

# Chem-news

Alumni Newsletter Published by Department of Chemistry University of Kentucky



Spring 1980

## A Message from the Chairman

We again were pleased with the response of our alumni to our last newsletter. We hope you enjoy the news from your former classmates.

The fifth symposium on Chemistry and Molecular Biology supported by the endowment fund in memory of Anna S. Naff was held on April 23, 1979. The topic was "Interrupted Genes and RNA Splicing," presented by Benjamin Lewin, editor, *Cell*, and Dr. Phillip A. Sharp, Center for Cancer Research and Department of Biology, MIT. As usual, the program was a huge success. If you would like to be placed on the mailing list for future symposia please let us know, and we would appreciate any of your suggestions for topics and speakers for future programs.

### Undergrad Enrollment Constant

Our undergraduate enrollment remained about constant this year. We have a small increase in graduate enrollment which now stands at 50.

We received a request to include more pictures of the department and the University. Accordingly, we are including pictures of the faculty and other activities of the department and University.

We were sorry to learn of the death of Dr. Norman O. Long on April 21, 1977. Dr. Long was on our faculty in the late 1940s. He retired in 1975 after heading the Department of Chemistry, Central Methodist College, Fayette, Missouri for 10 years. Before that he taught at Indiana Institute of Technology, Ft. Wayne, Indiana, after serving in the Indonesian Program sponsored by the University of Kentucky.

Our faculty continues to be active in their teaching and research. An innovation in our undergraduate seminar program has been the addition of a poster session each spring for those students who are involved in undergraduate independent research. The



Dr. William F. Wagner

program has been well received by students and faculty. This year we have revised our general chemistry program by offering a single course for all students except those in our non-major cultural chemistry terminal course. Students who have not had high school chemistry or score low on entrance exams sign up for a remedial preparatory course that starts the last two-thirds of the semester. Those students who are failing the regular course at that time may drop back to the remedial course without penalty. We hope this program will salvage those who might otherwise fail our freshman courses.

### Excellent Research Support

Our active research program is reflected in the section on News from the Faculty. The faculty had 65 publications in the 1978 calendar year.

The University administration continues to give us excellent support in purchasing capital equipment. This year they have provided over \$700,000 for the purchase of a Varian XL-200 multinuclear NMR spec-

trometer system and a new high resolution mass spectrometer. The equipment should be installed by summer 1980.

We wish to thank those who have contributed funds to the Department of Chemistry. In addition to the alumni gifts, we have received substantial gifts this year to the Anna S. Naff Memorial Fund, and the Robert M. Boyer Fund. Grants were also received from the Ashland Oil Foundation for summer fellowships, Eastman Kodak for undergraduate scholarships, and unrestricted grants from Dow Corning Corporation and DuPont. These funds have been used to support our symposia, seminars, fellowships and awards described elsewhere. In addition, the funds are used to support the publication and mailing of this newsletter and other activities in support of our teaching and research programs.

### Donations Appreciated

If you wish to make contributions to the University to be used by the Department of Chemistry, please specify that the donation is for the Chemistry Development Fund for unrestricted use by the Department of Chemistry.

Donations may be sent to: **Director of Development / 204 Administration Building / University of Kentucky / Lexington, Kentucky 40506.**

If any of you are in a position to aid us in obtaining support from your company for graduate or undergraduate fellowships, or other support, we would appreciate your assistance in helping us to make the necessary contacts.

But most of all we appreciate hearing of your activities so that we can include them in our next newsletter. This helps all of us to keep in contact.

**William F. Wagner**  
Chairman





The 1979 chemistry faculty included, front row, from left: Dr. Merle D. Pattengill, Dr. James E. O'Reilly, Dr. Paul G. Sears, Dr. Carol P. Brock, Dr. Audrey Companion, Dr. Paul Corio, Dr. James Kincaid and Dr. Laren Tolbert. Second row, from left, Dr. Steven W. Yates, Dr. Walter T. Smith, Dr. Allan Butterfield, Dr. William Ehmann, Dr. Joe Wilson and Dr. Rodney Black. Third row, from left, Dr. Kurt Niedenzu, Dr. Robert Kiser, Dr. Douglas G. Naae, Dr. Donald Sands, Dr. John M. Patterson and Dr. Phillip Fanwick. Fourth row, from left, Dr. Ellis V. Brown, Dr. William K. Plucknett, Dr. William F. Wagner (chairman), Dr. Stanford L. Smith and Dr. Frank Wiseman.

