It relieves him of all teaching and committee responsibilities. He has "old legs" problems, but he will keep his summer programs and continue to work in his office and special laboratory.

William G. Mays, BA'70, MBA'73, continues to attract much favorable attention for his remarkable success in his Mays Chemical Co. *The Indianapolis Star* (Oct. 14, 1991) featured an impressive profile of "just plain Bill." His Indianapolis-based company was founded in 1980. The sales in 1990 make it "one of the state's most successful minority-owned businesses." Also, the feature asserts that his "influence now stretches from the city's most powerful corporate boardrooms to the statehouse. And beyond." As a member of the IUF board, Mays was the leader of the Foundation's annual giving campaign for 1991.

Astley McLaughlin, PhD'81, is in charge of the Mosquito Research and Control unit in the Cayman Island Government. He is attempting to develop a good laboratory on a very limited budget. Some gifts of usable but unwanted laboratory equipment would be welcomed. In the laboratory they will examine native plants for insect control agents. E. Campaigne will gladly convey informa-

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tion and suggestions to McLaughlin.

Roy L. Mosemiller, BS'41, MA'42, was a chemist at ARCO until 1971. Afterwards, he was with the Tennessee State Department of Labor until he retired in 1986. He resides in Nashville. This year, he returned to campus to join with his class in celebrating its 50th anniversary.

Edward S. Neiss, PhD'65, has joined Hybridon Inc. as president and chief operating officer. The biopharmaceutical company plans substantial expansion in its research staff and therapeutics development program. Before joining Hybridon, Neiss was president and chief operating officer of Chemex Pharmaceuticals Inc. At IU his mentor was E. Campaigne. His medical degree is from the University of Pennsylvania, where he also completed a residency program in clinical dermatology.

Richard W. Neithamer, PhD'57, retired in 1991 and is now professor emeritus of chemistry at Eckard College.

Sydney J. Nix Jr., PhD'51, and his wife, Florence, made a nostalgic trip to the campus and surrounding community in connection with the alumni weekend. He has had a successful career with Du Pont in textile fibers in Waynesboro, Pa. Much of this time was spent on acrylonitrile polymers, their processing into fibers, and in the use of the fibers, primarily in wearing apparel. He retired in 1984.

George Pauli, PhD'68, was recently appointed novel ingredients and policy development branch chief at the Federal Food and Drug Administration.

Eduardo M. A. Peixoto, PhD'68, serves as editor of the *Journal of the Brazilian Chemical Society*.

Herbert H. Reller, PhD'52, had a rewarding and diversified 34 years in research at P&G before he retired four years ago. A significant part of his work dealt with the digestion and absorption of various chain length fatty acids and with various other fat-related compounds, including studies on the metabolic fate of many. Later, the current Olestra was largely based on this work. He devoted much time to basic research in dermatology. Later, he focused on inflammation problems. While he and Bettye occasionally roll around the country in their comfortable motor home, we presume that he thinks about the applications that continue to come from those 34 years.

Melodye Smith Rooney, BS'83, is a mem-

ber of the organic geochemistry group of the Mobil Research and Development Corp., Dallas, Texas. In October, she was a recruiter on campus for the laboratory, interviewing students in geochemistry. Her research focuses on carbon isotope geochemistry. Her PhD was received at U. Wisconsin.

J. S. Sandhu, Post PhD'80-'81, writes that his son, Maupreet, who was only one month old when Sandhu came to Bloomington, is now able to read the AIUC newsletter. Sandhu is head of the Division of Drugs and Pharmaceutical Chemistry at the Regional Research Laboratories of CSIR at Jorhat, Assam, India.

Jeffrey Santrock, PhD'85, in 1990 received the Investigator of the Year Award from the Society of Toxicology for the work he did under the guidance of J. Hayes. He is with General Motors Research Laboratories.

Mary T. (Taylor) Short, BA'64, MAT'69, teaches chemistry at Clay High School in South Bend. In 1990, she received a Teacher Technology Fellowship from the Indiana Department of Education, for which she is writing computer programs for use in grading work in high school chemistry laboratories. Her budget is about \$350 for consumable supplies for five classes.

Darrell N. Simone, BA'76, is staff anesthesiologist at the Metrohealth Medical Center and a senior instructor in anesthesiology at Case Western Reserve University School of Medicine.

Kevin Speer, BS'81, is finishing "a year in New York at the Hospital for Special Surgery doing a sports medicine fellowship." He adds, "One of the perks will be that I will be taking care of the New York Giants football team and St. John's University sports teams." While at Johns Hopkins University School of Medicine, he married an IU coed, Marcy Carlson. He writes "We finished my medical school training at Hopkins in May of 1985." Still characteristic of Speer and other IU chemistry majors, he gives credit where it is due. After Hopkins, he spent five years in the orthopaedic surgery residency program at Duke University Medical Center. From New York, the Speers will return to Duke, where he will be on the faculty and continue in the expansion of their sports medicine program. Also, he will take care of the Duke University sports teams.

