



### REVIEW, PREVIEW FROM THE CHAIR

*Paul A. Grieco*

We had an exciting fall semester to start the 1990-91 academic year. On Oct. 19, our recently completed lecture hall was named the Harry G. Day Lecture Hall, honoring Professor Emeritus Harry G. Day for his more than 50 years of service to the department and the University. During the ceremony, Day was presented with the President's Medal for Excellence, awarded in special recognition of distinction in fields of endeavor that reflect the values, goals, and mission of Indiana University.

Another special occasion was celebrated in October. On Oct. 26, a plaque was unveiled marking a generous gift from the Dow Chemical Co. Foundation to establish the Chemistry Resources Center for freshmen. In addition to using state-of-the-art computers for assisting undergraduate students in their classroom and laboratory learning experiences, it is hoped that, in the near future, the center will have a computer link between high school teachers in the state of Indiana and faculty here in the department. Dow's gift comes at a critical time in view of the department's comprehensive plan to modernize every aspect of the instructional laboratory program for undergraduates.

After 35 years of service to the department, Professor Edward Bair retired this past summer. However, he will continue to do research in his laboratory. In November, we celebrated his retirement by having a banquet in the Coronation Room and by planting a red oak tree in his honor. The tree is located near the north-east entrance of the Chemistry Building.

On Mar. 4, Ronald Breslow, Samuel Latham Mitchell Professor of Chemistry at Columbia University, will present the Campaigne Lecture on "The Chelate Effect in Binding, Catalysis, and Chemotherapy." Breslow's major research interest in recent years has been on the

synthesis and study of molecules that imitate enzymatic reactions. He is a member of the National Academy of Sciences and is the recipient of numerous awards.

On Mar. 28, Richard Smalley, Norman Hackerman Professor of Chemistry at Rice University, will present the Gucker Lecture. Smalley, who is a member of the National Academy of Sciences, specializes in supersonic beam spectroscopy and is particularly interested in cluster molecule research. He has attracted attention to the large carbon molecules, such as C<sub>60</sub> and C<sub>70</sub>.

Our faculty continue to be recognized both nationally and internationally with many prestigious awards. Malcolm H. Chisholm has been elected Fellow of the Royal Society, London. The Royal Society is one of the oldest learned societies, dating back to the middle of the 17th century. The first meeting of the society to be recorded in the Journal Book was in 1660, and the signatures of those present included Robert Boyle and Christopher Wren. Since that time, all members have signed the book. Virtually all the signatures of those who have been most prominent in the de-

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### CHEMISTRY AUDITORIUM NAMED FOR HARRY DAY

Harry G. Day, professor emeritus of chemistry, was recognized by the University on Oct. 19, with the naming of the recently remodeled Chemistry Building Auditorium in his honor. The naming ceremony was followed by a

tour of the building, the second Harry G. Day Lecture, and a dinner for 128 in the Tudor Room of the IMU, where a slide show about the department was presented by M. Carmack.

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*Professor Emeritus Harry Day receives the President's Medal during ceremonies naming the Chemistry Building in his honor, IU President Thomas Ehrlich, left, and Chair Paul Grieco congratulate Day.*

Jerry Mitchell

# E. J. COREY GIVES MARVIN CARMACK LECTURE

Elias James Corey, 1990 Nobel Laureate in Chemistry, presented the first Carmack Lecture in the department on April 13, 1990. The Marvin Carmack Lectureship in Chemistry was established in 1989 from donations by students, friends, and colleagues of the chemistry professor.

Corey spoke on "New Synthetic Methodology for Enantioselective Synthesis" in the new Harry G. Day Auditorium. A reception followed the lecture.

Corey's research interests have been in the areas of structure and synthesis of natural products, theoretical organic chemistry, organometallic chemistry and metal complexes, enzyme chemistry, asymmetric synthesis, and computer assisted retrosynthetic analysis. He has served on the boards of

the Alfred P. Sloan Foundation, the Robert A. Welch Foundation, and on many editorial boards of organic chemical

journals. He has received the ACS Award in Pure Chemistry (1960), the ACS Fritzsche Award (1967), the ACS Award for Creative Work in Synthetic Organic Chemistry (1971), the Arthur C. Cope Award (1976), Tetrahedron Prize for Creativity in Organic Chemistry (1983), the Wolf Prize in Chemistry (1986), National Medal of Science (1988), and the Japan Prize in Science (1989). He is a member of the American Academy of Arts and Sciences (1960) and the National Academy of Science (1966). Corey is Sheldon Emery Professor of Chemistry at Harvard University.

The lecture and reception were attended by several of Carmack's former students, including Robert Reed, MS'64; Mohammed Behforouz, PhD'65; and Royce Rasmussen, Post PhD'62-'63.



*Carmack and Corey*

## FROM THE CHAIR

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velopment of mathematics and the natural sciences are found in the book.

The ACS Award for Creative Advances in Environmental Science and Technology for 1991 will go to **Ronald A. Hites**. Hites is widely known for his use of gas chromatographic mass spectrometry to analyze trace levels of environmental pollutants. He was among the first to apply computerized GC/MS to environmental problems, focusing attention on organic pollutants. The techniques he has developed have made him an international leader in this field. Ron is past president of the American Society for Mass Spectrometry and past chairman of the Gordon Research Conference on Environmental Services.

Distinguished Professorships are given to recognize faculty whose academic work has brought recognition to the University. This year, two of our faculty were honored in this way. **John M. Hayes**, professor of chemistry and geochemistry, is internationally known for his work in isotopic biogeochemistry. **Victor E. Viola Jr.** is a leading figure in nuclear chemistry and is recognized worldwide as an expert in galactic evolution and for research on heavy-ion reactions. He received the ACS Award in Nuclear Chemistry in 1986.

The College of Arts and Sciences Alumni Association Distinguished Faculty Award went to **Charlie Parmenter** at a recognition banquet held by the College on Nov. 9. This award is based on three criteria: research, teaching, and service. Distinguished Professor Parmenter's research has been judged to make a difference in the field of vibrational energy of polyatomic molecules and has brought recognition and prominence to IU. He has had success in his teaching, both at the undergraduate and graduate levels, and has made out-of-the-ordinary contributions to the art of teaching. He has given time and expertise to the University and to Indiana. Parmenter has previously won the Indiana University Standard Oil Foundation Teaching Award (1968), the Spiers Memorial Lecture Medal of the Royal Society (Great Britain, 1983), the Alexander von Humboldt Prize (Germany, 1985), and the Sonneborn Award of IU (1990).