## News from the Faculty

(Faculty News Continues on Pages 7 and 8)

**Tom Attig** presented papers on his research on organo-platinum complexes at the National ACS meeting in Miami Beach and the Central ACS meeting in Columbus.

**Carol Brock** gave an invited talk on The Influence of Crystal Packing on Molecular Conformation at the American Crystallographic Association meeting in Honolulu and presented a paper at the ACS/CSJ Chemical Congress meeting in Honolulu. She is continuing as chairman of the Public Information Committee and has been named the Program Chairman of the American Crystallographic Association 1980 Winter meeting. She has been appointed to the Public Education and Information Committee of the American Institute of Physics for a three-year term.

**Ellis Brown** presented talks on his research at the Southeast ACS meeting in Savannah and the Kentucky Academy of Science. He is serving as faculty adviser to our ACS Student Affiliates Chapter. He and his wife, Dorothy, took a quick tour of parts of Europe, accompanying their daughter who was on a tour with the Jessamine County High School Band.

**Allan Butterfield** was an invited speaker to discuss his research on membranes in relation to diseases such as Muscular Dystrophy, Huntington's disease and Friedreich's Ataxia at the following meetings: NIH In-

ternational Symposium on Huntington's disease in San Diego; Southeast Magnetu Resonance Society in Knoxville; and the Symposium on Normal and Abnormal Red Cell Membranes in Keystone, Colorado. He also presented a talk at the ACS meeting in Miami Beach. Allan received one of the \$500 University of Kentucky Research Foundation Faculty Research Awards for outstanding research the two preceding years. He organized and hosted the Hereditary Disease Foundation Workshop on Huntington's disease in May 1979 in Lexington which attracted about 20 scientists from the U.S. who were interested in discussing Allan's hypothesis on the association of the disease with a generalized cell membrane defect. His research is supported by grants from the Muscular Dystrophy Association, NIH, and L'Ass'n l'Ataxia de Friedreich.

**Audrey Companion** has completed the revision of her book "Chemical Binding" which was published this year. She was appointed by the President of the ACS to serve on the National Committee for the Conant Award for a three-year term. She is serving on the Committee for the selection of National Academy of Sciences—National Research Council Postdoctoral Fellowships and second councilor in COMP Division of the ACS. She presented a paper at the Midwest Theoretical Conference in 1978.

**Bill Ehmann** presented results of his research at the following meetings: Southeast ACS meeting in Savannah, Central Regional meeting in Columbus (invited symposium speaker) and the Kentucky Academy of Science. From NASA he received a citation of special recognition for his work as principal investigator in their Lunar Program, as part of the 10th anniversary celebration of the program. Bill also received a listing in Who's Who in the World. His research in neutron activation analysis is supported by grants from NIH and the Institute for Mining and Minerals Research.

**Bob Guthrie** has been appointed an associate member of the Commission on Nomenclature in Physical Organic Chemistry of the International Union of Pure and Applied Chemistry. He attended the 30th IUPAC General Assembly in Davos, Switzerland in September to present his mechanistic nomenclature system. He has received a grant from NSF to continue his research on Electron Transfer Reactions of Carbanions.

**Jim Holler** presented papers on his research at the 1979 Pittsburgh Conference as well as at Ball State University. He attended the Summer Symposium on Analytical Chemistry and the Gordon Research Conference on Analytical Chemistry. His research is supported by a grant from the Petroleum Research Fund.



# Ashland Oil Foundation Summer Fellowships

Five fellowships for the summer, 1979, were awarded to the following students: Mathilda Doorley, Daniel Goodin, James Huckaby, David Johnson, and Sarah Pirtle.