Fredrick M. Stein, PhD'71, this sum-

mer began his new position as director of the Center for Science, Mathematics, and Technology Education and as professor of chemistry at Colorado State University in Fort Collins. During the past three-and-a-half years, he has been director of the Philadelphia Renaissance in Science and Mathematics (PRISM). This is a viable and well-funded organization commonly referred to as the Philadelphia Partnership for Education. In the new Center, there will be further opportunity for educational reform in a university setting. At IU, Stein's work was directed by C.S. Parmenter.

Jack H. Stocker, MA'47, is completing the three-year sequence of chair-elect, chair, and immediate past-chair ('89-'91) of the ACS Division of History of Chemistry. He is now professor emeritus of chemistry at the University of New Orleans, but he continues as an ACS tour speaker.

David Lee Wagner, BA'77, completed his residency training in psychiatry at IU in 1985, where he is now assistant professor of psychiatry.

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Association of Indiana University Chemists Newsletter

is published annually for graduates of the IU Department of Chemistry by the Department of Chemistry and the IU Alumni Association, in cooperation with the College of Arts and Sciences Alumni Association, to encourage alumni interest in and support for Indiana University.

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ALUMNI NEWS

(continued from page 7)

M. C. Wani, PhD'62, and associates at the Research Triangle Institute, have been in the limelight recently concerning their pioneering work on the anticancer substance Taxol. In 1963, they were the first to isolate a crude Taxol concentrate from yew bark and wood samples. Initial screening tests showed the extract to be a potential anticancer agent in a wide range of rodent cancers. As he wrote recently, "When we published this work in 1971 (JACS 93, 2325, 1971), we did not have the slightest idea that two decades later Taxol would generate so much interest both amongst scientists and the general public." It was featured in *C&EN* 2 September 1991 in a seven-page article. Other features on Taxol appeared in 1991 in the *Wall Street Journal*, *Time*, *Business Week*, *Omni*, *Environment*, *Medical Tribune*, *Insight*, and *Chemical Engineering Progress*. In the meantime, Taxol has attracted the attention of many scientists. Although much progress has been made chemically an effective total synthesis has not been achieved. Wani's mentor at IU was E. Campaigne.



M.C. WANI

Another IU graduate, *Saul A. Schepartz*, BA'52, of the National Cancer Institute's Developmental Therapeutics Program, is also an active participant in the effort to find ways to increase the yields of Taxol.

Albert C. Yates, PhD'64, was inaugurated in April as the 12th president of Colorado State University and second

chancellor of the Colorado State University system.

Richard Yodice, PhD'80, returned to Bloomington in October on a recruiting trip for Lubrizol, where he is now head of a specialty chemicals group. This is the first time he has been back on campus and was much impressed by our new facilities.

Jay A. Young, BS'39, received the Chemical Health and Safety Award (CHAS) for 1991 at the Division CHAS dinner during the ACS Fall Meeting. Two years ago he received the Division CHAS Tillmans-Skolnick Award. He has received other deserved recognitions in safety and for excellence in the teaching of chemistry. He is now a consultant in the area of chemical health and safety.

ATTENTION CHEMISTRY ALUMNI: Each year we are limited in the amount of space devoted to news of alumni, thus we cannot always use every item received. We regret this and do appreciate receiving your updates and add all the information we receive to the archival files. Please continue sending us your news.

VISITORS TO THE ALUMNI ARCHIVES

Among those who stopped by to visit us when they were on campus since the last *Newsletter* were *John Christman*, MA'46, of New Orleans; *Stephen Eck*, MS'70, of Iowa; *Minos Georgiadis*, PhD'64, of Athens; *Jack Gill*, PhD'63, of Palo Alto, Calif.; *Charles H. H. Griffith*, MA'54, of Lexington, Ky.; *Mrs. Kathryn (Edward G., PhD'50) High*, of Nashville; *Noel Jacobsen*, Post PhD'62-'63, '71-'72,

of Australia; *W. LeSuer*, PhD'48, of Cleveland; *V. L. (Bud) Miller*, MA'38, of Venice, Fla.; *Sydney Nix*, PhD'50, of Waynesboro, Va.; *Ed Schumann*, BS'43, of Kalamazoo; *Nolan Sommer*, PhD'44, of New Jersey; *Meredith Sparks*, MA'28, of Coral Gables, Fla.; *John*, MA'39, and *Dorothy Nordman*, MA'38, *Wilson*, of Marco Island, Fla.; and *Richard Yodice*, PhD'80, of Mentor, Ohio.

NOTICE TO CHEMISTRY ALUMNI: The U.S. Department of Education has awarded the Department of Chemistry a three-year National Needs Program grant beginning with the 1991 fall academic term. This grant will provide fellowships to students who have traditionally been under-represented in the field of chemistry, and who have financial need such that they ordinarily would not pursue advanced work in chemistry. Women, minorities, and students who are returning to graduate work after working in industry are encouraged to apply. If you know of a potential applicant, please have him or her call 1-800/227-2158.

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