Our alumni, too, continue to be the recipients of various distinctions. **Linneaus Dorman**, PhD'61, was selected to receive the 1990 Award for Outstanding Service to the American Chemical Society, presented by the Midland Section of the American Chemical Society; **Robert B. Forney**, PhD'48, received the National Safety Council Robert F. Borkenstein Award for his pre-eminence in environmental health, traffic

safety, and toxicology in 1990. **Wendell Roelofs**, PhD'64, DSc'88, continues his award-winning ways having been awarded the Silver Medal of the International Society of Chemical Ecology at the Society's annual meeting in Quebec City this past August.

During 1990, three adjunct professors were appointed. **Max Marsh**, BS'47, has been actively involved with IU for many years during his tenure at Eli Lilly and has served on the Department of Chemistry Board of Overseers since its inception in 1979. Since his retirement in 1986, he has served as a visiting scientist in the department. **Al Sattelberger**, PhD'75, was a postdoctoral fellow at Case Western Reserve University and an assistant professor at the University of Michigan before joining the staff at Los Alamos National Laboratory in 1984. Sattelberger travels to Bloomington two or three times a year. **Walter Moore** served on the faculty at IU from 1952-73 and was on the faculty at the University of Sydney, Australia, from 1973-83. Since his retirement, Moore splits his time between Bloomington and Sydney.

The department will be hosting a complimentary breakfast for members of AIUC in Atlanta in April. The ACS usually schedules these breakfasts on Tuesdays, so that would make the date April 16. However, please watch *Chemical and Engineering News* to verify the announced place and date.

# ALUMNI ATTEND MINI-SYMPOSIUM

On Oct. 5, six former inorganic coworkers returned to IU to participate in a minisymposium. The symposium was held in the renovated chemistry auditorium, Room CH122 which aside from its room numbers bears no resemblance to its former state.

**Richard Wells**, PhD'62, of Duke University, and **Larry Sneddon**, PhD'78, of the University of Pennsylvania, presented talks on the topic of molecular precursors to solid-state materials such as gallium-arsenide and boron-nitride. Both Wells and Sneddon completed their PhDs with Professor **Riley Schaefer** and Wells recounted seeing the hole being dug for the 1960s building during his tenure as a graduate student.

**Allen Siedle**, PhD'73, of 3M R and D, St. Paul, Minn., described some elegant mechanistic studies aimed at elucidating various C-H and C-C bond activation steps in olefin polymerization by Cp<sub>2</sub>Zr-alkyl cations. Siedle, who completed his PhD with Professor **Todd**, was accompanied by his wife, **Veronica**, who also had spent time at IU as both a student and as a secretary in the department.

**Eric Maatta**, PhD'81, of the University of Kansas, spoke on some early transi-

tion metal imido complexes and some oligomers and polymers incorporating nitrogen based p-conjugated systems. Maatta was accompanied by his wife, **Meliz**, and his two children, five-month-old **Ian** and three-year-old **Sara**.

**John Marsella**, PhD'81, of Air Products and Chemicals, Inc., spoke on the activation of perfluoroalkanes and work related to the search for alternatives to CFCs. **Mark Hampden-Smith**, Post PhD'86-'88, of the University of New Mexico, presented recent research involving new routes to rhodium coatings on metal oxide supports, a topic embracing both molecular and solid-state chemistry and homogenous and heterogeneous catalysis.

Following the symposium, there was a dinner party at LePetit Cafe for returning alumni. On Saturday, the traditional picnic was held at Hardin Ridge at Lake Monroe. The weather was glorious, and this beautiful southern Indiana site provided an excellent opportunity for the current inorganic researchers to meet and mingle with alumni. The traditional persimmon tasting and geode collecting took place, and many a tale was handed down. The afternoon provided an excit-

ing event for many of the children.

Those returning included **Ian** and **Arlene Rothwell**, Post PhD'79-'81, and family; **Mark Green**, PhD'82; **Norman Wells**, PhD'83; **Andrew Ratermann**, PhD'83; and **Ken Miller**, PhD'78 and family.

## GRIECO RECEIVES ACS AWARD

The ACS Award for Creative Work in Synthetic Organic Chemistry for 1991 will go to **Paul A. Grieco**, Earl Blough Professor and chair of our department, at the spring national meeting in Atlanta.

Grieco receives this award for his contributions in several research areas: synthetic routes to macrolide/polyether antibiotics, sesquiterpene lactone synthesis, synthesis of compactin, and aqueous Diels-Alder reactions. Under the latter mild conditions for organic reactions, new regioselective and stereochemical patterns have been achieved.

Grieco has also received the ACS Ernest Guenther Award in the Chemistry of Essential Oils and Related Products in 1981 and a 1990 Arthur C. Cope Scholar Award, for which he lectured at the Cope Symposium in Washington, D.C., in August 1990.

## IU CHEMISTRY BUILDING WINS ARCHITECTS AWARD

The Chemistry Building addition, designed by **Harley Ellington Pierce Yee Associates**, Southfield, Mich., received an Honors Award from the American Institute of Architects. A plaque commemorating the award was presented during a ceremony at the building on July 18. The project was selected on the basis of its quality design, its sensitiv-

ity to the architectural integrity of the existing building, and its surrounding campus. The architectural firm has already received an award for outstanding design with the use of masonry from the Indiana Mason Contractors Association and the Masonry Institute of Indiana for the design of our new wings.

## VISITORS TO THE ALUMNI/ARCHIVES OFFICE

We have moved again since the last newsletter, presumably into permanent quarters, so we hope many more of you will stop by to visit with us. Among those who have been here since the last newsletter are **Horace Baxman**, BS'43, Rio Rancho, N.M.; **Raymond Boucher**, PhD'45, still playing golf in Florida; **Tax**, BS'83, and **Millie (Marshall)**, BS'84, Georgiadis, Los Angeles, **James Hickey**, PhD'77, Ann Arbor; **Mahendra Jain**, Post PhD'67-73, Newark, Del.; **Roger Johnson**, PhD'66, North Andover, Mass., who brought his wife and daughter to visit his alma mater; **Karl Koehler**,

PhD'69; **Bam Mehrotra**, PhD'65, Jackson, Miss., who brought his wife, son, and daughter to visit us; **Larry Newton**, BS'64, Stone Mountain, Ga.; **Youngnam Pak**, MS'84, who is teaching at the Korea National University of Education; **Royce Rasmussen**, Post PhD'62-63; **Donald G. Rose**, PhD'54, Los Alamos; **Walter T. Smith Jr.**, PhD'46, Lexington, Ky.; **Helen (Merriam) Stewart**, MA'46, Maquoketa, Iowa; and **Jim Thrasher**, BS'74, Murray Hill, N.J., who visited in spring and summer.