Ms. Doorley, a graduate student with a B.A. degree from William Paterson College of New Jersey worked with Dr. Thomas Attig on the interaction of methylenecyclopropane derivatives with metals.

Mr. Goodin, a graduate student with a B.S. degree from Memphis State University, and Mr. Johnson worked with Dr. William Ehmann in the application of neutron activation analysis to natural substances, including brain tissue, other biological materials, and oil shales.

Mr. Huckaby, an undergraduate chemistry major from Louisville, conducted research with Drs. Carolyn Brock and Thomas Attig in the X-ray crystallographic determinations of two isomers of palladium complexes.

Ms. Pirtle, a native of Louisville, received B.S. degrees in chemistry and mathematics from Ouachita Baptist University. With Dr. Douglas Naae, she studied the heats of fusion and X-ray crystal structures of complexes of fluorinated biphenyls and substituted biphenyls.

These five students and three faculty—Drs. Carol Brock, Doug Naae, and Bill



Those touring Ashland's Research and Development Laboratories—as a part of the Fellowship Program—included: Dr. Douglas Naae, back row, left, Dr. William Wagner, David Johnson and James Huckaby. In front are Mathilda Doorley, left, and Sarah Pirtle.

Wagner—as a part of the Fellowship Program, spent one day visiting the Ashland Petroleum Refinery in Ashland, Kentucky, and another day at the Ashland Chemical Company in Dublin, Ohio. Tours of the research laboratories and the Ashland refin-

ery, and discussions of the research programs were provided. Funds for the continuation of the program next summer have been provided by the Ashland Oil Foundation, through the efforts of its president, Paul Blazer.

## Student Awards

The following awards were made possible by gifts from alumni, friends and industry.

### UNDERGRADUATE

**American Institute of Chemists Award:** David A. Hrovat who previously has received the Meredith Award. David graduated with a B.S. degree and has entered graduate school at Columbia University.

**Robert M. Boyer Memorial Fund Awards,** consisting of \$25 gift certificates to John A. Fort, Ellena Jan Rose, Carolyn R. Sands. John received a B.A. degree and has been accepted by the University of Louisville Medical School. Jan Rose received a B.S. degree and has been accepted by the UK Medical School. Carolyn R. Sands received a B.A. degree and has entered the UK Graduate School in business administration. She is the daughter of Dr. Donald Sands in our department.

**Merck Award** of a copy of Merck Index was awarded to John W. Gilbert, a senior chem-

istry major. Last year he received the Analytical Chemistry Award.

**The Undergraduate Award in Analytical Chemistry** consisting of an 18-month subscription to *Analytical Chemistry*, sponsored by the Division of Analytical Chemistry of the A.C.S. was awarded to Charles M. Fort, a junior chemistry major.

**The Willard Riggs Meredith Award,** a \$75 check, was given to John M. Patterson Jr. who graduated with a B.S. degree and is attending the UK Medical School. He is the son of Dr. John Patterson in our department.

Two **CRC Handbook Awards** were made for outstanding performance in General Chemistry to Michael T. Vanover and John Conklin. One award was sponsored by the CRC Publishing Company and the other from the Departmental Development Fund.

### GRADUATE

Two awards of \$100 each were made to graduate students from our Development Fund—one to Peter Doorley for being the outstanding teaching assistant and the other to Jaweed Ashraf for excellence in research based on the past year.

Doorley, a native of New Jersey, received a B.A. degree from The William Paterson College of New Jersey in 1977, and entered our graduate program the fall semester 1977. He is a M.S. candidate working with Dr. Butterfield.

Mr. Ashraf received a bachelor's degree from Central College, Bangalore, India in 1973 and a master's degree from Indian Institute of Technology, Delhi, India. He entered our graduate program in the fall 1976 and is pursuing work toward a Ph.D. degree. He is working with Dr. Butterfield.



# Alumni News

**Thomas M. Barbara** (B.S. '76), a graduate student at Columbia University, received his M.S. in 1977.

**John O. Baxter** (B.S. '62) is director, Endocrine Research Division, University of California, San Francisco. He received an M.D. degree from Yale in 1966. Scientists working in his laboratory in collaboration with H. M. Goodman's laboratory have been very successful in work with recombinant DNA technology. They cloned the gene for growth hormone and placental lactogen and constructed an artificial gene such that bacteria did direct the synthesis of growth hormone (published in *Nature*, December 1978).