In addition to those who were here at the time of the naming ceremony, **Standiford Cox**, BA'57, **Nancy**

(**Holwager**) **Harrison**, BA'56, and **Eriks Krumkalns**, BS'56, came down from Lilly, Indianapolis, to visit **Max Marsh**, BS'47, and stopped by to see us. **John Baur**, PhD candidate, stopped by to tell us he had taken his oral exam and was returning to the Miles Labs, Clayton, N.C. We were sorry to have missed **Ted Logan**, BA'53, when he visited recently.

**Fred and Maxine Hardy** were here one day last summer from Winter Haven, Fla., and **Martha Lois (Gordon) Scheier** and her husband stopped by for a few minutes this fall. It is always good to visit with former staff and alumni.

# ALUMNI ATTEND ACS BREAKFASTS

Last year, Paul Grieco, deciding to try a new approach to AIUC get-togethers at ACS meetings, announced a complimentary breakfast at the Boston meeting in April. Attendance at the traditional cocktail parties has fallen off sharply in recent years, but response to the breakfast was excellent. More than 40 people assembled in the private dining room at the Marriott in Boston on Monday, April 23, to renew old acquaintances and make new ones.

Some of those attending failed to sign the guest book, so we do not have a complete list. However, among those present were **Betty Jo Brown, MS'67; N. Clinton, Post PhD'70-72; Wilson DeCamp, BS'60; Alan Dickinson, PhD'65; Lin Dorman, PhD'60; Ron Forsch, PhD'77; John Yan Jaw, MS'82; Richard Kramss, BS'81; Gunther Kuehl, Post PhD'57-59; Randall Lis, PhD'83; Andrew Liu, BS'51; Ted Logan, BA'53; Mike Rapp, PhD'68; Royce Rasmussen, Post PhD'63; Dale Rieger, PhD'89; Merlyn Schuh, PhD'71; Alan Siedle, PhD'73; Jack Stocker, MA'47; Kyle Terhune, BS'80; Bob Wier, BS'40; and Jack Young, PhD'55.**

A similar convivial group gathered at the Holiday Inn Crown Plaza in Washington, D.C., on the morning of Aug. 27. Again we failed to get a complete list of those attending. Among those who did sign the guest book were **Ellen Brandes, PhD'89; Daniel Becker, PhD'86; Lyman Caswell, MA'50; Joseph D'Antuono III, PhD'89; Wilson DeCamp, BS'60; Rick Gaston, PhD'87; Jonathan Grote, PhD'84; Frank Guthrie, PhD'62; Chris**

**Hawkins, PhD'86; Guenter Kuehl, Post PhD'57-59; Ted Logan, BA'53; Jay McGill, PhD'90; Fred Mets, PhD'62; Wayne Pritts, graduate; Meredith Sparks, MA'28; Joseph Stemple, PhD'89; Greg Urove, graduate; Kenneth Vieira, PhD'84; Matthew Vincent, MS'88; M. C. Wani, PhD'62; and Bob Zelle, PhD'84.**

Faculty attending both breakfasts were **Paul Grieco, Joe Gajewski, Bill Roush, and Jack Shiner. M. Carmack, Jack Crandall, Charlie Parmenter, and Gary Wiggins** attended the Boston affair, while **George Christou, Steve Creager, Milos Novotny, Dennis Peters, and Vic Viola** were at the Washington breakfast.

Paul Grieco would like to hear from alumni regarding the breakfast idea. Future breakfasts will be announced.



*Meredith Sparks, BA'27, MA'28, attended the alumni breakfast in Washington, D.C.*



*Of the alumni attending the Boston Breakfast, some were identified and others not—such as the two men second and third from the left in this photo. Can you help identify the unknowns? Also at the table are, clockwise from left, Paul Burnett, Eric Otterbocker, Merlyn Schuh, Charlie Parmenter, Bob Weir, Mrs. Bob Weir, Mrs. Guenther Kuehl, and Guenther Kuehl.*

## AUDITORIUM

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As many of you remember, Day joined the faculty in 1940 and was given the title Professor Emeritus in 1976. He received a bachelor's degree from Cornell College and the ScD from Johns Hopkins, as well as an honorary ScD from Cornell College.

His research with **Joe Muhler** and **William Nebergall** on the role of fluorides in dental care led to the development of the first successful method of combining stannous fluoride and other fluorides with toothpaste to maintain the effectiveness of the fluoride. Their findings were the basis for Crest toothpaste, produced and marketed by Procter & Gamble Co.

During his career at IU, Day not only

served as chair of the Chemistry Department, but also was associate dean for research and advance studies, special assistant for research and development, and University necrologist. He has been a member of the Bloomington Faculty Council, Graduate Faculty Council, and numerous committees and boards.

Outside the University community, among other responsibilities, he served as a member of the Bloomington City Council, the local and Region Ten Comprehensive Health Planning Councils, and Blue Cross/Blue Shield of Indiana Rate Review Board. He was also president of the American Institute of Nutrition and had several roles in the ACS, including serving as vice chair of the examinations committee.

Among Day's awards are Johns Hopkins University Centennial Scholar, the Exchange Club Book of Golden

Deeds for Outstanding Community Service to Bloomington and Monroe County, Speaker of the Year for the Indiana Academy of Science, and Outstanding Alumnus in Public Health Award from Johns Hopkins. He was elected to the Indiana Academy (limited to 100 living members) in 1989. During the naming ceremony, President Ehrlich presented Day with the President's Medal for Excellence. This medal has been presented to only 15 other people.

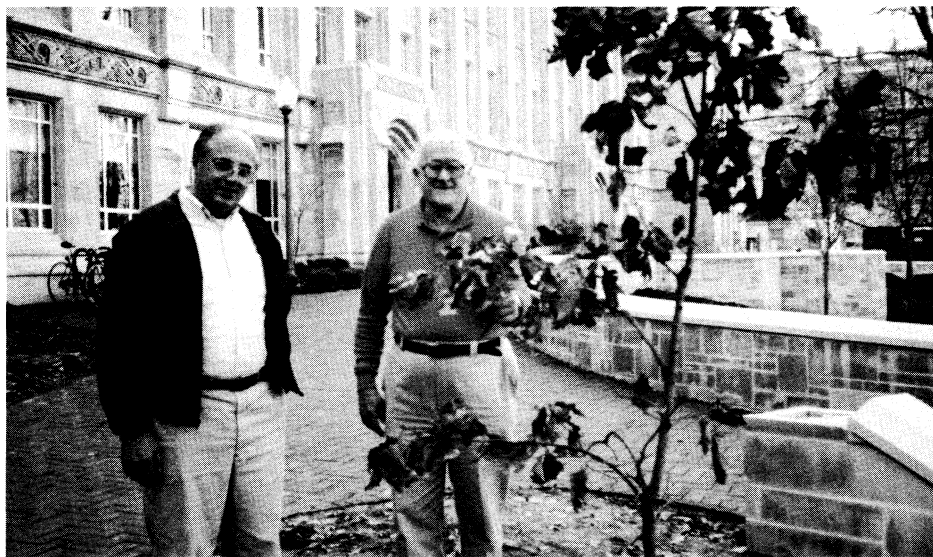
**John Suttie** of the University of Wisconsin, delivered the Harry G. Day Lecture. Appropriately, this took place in the newly named Harry G. Day Lecture Hall. His topic was "The Role of Vitamin K-dependent Gamma-glutamyl Carboxylation in Blood Coagulation." The lectureship was established in 1987 with funds donated by friends, colleagues, and former students of Day.