**Jerry E. Berger** (Ph.D. '59) is manager of Health-Safety-Environment Support of Shell Oil Company in Houston, Texas. He received a J.D. from the University of Houston in 1978.

**David Boyer** (M.S. '65) is a senior chemical engineer at Carolina Eastman Company in Columbia, S.C. He received a M.S. in Chemical Engineering from the University of Rochester. He is production manager for the polyester production plant.

**C. Kenneth Bjork** (Ph.D. '53) was named manager, International Patent Section of Dow Chemical Company's Patent Department. The section is responsible for securing and protecting all of Dow's foreign patents. For the past two years he has also been manager of Administrative Services, to institute computer and word processing services to that area. He has given his talk on "Patents for the Layman" to many groups, including a seminar in our Department.

**James C. W. Chien** (M.S. '51) is professor of Chemistry and professor of Polymer Science and Engineering, University of Massachusetts, Amherst. He received his Ph.D. from the University of Wisconsin, and has over a hundred publications and patents in enzymes, proteins, electron and magnetic resonance, free radical and polymer chemistry.

**Nam Sook Cho** (Ph.D. '77) was a post-doctoral fellow at the Department of Chemistry, University of Oregon, Eugene, and returned to Korea in March, 1979, to conduct research at the Korea Research Institute of Chemical Technology.

**Emerson G. Cobb** (M.S. '31) is professor emeritus, University of the Pacific, Stockton, California. He received a Ph.D. from the University of North Carolina in 1941 and a LHD from Union College (Ky.) in 1961. He retired as professor and chairman in June 1978.

**Carlton Colcord** (B.S. '56) The Louisville Courier-Journal had a feature in its magazine section on Carlton Colcord who has established a thriving vineyard on a 340-acre Bourbon County farm and opened the Colcord Winery in Paris, Kentucky. While the vineyards were maturing, he was a London-based (where he makes his home) marketing adviser to Kuwait petroleum interests. Before that he worked for Cal Tex—a joint undertaking of Standard Oil of California and Texas.

**Balfour Y. Connell** (B.S. Industrial Chemistry '38) is plant manager—Wabash Plant, General Tire and Rubber Co., Wabash, Indiana. His first job was with B. F. Goodrich in Akron, from which he resigned in 1952 to accept a position with Dryden Rubber Division at Keokirk, Iowa, as assistant technical director. In 1957 he moved to General Tire as technical director and was promoted to plant manager in April 1976. He plans early retirement in 1979. He would like to have more news from alumni who graduated from 1936 through 1939.

**Wayne L. Cook** is senior chemist with Velsicol Chemical Corporation, Ann Arbor, Michigan, as a result of a merger with Michigan Chemical Company. He is working on new compounds for flame retardants in the Organic Synthesis Group.

**Bobbie P. Cooper** (M.S. '65) is an assistant professor at Dalton Junior College, Dalton, Georgia.

**Thomas L. Dawson** (M.S. '58 Ph.D. '60) is a group leader and technology manager at Union Carbide Corporation, South Charleston, West Virginia, where he first joined after receiving his Ph.D. He was promoted to project scientist in 1966, research scientist in 1970, and to his present position in 1975.

**James J. Duffy** (Ph.D. '66) is technical manager R/D at Hooker Chemical Company, Niagara Falls.

**Jerome F. Eastham** (B.S. '48) is professor of chemistry, University of Tennessee, Knoxville. He received a Ph.D. from the University of California-Berkeley and a M.D. from the University of Tennessee.

**Benjamin M. Edwards** (B.A. '69) received a M.D. from West Virginia University in 1975, and completed his residency in Obstetrics and Gynecology at the Charleston Area Medical Center. He is now in private practice in Huntington, West Virginia.