## ED BAIR RETIRES

Edward J. Bair, an experimental physical chemist, retired on Aug. 1, 1990, at the age of 68. Bair joined the IU faculty in 1954, after serving as a research fellow at the University of Washington. He received his BS from Colorado State in 1943 and his PhD from Brown University in 1949.

Bair used experimental methods such as flash photolysis, infrared laser excitation, high resolution spectroscopy, and a variety of electronic techniques to study reactions in gases. He was best known in the department for his large spectrometer—known as The Cannon or Big Bertha. An expert in designing and building instruments and physical chemistry equipment, he was a principal user of our machine shop. He taught and developed course material in the physical chemistry laboratory courses and was the author of a basic text, *Introduction to Chemical Instrumentation*, McGraw-Hill, 1962.

Bair has served on the editorial board of the *Journal of Photochemistry* since 1972. In the early '70s, he served as chair of Bloomington's Environmental Quality



Paul Grieco, left, and Ed Bair view the red oak planted in Bair's honor along the new walkway north of the Chemistry Building.

and Conservation Commission and organized the Air Quality Control Commission.

Most of the faculty and staff of the department filled the IMU's Coronation Room at a dinner in honor of Ed and Dorothy Bair on Nov. 1. That afternoon,

a red oak tree was planted in front of the new north facade of the Chemistry Building, and a plaque honoring Ed was installed. The Bairs will continue to live in Bloomington, with frequent trips to their tree farm near Crane and occasional trips to Colorado.

## DENNIS PETERS HONORED AT SYMPOSIUM

Last August, a number of former and present students and colleagues of Professor Dennis G. Peters attended the American Chemical Society symposium in Washington, D.C., to honor him as 1990 recipient of the ACS Division of Analytical Chemistry Award for Excellence in Teaching.

Presenting papers at the symposium were IU Professors John M. Hayes, Milos V. Novotny, and Stephen E. Creager, along with Professors Dennis H. Evans, University of Delaware;

Michael D. Morris, University of Michigan; and R. Mark Wightman, University of North Carolina.

Former graduate and undergraduate students offering papers were Mark R. Anderson, BS'83, assistant professor at Virginia Tech; Dinh C. Nguyen, BS'79, Los Alamos National Laboratory; Brian C. Willett, BS'78, 3M Co.; Stanley L. Burden, PhD'66, professor at Taylor University; and Joseph Z. Stemple, PhD'89, Naval Research Laboratory. Other former and present

students who attended the meeting and related social occasions were Forrest G. Johnson, IU sophomore; Daniel M. La Perriere, PhD'78, AT&T; Wayne A. Pritts, IU graduate student; Azad Raiesdana, IU sophomore; James R. Runo, IU sophomore; Norman D. Smith, PhD'70, Environmental Protection Agency, Raleigh, N.C.; Greg A. Urove, IU graduate student; Kenneth L. Vieira, PhD'84, Clorox Corp.; Matthew L. Vincent, IU graduate student; and Lisa Hiner-Ward, BS'84.

## HOFFMAN GIVES FRANK C. MATHERS LECTURE

On Oct. 8, 1990, Nobel Laureate Roald Hoffman, John A. Newman Professor of Physical Science at Cornell University, gave the 13th Mathers Lecture.

The Frank C. Mathers Lectureship in Chemistry was established in 1970 through an anonymous gift from a former student of the late Professor Emeritus Frank C. Mathers. Other alumni have, from time to time, contributed to support this important lectureship, which is intended to sponsor a lecture of broad general interest in chemistry. Among previous Nobel Laureates who have given Mathers Lectures at IU are John Griffith (1970), H. Gobind Khorana (1971), William N. Lipscomb

(1972), Christian B. Anfinsen (1974), and Linus Pauling (1977).

The breadth of Hoffman's perspective is illustrated by the various prizes and awards he has won. He has received the ACS Award in Pure Chemistry (1969), the Fresenius Award of Phi Lambda Upsilon (1969), the Harrison Howe Award of the Rochester Section (1969), the Award of the International Academy of Quantum Molecular Sciences (1970), the Pauling Award of the Puget Sound and Oregon Sections (1974), the Nichols Medal of the New York Section (1981), the ACS Award in Inorganic Chemistry (1982), the Dickinson College Award in memory of Joseph

Priestley (1986), and the National Academy of Sciences Award in Chemical Sciences. In 1973, he shared the first Arthur C. Cope Award in Organic Chemistry, and in 1981, he shared the Nobel Prize in Chemistry with Kenichi Fukui. He was awarded the National Medal of Science (1983) and the Priestley Medal (1990). He is a member of the American Academy of Arts and Sciences (1971) and the National Academy of Science (1972).

Hoffman gave a two-hour lecture in Whittenberger Auditorium on "Making and Breaking Bonds in the Solid State." A reception, attended by many of our out-of-town guests, followed.

# STAFF NEWS

## Association of Indiana University Chemists Newsletter

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### Loyd Hudson

Several awards, anniversaries, and changes have been recorded by the staff in the Department of Chemistry.

The Campuswide Staff Award in the service-maintenance category was presented to **Robin Nordstrom**, head of duplicating services in the Chemistry Department. On receiving the highest campus award that is made available to staff personnel, Nordstrom, who has been with the department since August 1977, was cited for meritorious service.

**Larry Sexton** and **Kenneth Bastin** were corecipients of the Chemistry Staff Award. Sexton and Bastin, who have been with the department since 1969 and 1971 respectively, were recognized for superior work in the mechanical instrument services shop.

In February, **Ray Sporleder**, computer systems engineer, observed his 20th anniversary with the department. In March, **Mike Jackson**, freshman teaching labs solutions, was awarded a 20-year pin. **Steve Studley**, with Dr. Hayes' group, received a 20-year pin, jointly in chemistry and geology, in a ceremony held in Geology. In October, 75 years of service to the department were marked with the awarding of pins. **Pat Stapleton**, graduate office, and **Tom Hacker**, freshman lab supplies, each received a 20-year pin. **Mary Swarthout**, chair's office, now has a 15-year pin, while **Scott Horn**, Molecular Structure Center, and **Jack**

**Baker**, chemistry engineer, received ten-year pins.

Two retirements have occurred since the last issue. **John W. (Bill) Miller**, mechanical instrument services, retired at the end of January. **Larry Sexton** assumed Miller's responsibilities and Sexton was replaced by **Drew Packman**. **Ron Withnell**, director of technical services, retired at the end of August. **John Huffman** has agreed to act as director.