**Earle C. Fowler** (B.S. '42) is professor of physics at Purdue University. He obtained a Professional Certificate in Meteorology from the University of Chicago in 1942, a M.A. in

Physics in 1947 and a Ph.D. in Physics in 1949 from Harvard University. He has been at Purdue since 1971 and served as head of the Department of Physics until July 1977. His research is in High Energy Physics and most recently (via sabbatical) he was involved in a study of the production of the newest particles ( $j/\psi$  and  $u$ ) in proton-proton collisions at the world's highest energy at the Intersection Storage Rings of the CERN Laboratory in Geneva, Switzerland.

**Robert E. Fraas** (Ph.D. '72) is associate professor of Forensic Science, College of Law Enforcement, Eastern Kentucky University, Richmond, and was responsible for developing the courses and curriculum for the program.

**Marshall G. Frazer** (Ph.D. '68) is assistant director Renin Laboratory, Division of Endocrinology, Department of Medicine, Vanderbilt University Medical Center, Nashville. His duties include supervision of radioimmunoassay analysis for hormones relating to hypertension. In 1977 he was one of the charter members of the National Academy of Clinical Biochemistry. The Frazers have a boy, Stanton, born in July, 1978.

**Frederick J. Giglia** (B.S. '69) received a doctorate in dental medicine in 1975 from the University of Louisville and presently is in private practice in Highland Heights, Kentucky. The Gignias have three daughters: Heather, Meredith and Caryn.

**John T. Gormley** (B.S. '71) is commercial development manager for Sun Chemical Corporation in Cincinnati, Ohio. He obtained a M.B.A. in 1978 from Xavier University, Cincinnati.

**Michael A. Hale** (B.S. '77) is a chemical laboratory analyst at International Fertilizer Development Center in Muscle Shoals, Alabama. He is working in the Agro-economic Division helping to develop more suitable phosphate fertilizers for developing countries in the tropics. In September, 1978, he married Karen E. Redick, a 1977 graduate of UK College of Nursing.

**Norman W. Hall** (B.S. Industrial Chemistry '48, M.S. '49) is executive assistant with Ashland Synthetic Fuels, Inc., Ashland, Kentucky. He is assigned to the \$250 million H-coal Pilot Project for conversion of coal to synthetic crude and fuel oil products. The plant is adjacent to Ashland Petroleum's Catlettsburg Refinery and is jointly funded by the Commonwealth of Kentucky, industry, and the Federal government.

**James R. Hamilton** (B.A. '29) received his M.D. from Johns Hopkins in 1927. He is a family physician in Mitchell, Indiana, and



is on the staff of Dunn Memorial Hospital in Bedford, Indiana. He has been active in community affairs serving as city health officer, chief-of-staff at the hospital, on the Salvation Army Board of Directors, as Advisory Commander for the American Legion, is a 40-year member of Rotary International, a Paul Harris Fellow Scottish Rite Mason, and was appointed a Kentucky Colonel by Gov. Breathitt and Sagamore of the Wabash by Gov. Branigan of Indiana.

**David A. Herman** (B.A. '77) is a product engineer at Universal Oil Products, Des Plaines, Illinois.

**James L. Haynes** (A.B. '62, M.D. '66) is assistant professor of surgery, U.S.C. School of Medicine in Cola, South Carolina. He entered the U.S. Army following medical school in 1966. After completing his residency in general surgery in San Francisco in 1973, he served for five years as a chief of

General Surgery at Moncrief Army Hospital in Fort Jackson, South Carolina, and assumed his present position in January 1979.

**Emil W. Johnson** (B.S. '30, M.S. '33) is a retired U.S. Army Major. He recently became the National Champion of Hardcourt Singles and Doubles-Senior, for those aged 70 and over. (Anyone wish to challenge him?)

**Robert F. Johnson** (B.S. '51) is professor in Department of Textiles and Clothing, University of Minnesota. He received a M.S. degree in Textile Chemistry from Georgia Institute of Technology and a Dr. Sc. Techn. (Organisch-Hochschule (Zurich)).

**William S. Johnson** (M.S. '66) is head of Agricultural Product Development for Eli Lilly and Co., Greenfield, Indiana.