Several clerical positions have changed personnel. In July, **Julie Evard** left Dr. Novotny's group and was replaced by **Starla Stavely**. **Betty Minnick** left the graduate office, her position being taken by **Mary Hannah**. Four changes were recorded in August. **Lori Parham** returned to school and was replaced by **Kathy Hiron**; Hiron's vacancy is now filled by **Lee Ann May**. **Cheryl Johnson** replaced **Jimmie Brescia** with Dr. Roush. Johnson's position with Drs. Crandall, Gajewski, and Montgomery is now occupied by **Ava Neal**. Furthermore, **Maria Guarneri** replaced **Joanne Wood** as secretary to Drs. Allerhand, Newton, Stryker, and Widlanski.

The administrative offices have now left their temporary quarters and are housed in new, permanent locations within the remodeled 1930s building. The new offices are not only much more functional than the temporary ones but are very attractive with new furniture and carpeting.

## DuPont Lectures

Feb. 20

Marye Anne Fox, University of Texas, "Controlling Electron Transfer in Organic Media"

Feb. 27

James D. White, Oregon State University, "Some New Developments in Synthesis Methodology and Their Application to Natural Products"

Apr. 3

Robert Bell, Duke University Medical Center, "Lipid Breakdown Products and Cellular Regulation"

Apr. 10

Harry F. Noller, University of California, Santa Cruz, "Ribosomal RNA and Translation"

May 1

Lord Jack Lewis, FRS, Cambridge University, England, "Metal-Metal Bonding in Inorganic Chemistry"



Annalese Poorman

The 1990 DuPont Associate Instructor Award for Excellence in Teaching winners were, left to right, James P. Beck, Lori A. Norman, and Stanley K. Dunn.

# GRADUATE NEWS

Pat Stapleton

## RECENT PHDS

PhD recipients with area, research professor, and first position accepted for the 1989-90 academic year include the following:

**Stephen C. Beale** (analytical, M. V. Novotny), University of North Carolina, Chapel Hill, postdoc fellow.

**Kirk W. Butz** (chemical physics, C. S. Parmenter), Griffith University, Australia, postdoc.

**Huan-Cheng Chang** (physical, G. E. Ewing), Harvard University, Cambridge, Mass., postdoc.

**Janet L. Coope** (organic, V. J. Shiner, Jr.), Unilever Research, Edgewater, N.J., principal research chemist.

**Joseph D'Antuono** (organic, D. R. Williams), Lederle Co., Pearle River, N.J., research chemist.

**Steven J. Doherty** (analytical, K. L. Busch), Dow Chemical U.S.A., Pittsburg, Calif., research chemist.

**Constantine Douketis** (physical, J. R. Reilly), University of Toronto, Canada, postdoc.

**Kevin L. Duffin** (analytical, K. L. Busch), Monsanto Co., St. Louis, Mo., postdoc associate.

**Ronald E. Farren** (chemical physics,



Graduate students honored for excellence in research for 1989-90 are, from left, Jon L. Collins, Robert Chernin Award for most outstanding work in the chemistry course C500; Stephanie T. Chacon, William Nebergall Award for inorganic research; Linda D. Martin, Henry R. Mahler Memorial Award for biochemistry research; and Jinping Liu, Felix Haurowitz Award for best overall performance through the fifth semester.

P. W. Langhoff), Harvard-Smithsonian Center for Astrophysics, Cambridge, Mass., postdoc research fellow.

**Kyle R. Gee** (organic, J. J. Gajewski), University of Oregon, Eugene, postdoc.

**Jeffrey T. Gelwicks** (biochemistry, J. M. Hayes), Merck & Co., Inc., Rahway, N.J., research analyst.

**Charles E. Hammond** (inorganic, M. H. Chisholm), VISTA Chemical Co., Austin, Tex., research chemist.

**James F. Hoover** (organic, J. M. Stryker), General Electric Plastics, Mt. Vernon, research chemist.

**Debra R. Luffer** (analytical, M. V. Novotny), University of Arizona, Tucson, postdoc.

**Wayne S. Mahoney** (inorganic, K. G. Caulton), University of Illinois, Urbana, postdoc.

**Steven R. Maple** (physical, A. Allerhand), Eli Lilly & Co., Indianapolis, senior analytical chemist.

**John M. McGill** (organic, D. R. Williams), Eli Lilly & Co., Lafayette, research chemist.

**Jeffrey R. Millard** (physical, J. R. Reilly), Jaycar, San Diego, Calif., research chemist.

**Kevin G. Owens** (analytical, J. R. Reilly), Chemistry Department, Drexel University, Philadelphia, Pa., assistant professor.

**Steve Partono** (biochemistry, A. S. Lewin), returned to his home country, Indonesia.

**Leslie A. Robinson** (organic, D. R. Williams), University of California-Irvine, postdoc.

**Jeffrey L. Seela** (inorganic, G. Christou), University of Michigan, Ann Arbor, postdoc.

**Ellen Sekreta** (physical, J. R. Reilly), University of California-Irvine, postdoc.

**Jeffrey A. Sheehy** (chemical physics, P. W. Langhoff), NASA-Ames Research Center, Moffett Field, Calif., NRC research associate.

**Michele S. Stanley** (analytical, K. L. Busch), Merrell Dow, Indianapolis, senior chemist.

**Joseph Z. Stemple** (analytical, D. G. Peters), Naval Research Lab, Washington, D.C., postdoc.

**Eric G. Thaler** (inorganic, K. G. Caulton), General Electric, Schenectady, N.Y., research chemist.

**George H. Vickers** (analytical, G. M. Hieftje), Amoco Research, Naperville, Ill., research chemist.

**Ford P. Wilgis** (organic, V. J. Shiner Jr.), Indiana University, Bloomington, postdoc.

**Charles W. Wilkerson** (analytical, J. (continued on page 8)



James Freeman, PhD'84, of Upjohn presents Paul J. Galley with the 1989-90 Reilley-Upjohn Award for outstanding analytical research.