**Janet (Hall) Jones** (B.A. '67) obtained an M.D. degree in 1971 and is an assistant professor of psychiatry and staff psychiatrist in

the Student Mental Health at UK.

**Lydia C. Kahnt** (B.S. Industrial Chemistry '26) retired as a medical technologist (A.S.C.P.) from Elyria Memorial Hospital Laboratory, Elyria, Ohio. She received a M.S. in biochemistry in 1928 from St. Louis University.

**Kim Kaub** (B.S. '77) is a chemist working in the Organic Research Group specializing in gas chromatographic analysis at P.P.G. Industries in Lake Charles, Louisiana.

**Mary T. Kinsley** (M.S. '50) is a chemist at Brookhaven National Laboratory, Upton, New York.

**Patricia A. Kumar** (M.S. '73) is a senior research chemist in the Analytical Science Department at International Paper Company, Tuxedo Park, New York.

**Chester Leach** (M.S. '77) is a chemist in Chemical Technical Services with Eli Lilly and Company, Clinton, Indiana.

**George R. Lester** (M.S. '56, Ph.D. '58) is director of material science UOP, Inc., Des Plaines, Illinois. He is directing research on automotive exhaust catalysis, solar energy conversion and storage, high efficiency heat exchange surfaces, fuel cell electrocatalysts, metallography and electron microscopy, and advanced materials for coal conversion processes. The Lesters have four children; the oldest, Julie, a sophomore in chemical engineering at Purdue.

**D. M. McKown** (Ph.D. '69) left the University of Missouri to join the U.S. Geological Survey, Federal Center, Denver, Colorado.

**Wayne L. Maddox** (B.S. '51) is a development staff member in Analytical Chemistry at Union Carbide Corporation in Oak Ridge. He received a M.S. in 1960 and Ph.D. in 1976 from the University of Tennessee.

**Jere M. Marrs** (B.S. '63) is materials scientist at Tektronix Laboratories in Beaverton, Oregon. He received a Ph.D. in physical chemistry from Florida State University in 1971. He has been studying the spectroscopy of electronic phosphor materials and recently has started work on electroluminescent films and low-temperature photoluminescence of III-V semiconductor materials.

**Laurel (Broge) Mauldin** (M.S. '75) taught high school physics and math in Taylor, Michigan, for three years. The Mauldins have a daughter, Elizabeth Laurel, born July 3, 1977. Her husband, Clyde, received a law degree in June 1978 and has joined the IRS in Detroit.

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## Special News from Our Alumni

Since some of the alumni asked for more information from older graduates, I thought it would be interesting to include in our newsletter, in the future, a special section on graduates from a given period. I wrote to all the alumni who graduated before 1920, but unfortunately have only one response, and that is from A. S. Behrman, who reports the following activities since graduating in 1914 "proudly waving my B.S. in Industrial Chemistry":

He taught chemistry, etc., at Sue Bennett Memorial School for a year, then spent two years in the Philippine Islands conducting surveys of water supplies. He was commissioned in the U.S. Army Reserve and returned to the U.S., transferring to the Sanitary Corps. He saw duty in the European theater to 1919, making surveys of public utilities after participating in all three American offensives. From 1919-42 he was chief chemist, later vice-president of International Filter Company, Chicago, which pioneered in equipment for water treatment. He returned to active duty with the Army 1942-44, stationed in Hawaii and Washington, D.C. From 1944-46 he was vice president, director of research of Velsicol Corporation, manufacturers of petrochemicals. Since 1947 he has been a chemical consultant and is still active in this area. He retired from the Army Reserve in 1963 with a rank of Colonel. He has published two books, about a hundred papers and 50-60 U.S. patents relating mostly to water treatment.

Next year we hope to include more detailed news from our graduates of the "twenties."

When we received a contribution in memory of Stephen H. Cook, who was not listed in our alumni file, we learned from his father, Colonel Byron T. Cook, the following information: Colonel Cook received an A.B. degree in Economics in 1940. He has completed 32 years of civil service with the Air Force and was awarded the Legion of Merit in 1974. His wife, Grace, a graduate of Wesleyan College and Mercer University, is Chairman of the English Department at Perry, Georgia, Junior High School. Their second son, Stephen, was a 1972 graduate of Vanderbilt with a major in Chemistry. They lost him to leukemia in 1975 while he was a teaching assistant in chemistry at Iowa State studying for a Ph.D. Because of their love for our University, they felt a memorial to Steve in his favorite field of endeavor would be appropriate. Colonel Cook included a reprint of a publication by Steve and Dr. John R. Van Wazer. We appreciate the Cooks' contribution and share their hope that the efforts in the field of chemistry will help deter or eliminate the dread disease, leukemia.



**Arthur D. Meyer** (B.S. '65), after receiving a M.D. degree, served two years at USPHS, Lexington, working with narcotic addicts, one year as general practitioner at the local HMO (Hunter Foundation) and two years as clinical director at Eastern State Hospital in Lexington. He is presently temporarily disabled due to partial blindness.

**Clifford D. Miller** (Ph.D. '70) is chairman, Division of Science and Technology, Mountain View College, Dallas, Texas. He is working on a NSF-funded Needs Assessment in chemistry for certain occupational programs.

**Stanley Mitchell** (Ph.D. '75) is department head, Department of Toxicology, Mason-Barron Laboratories, Chicago, Illinois.

**Clarence S. Moore, Jr.** (B.S. Industrial Chemistry, '34) retired in May, 1977, after more than 41 years with DuPont Company, 37 years of which were devoted to Water Engineering. Work during the last five years centered on a major textile fiber plant built for a corporation in Isfahan, Iran. This involved 82 days of in-the-air time and at least the same amount of time waiting in airports. Travel distance exceeded the equivalence of 14 times around the equator.

**Michael J. Moore** (B.S. '71) received a D.M.D. in 1975 from the UK College of Dentistry and is now in private practice in Lexington.

**Russell J. Moser** (Ph.D. '70) is director, Clinical Chemistry, St. Elizabeth Hospital Medical Center, Youngstown, Ohio. He has passed the National Registry in Clinical Chemistry. He and his wife, Donna, have two sons, Russell, 17, and Robert, 3.

**W. Duke Myers** (B.A. '64) is clinical associate professor of Medicine at Texas Tech School of Medicine in Lubbock. He received his M.D. from the University of Louisville in 1968. He resigned as Lt. Colonel and chief of Renal Section, Brooke Army Medical Center in September, 1978, to join Texas Tech and form the South Plains Nephrology Associates serving West Texas, Eastern New Mexico and Southwest Oklahoma. He co-authored a review on management of home dialysis patients (in September '78 issue of *Annals of Internal Medicine*). He has presented several papers at professional meetings and is serving as Diplomat of the American Board of Internal Medicine, Diplomat of the American Board of Nephrology, and Fellow American College of Physicians.

**R. A. Nadkarni** (Post-doctorate '67-'70) is senior chemist, Exxon Research and Engineering Company in Baytown, Texas. He is an associate editor of *Radiochemical and Radioanalytical Letters*.

**Wharton Nelson** (B.S. Industrial Chemistry '43) is a consulting engineer with Combustion Engineering, Inc., in Windson,

Connecticut.

**Charles B. Nickell** (B.S. '68) is area manager, Dearborn Chemical Division, Chemed Corporation, Cincinnati, Ohio. He received a M.B.A. from Xavier University in Cincinnati.

**M. D. Phelps, Jr.** (B.S. '44) received his M.D. from the University of Louisville in 1947, and for 20 years has been on the staff of Lahey Clinic Foundation in Massachusetts, specializing in cardiology and vascular disease.

**Glen G. Possley** (Ph.D. '69) was promoted to operations manager June 1, 1978, at Texas Instruments, in charge of Bipolar Memories and Microprocessors, which includes the direction of engineering, manufacturing, production control and process development for T.I.'s worldwide Bipolar Memory and Microprocessor business. He is once again unmarried and has custody of his two children.

**Beth E. Price** (M.S. '71) is research associate in Pharmacology with McNeil Laboratories in Ft. Washington, Pennsylvania.