# GRADUATE NEWS

(continued from page 7)

R. Reilly), Los Alamos National Labs, Los Alamos, postdoc fellow.

**David O. Wipf** (analytical, R. M. Wightman), University of Texas, Austin, postdoc fellow.

**Daniel L. Zabrowski** (organic, P. A. Grieco), G. D. Searle & Co., Skokie, Ill., research investigator.

## MS RECIPIENTS

**Joan E. Bartelt** (R. M. Wightman), **Jennifer E. Carson** (A. Allerhand), **Paul S. Coan** (K. G. Caulton), **Monte W. Collins** (K. L. Busch), **Andrew H. Fray** (D. R. Williams), **Brian D. Gebhart** (G. M. Hieftje), **Cynthia L. Henry** (D. R. Williams), **Robert G. Lee** (J. M. Hayes), **John P. Lucia** (P. W. Langhoff), **Robert T. Madison** (G. M. Hieftje), **Marion L. Mino** (G. Christou), **Mary L. Powers** (F. R. N. Gurd), **Joseph C. Savage** (M. V. Novotny), **Michael R. Troutman** (R. A. Hites), **Melinda B. Tubergen** (J. Jaehning), **Susan M. Visscher** (R. A. Hites).



Annalese Poorman

Graduate students awarded fellowships for 1989-90 are, from left, **Sherry J. Yennello**, Amoco Fellowship; **Kyle R. Gee**, General Electric Foundation Fellowship; **Melissa S. Reeves** and **Andrew Fong**, National Science Foundation Fellowships; **Debra R. Luffer**, American Chemistry Society Fellowship; **John W. Benbow**, Graduate School Dissertation Year Fellowship; **Jinping Liu**, Lubrizol Fellowship; **Mary K. Carroll**, NSF Fellowship; and **Barbara S. Ross**, Second Semester Graduate School Research Fellowship. Not pictured: **Otto T. Berg**, Procter and Gamble Fellowship; **Jeffrey A. Sheehy**, Graduate School Summer Research Fellowship; and **Harry J. Elston** and **Christian M. Rojas**, Patricia Robert Harris Fellowships.

# UNDERGRADUATE NEWS

*Holly Willett*

In mid-August the chemistry undergraduate and chemistry placement offices moved to new quarters located in the renovated 1930s building. The area is carpeted and has all new furnishings. It's quite a change from the temporary quarters on the sixth floor of the 1960s building.

Professor **W. Terry Jenkins** continues to serve as coordinator of undergraduate studies, **Holly Willett** as academic counselor and manager of the chemistry placement office, and **Janice Bishop** as office secretary.

We graduated 132 students in 1989-90 (137 graduated in the 1988-89 school year). Of these students, 22 received BS degrees in chemistry, 34 received BS degrees in biochemistry, and 76 received BA degrees in chemistry.

We experienced an increase in the numbers going on to graduate school programs and a decrease in the numbers going to medical school. Nearly 50 graduating seniors went to jobs in industry. Twenty-nine students participated in our Chemistry Honors

Program during 1989-90, and 52 students engaged in C409 Undergraduate Research (an increase from only 44 in the 1988-89 school year).

The number of companies coming to our department to interview undergraduates and graduate students con-  
(continued on page 9)



Annalese Poorman

Summer Research Scholarships were received by, back row, from left, **Danny W. Rice**, **Eyal Barash**, **Daryl C. Drummond**, **R. Scott Kirish**, **John N. Diana**, **Colin E. Chang**, **Jill L. Werling**, **Michael W. Russell**, and **Charles W. Lugar**; and front row, from left, **Gary R. Fuentes**, **Stephen L. Gwaltney**, **Erica L. Absher**, **Carolyn D. Dzierba**, **Fred Chin**, **Lisa M. Stigner**, **Noel S. Murcia**, and **Aron C. Sousa**.



# UNDERGRADUATE NEWS

(continued from page 8)

tinues to increase. Twenty-eight of the 45 companies that recruited here in 1989-90 interviewed both undergraduate and graduate level candidates.

The annual Chemistry Honors banquet was held in the Frangipani Room of the Indiana Memorial Union on April 5th. The following undergraduate students were honored:

The William H. Bell Award—Eyal H. Barash

The Courson-Greeves Prize—John G. McNutt

The Frederic C. Schmidt Award—Judith A. Stenftenagel and Jeffrey W. Orr

The Joseph B. Schwartzkopf Award—Robert E. Smith and Dean P. Stamos

The ACS Awards—Michael J. Wilson and Mary Catherine Yoder

The Senior Awards—Andrew M. Ratz and Alan P. Ladd

Cooperative Education Certificates—Steven M. Bakeis, Kaye S. Guthrie and John M. Poholarz

The Bill Mays Award—Denessa R. Luckett

The Verling M. and Elizabeth Votaw Award—Judith A. Stenftenagel

The Merck Index Awards—John N. Diana, Stephen L. Gwaltney, II and Aron C. Sousa

The Harry G. Day Academic Year Scholarships—Colin E. Chang, Thomas M. Koenig, Noel A. Murcia, Andrew M. Ratz, Robert E. Smith, Dean P. Stamos, and Mary C. Yoder

The Ira E. Lee Summer Research Scholarships—Colin E. Chang, Fred Chin, Carolyn D. Dzierba, Gary R. Fuentes, Azad Raiesdana, and Michael W. Russell

The Harry G. Day Summer Research Scholarships—John N. Diana, Daryl C. Drummond, Stephen L. Gwaltney, II, Charles W. Lugar, Danny W. Rice, Lisa M. Stigner, and Jill L. Werling

Honors Division Summer Research Scholarships—Erica L. Absher, Eyal H. Barash, Robert S. Kirsch, Christine M. Smith, and Aron C. Sousa

The Lilly Undergraduate Summer Research Scholarships—Tonya M. Bricker and John G. McNutt

R. J. Grim Scholarships for 1989-90—(Class of 1990) Alan P. Ladd, Andrew M. Ratz, Judith A. Stenftenagel, and Michael J. Wilson; (Class of 1991) Eyal H. Barash, John G. McNutt, Bryan O.

Potter, Kent J. Risk, and Aron C. Sousa; (Class of 1992) Steven R. Gwaltney, Bryon S. Ladd, Robert W. Milne, and Christine M. Smith

Outstanding in first-year Chemistry C105—Tiffany D. Williams; C125—Demetrios K Geroulis; S105—Terri A. Borrowman; S125—Anthony Chin; C106—Jennifer C. Bronson; C126—Danny W. Rice



Annalese Poorman

Top Senior Awards went to Alan P. Ladd, left, for BS in chemistry and Andrew M. Ratz for BS in biochemistry.



Annalese Poorman

John G. McNutt, from left, won the Lilly Summer Research Scholarship in organic chemistry and the Courson-Greeves Prize for 1990-91; Tonya Bricker won the Lilly Summer Research Scholarship in analytical chemistry. At right is Dr. Pawel Fludzinski, head of central nervous system and endocrine chemistry research at Eli Lilly and Co.



Annalese Poorman

Dean P. Stamos, from left, and Robert E. Smith received the Joseph B. Schwartzkopf Awards; Mary C. Yoder and Michael J. Wilson won the American Chemical Society Awards; and Jeffrey W. Orr received the Frederic C. Schmidt Award.

# ALUMNI NEWS

**George M. Bodner**, PhD'72, was quoted extensively in a comprehensive special report in C&EN on June 11, 1990, concerning the presidential plenary session on science education held at the April 1990 ACS meeting in Boston. Bodner and the other panelists focused on serious problems in science education.

**Max I. Bowman**, PhD'37, has been retired from Wisconsin State University at Oshkosh, Wis., for ten years. One of his current activities is translating scientific Russian articles for people or organizations desiring help.

**Ellen Brandes**, PhD'88, has transferred from Amoco, Naperville, Ill., to a new position with Mobil Chemical Corp., Princeton, N.J.

**John E. Burks, Jr.**, PhD'75, has been promoted to research scientist in chemical process development at Eli Lilly.

**John Carey**, MS'79, MD'83, is with the Henry Ford Foundation, Detroit.

**Yun-Ti Chen**, PhD'52, and our Distinguished Professor Malcolm Chisholm met in Gerre, East Germany, at the 29th ICCS meeting and enjoyed a long visit. Chen has served as chair of the department of chemistry at Nankai University and is now professor emeritus and a member of the Chinese Academy of Sciences.

**Mark A. Dayton**, PhD'81, MD'83, was at IU from 1973-90 and is now assistant professor of internal medicine at Ohio State University.

**R. Bruce Dunlap**, PhD'68, is professor of chemistry at the University of South Carolina. In addition, he has recently become director of basic research for the Cancer Center for Treatment and Research of Richland Memorial Hospital, Columbia, S.C.

**Isidore S. Edelman**, BA'41, MD'44, was chair of the department of biochemistry and molecular biophysics at Columbia University from 1978 to 1988. He has been a member of the National Academy of Sciences since 1973.

**Leon Ellenbogen**, PhD'54, was elected to the 1990-95 USP committee of revision at the United States Pharmacopoeial Convention, Inc. He will serve in the Drug Standard Division with special attention to dietary supplements on the vitamins, minerals and enterals subcommittee.

**Laurence R. Finger**, PhD'81, has been appointed assistant professor of medicine at the New York Medical College, Valhalla, N.Y., effective last September.

**Robert B. Forney**, PhD'48, has spent virtually all his life in Indiana except for three years in the U.S. Army from 1943 to 1946. His many professional and public recognitions in national forensic toxicology are indeed impressive. He became Distinguished Professor Emeritus in 1987.

**Joe W. Garrison**, MA'40, had a 40-year career with Texaco. In 1980, when he retired from Texaco Refining, Lawrenceville, Ill., he was chief chemist and supervisor of air and water conservation. His late wife was also a chemist.

**Todd Gordon**, BA'88, reports that he completed his masters in public health from the University of Illinois in June and was appointed to the Illinois Board of Health, Skokie.

**Charles E. Hammond**, PhD'89, in April became chair-elect of the Central Texas Section of the ACS.

**Nancy Holwager Harrison**, BA'56, JD'80, was promoted to senior patent attorney at Eli Lilly in 1990.

**Christopher Hawkins**, PhD'86, joined the GE Research and Development Center as an organic chemist.

**Robert D. Huntington**, BS'72, is a partner in a patent law firm in Alexandria, Va., where his practice is mostly in biotechnology and chemistry.

**Jeffrey A. Joens**, PhD'84, has been promoted to associate professor of chemistry at Florida International University.

**Edith Schroeder Lessor**, PhD'55, has been reappointed chair of the Division of Natural Sciences at Mount Saint Mary College, Newburgh, N.Y.

**Hugh W. Johnston**, PhD'48, was professor of organic chemistry at Whitworth College during most of his professional career before retiring. For 13 years, he was chair of the Washington State Science Search program, sponsored by the Westinghouse Corp. Along with a colleague, he gives many two-piano concerts. In 1987-89 he was president of the Spokane Music and Arts Festival. His long and impressive philatelic actions have won national and international recognition. Johnston is also an accomplished archaeologist, specializing in Egyptian and Mexican sites.

**Eric Maatta**, PhD'81, was named the 1989-90 winner of the Segebrecht Award in chemical science at Kansas State University. In announcing the award, KSU Vice Provost Kruh commented, "Professor Maatta is widely acclaimed by

undergraduate and graduate students alike. His ability to create understanding and inspire interest is outstanding, and he has an impressive command of the field."

**Dana Mayo**, PhD'59, and his colleague, Samuel Butcher, were selected as corecipients of the twelfth Bowdoin Prize, the highest honor that can be bestowed on a member of the faculty of Bowdoin College. This prize is awarded every five years to someone recognized as having won national distinction. They are being honored for their roles in pioneering the microscale organic chemistry apparatus and curriculum currently in use at Bowdoin and being duplicated at more than 300 colleges and universities across the country.

**Richard N. McCarty**, PhD'72, is a trustee of the State Medical Board of Ohio and a member of the National Medical Research Council during the 1990-92 term.

**Michael McNees**, BA'77, has been appointed director of the office of management and budget for Collier County, Florida.

**Jeffrey Santrock**, PhD'85, received the Investigator of the Year Award from the Society of Toxicology. He tells us that this award was based on work he did in John Hayes's laboratory. He continues to be busy in the General Motors Research Laboratories.

**Fredrick M. Stein**, PhD'71, continues to be very active in programs to improve science and mathematics in the public schools of Philadelphia. He is director of the Philadelphia Renaissance in Science and Mathematics (PRISM) program.

**Jack Stocker**, MS'47, is serving as chair of the Division of History of Chemistry of the ACS.

**Stanley A. Stringer**, BS'57, retired from the Food and Drug Administration and is now serving as a consultant specializing in drugs and medical devices for Arthur A. Checchi, Inc., Washington, D.C.

**Eric Thaler**, PhD'89, has joined the GE Research and Development Center as an inorganic chemist.

**Robert L. Waters**, BA'62, has attained a host of honors, awards, and high responsibilities for his diverse contributions in orthopedic surgery, especially in spinal cord injuries and rehabilitation problems. He has held many professional elective offices and is now president-elect of the American Spinal Injury As-

# ALUMNI NEWS

sociation. His current appointment is director of the Rehabilitation Engineering Center at the Rancho Los Amigos Medical Center, Downey, Calif.

**Frank J. Welcher**, PhD'32, has written the first-ever encyclopedia of the Union Army. The 1,064-page first volume was published by the IU Press. He is working on the second volume. Prior to this undertaking, he has authored books on chemistry and has taught chemistry at IUPUI for 46 years.

**J. Edmund White**, PhD'58, is coordinator of science education for the School of Science at Southern Illinois University. In October 1989, he received the Service Award from the Illinois Association of Chemistry Teachers. He is past president of the association.

**John Wilson**, MA'39, after four exciting war years, became an operating chemist for the Corn Products Refining Co. Later, he became a partner in Heidrick & Struggles, Inc., where he remained until his retirement in 1982. He and his wife, **Dorothy Nordman Wilson**, BA'36, also a chemist, live in Florida but visit the campus frequently.

**Dale F. Wolfgram**, MAT'67, teaches college-prep and A.P. chemistry at Grand Blanc High School, Lapeer, Mich. Among his several special activities, he is workshop leader for Project Seraphim. This is a NSF-funded program to advance the use of computers in high school and college education.

**Harold H. Zeiss**, BS'38, has retired from Monsanto and now lives in Bloomington. He has recently married **Melvina Barrett** of Penzance/Cornwall, U.K.

**Morris Zimmerman**, PhD'55, after retiring from Merck, taught biochemistry at IU in 1988-89. Following this, he taught one semester at Drew University. He is still a consultant for pharmaceutical companies.

It was pleasing to learn that several of our alumni achieved 50 years membership in the ACS this year. They are **Edward Bobalek**, PhD'42; **Max I. Bowman**, PhD'37; **Robert B. Forney**, PhD'48; **Joe Garrison** MA'40; **Herbert S. Gutowsky**, BA'40, DSc'83; and **John Wilson**, MA'39.

In connection with the naming ceremony for the Harry G. Day Lecture Hall and the second Harry G. Day Lecture, many alumni visited the department to attend the event and to congratulate Professor Day. Among those attending the banquet in his honor on

the 19th were **Burton Appleton**, PhD'58; **Ram Bedi**, PhD'60; **Mohammad Behforouz**, PhD'65; **William Bromer**, PhD'54; **J. Paul Burnett**, PhD'61; **Robert Buck**, BS'42; **Charles Bunnell**, BA'69; **John Burks**, PhD'79; **Frank Cheng**, PhD'57; **Donald Jack Cook**, PhD'44; **Chester Davis**, BS'44; **Wilson DeCamp**, BS'60; **Linneaus Dorman**, PhD'61; **Harry Gatos**, MA'48, DSc'83; **Frank Guthrie**, PhD'62; **William Hodes**, PhD'52; **Marjorie Kartinos**, MA'46; **Nicholas Kartinos**, PhD'47; **Walter Kleinschmidt**, BS'40; **Paul Krieger**, MS'65; **Joe Leal**, PhD'43; **William LeSuer**, PhD'48; **Wendell Meyer**, PhD'62; **Steven Mohler**, BS'80; **Elsa Paulsen**, MA'45; **Royce Rasmussen**, post PhD'62-63; **William Roessler**, MA'43; **William Rogers**, PhD'57; **Nolan Sommer**, PhD'44; **Meredith Sparks**, MA'28; and **Martin Wagner**, PhD'58. Alumni who attended the afternoon ceremony included **Eldridge Faith**, BS'38; **William G. Mays**, BA'70; and **Harold Wesselman**, BA'40.

## DAVIS RECEIVES SPECIAL AWARD

**Chester Davis**, BS'44, received the Distinguished Alumni Service Award at the DASA luncheon, sponsored by the IU Alumni Association, on June 17.

Davis is recognized as an authority on the principles and practical aspects of chemical intermediates and dyestuffs. His discoveries in the production of carbonless recording paper have been of substantial practical and financial value. After patent rights for that product were assigned, major litigation developed. Through his persistent, courageous, and resourceful efforts as key intervener, Davis received full acknowledgement of his rights as independent patentee. His independent research has led to 15 U.S. and four foreign patents.

## NECROLOGY

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

**Harry W. Banker**, BA'43, MD'45, died Jan. 18, 1990

**David K. Barnes**, PhD'47, died Mar. 21, 1990.

**Lynus Barnes Jr.**, BS'55, died Jan. 11, 1990

**Melvin G. Bowman**, PhD'43, died April 16, 1990

**Edward J. Brockman**, BA'42, died Feb. 18, 1990

**Tonya Lynne Carter**, BA'90, died July 18, 1990

**John C. DeAngelis**, BA'50, died May 10, 1989

**David W. Dennen**, PhD'66, died June 21, 1990

**Earl Fisher**, BA'44, died Nov. 18, 1989

**Donald E. Flick**, BA'43, died Jan. 14, 1990

**Donald Garber**, BA'14, died January 23, 1989

**Patricia Hackett**, MA'48, died Sept. 3, 1989

**Charles A. Hawthorne**, MAT'56, died June 9, 1990

**Edgar Higgins**, MA'39, died Jan. 17, 1990

**John W. Holland**, BA'41, died Mar. 20, 1990

**Lawrence D. Hoppes**, MA'33, died Sept. 23, 1989

**Raymond R. Johns**, BA'48, died Dec. 13, 1989

**David H. Jung**, PhD'35, died Mar. 7, 1990

**Walter A. Laudeman**, MA'16, MD'26, died Sept. 10, 1990

**Dwight M. Overcash**, MA'33, died April 12, 1990

**Foster Lewis Pepper**, MA'32, died Aug. 17, 1989

**James Rooley**, PhD'51, died June 17, 1990

**John Sutphin Schechter**, BA'39, MD'42, died Sept. 17, 1990

**Robert W. Stephenson**, BA'38, died June 23, 1990

**Nicholas Tonhazy**, BA'48, died June 13, 1989

**Lella R. Trafelet**, BA'31, died Nov. 6, 1988

**Morris J. Tumey**, BS'41, died Dec. 4, 1989

## DOW FUNDS CENTER

Chemistry students will receive help with assignments and course work in a new resource center to be located on the ground floor of the Chemistry Building. The center, funded by a gift of \$260,000 from the Dow Chemical Co. Foundation, will be equipped with state-of-the-art computers.

The gift was announced, at a ceremony in the courtyard of the new building, on Oct. 26 by **Frank Popoff**, BA'59, president and CEO of Dow. **Paul Grieco**, who acknowledged the gift, said he hopes Indiana high schools will install similar computers, which would permit faculty to communicate with high school chemistry teachers.



*Among the faculty and others attending the Dow Presentation Ceremony are, from left, Eyal Barash, student; Chris Kaslow; Dennis Peters; David Daleke; Robert Loomis, Dow; John Richardson; Kenneth Gros Louis, vice president/chancellor, IU Bloomington; Terry Clapacs, vice president facilities; Ken Caulton; and Frank Popoff, CEO, Dow.*

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