**T. V. Rebagay** (Ph.D. '69) left the Institute of Mining and Minerals Research at UK to join Allied General Nuclear, Barnwell, South Carolina.

**Donald W. Riester** (B.S. Industrial Chemistry '37) retired after six years with the Food and Drug Administration as deputy director of the Bureau of Foods, and 35 years with American Can Company, as director R and D. He has moved from Washington, D.C., to California.

**Kenneth R. Rosenberg** (B.S. '61) received a M.D. from the University of Louisville in 1965 and is an anesthesiologist at St. Anthony's Hospital in Louisville.

**Melvin R. Sensmeier** (M.S. '73) was promoted to engineer III in Materials and Processes Engineering with Potter and Brumfield, Division of AMF in Princeton, Indiana. He recently had to take a nine-week sick leave for surgery. The company recently obtained a \$60,000 emission spectrograph with a laser source. Mel took a two-week emission spectroscopy course at Arizona State University in the summer of 1978.

**Ben Shely** (B.S. '51) is international marketing director for 3M Company in St. Paul, Minnesota. He received a M.S. degree from Indiana University. Past positions with 3M include research manager of Duplicating Products Division and technical director of the Industrial Graphics Division.

**Richard C. Sheriden** (M.S. '61) has been a research chemist since 1960 in the Division of Chemical Development with TVA in Muscle Shoals, Alabama. In 1976 he received the "Wilson Dam Award" given by the Wilson Dam Section of the ACS. He served as president of the TVA Association

of Professional Chemists and Chemical Engineers 1976, 1977. He received the "Award of Merit" in 1976 and 1977 from the Alabama Historical Commission for preservation work related to the history of chemistry.

**Donald Showalter** (Ph.D. '70) was promoted to associate professor with tenure at the University of Wisconsin at Stevens Point. He was elected outstanding teacher in the Department of Chemistry 1977-78.

**Judith Kay (York) Smith** (B.A. '66) is administrative assistant with PEDCo Environmental, Inc. in Durham, North Carolina. She received a M.A.T. in Chemistry in 1973 from Duke University.

**Jean Somerville** (B.S. '78) is a laboratory technologist in the department of biochemistry, University of Florida, Gainesville.

**William A. Speicher, Jr.** (B.S. '68) was promoted to manager, materials inspection for Philip Morris USA in Richmond, Virginia, from the position of domestic technical coordinator of manufacturing services. He joined Philip Morris in July, 1970, as group supervisor at the Louisville plant and transferred to manufacturing services in Richmond in 1978. Previously he worked with Olin Corporation and Catalysts and Chemicals, Inc. in Louisville. He and wife Susan have a daughter, Stephanie.

**H. Olin Spivey** (B.S. '54) is professor of biochemistry at Oklahoma State University, Stillwater. He received a Ph.D. from Harvard in 1962.

**Ronald S. Strange** (B.S. '65) is chairman, department of chemistry, Fairleigh Dickinson University, Madison, New Jersey (he has two years to go as chairman and wouldn't do it again even if they made him a Kentucky Colonel). He received a M.S. in 1967 and a Ph.D. in 1971 from the University of Illinois. He spent 1970-71 as an instructor at Illinois Institute of Technology and the first six months of 1979 on a sabbatical appointment with Prof. Jack Norton at Princeton.

**W. B. Stroube, Jr.** (Ph.D. '78) left Allied General Nuclear to join the U.S. Food and Drug Administration, NBS Reactro Buildings, Washington, D.C.

**William E. Siveeny** (B.S. Industrial Chemist '49) is director, Plastics Laboratory, Texas Eastman Company, Division of Eastman Kodak Company, in Longview, Texas.

**Jean (Erlandson) Thesis** (M.S. '74) is assistant manager of quality assurance with Medical Incorporated, Minneapolis, Minnesota. Her first child, Matthew Todd, was born in August, 1977.

**Alan P. Thio** (Ph.D. '61) is a regulatory specialist in the Division of Regulatory Services at the University of Kentucky.

**L. Michael Tumbrink** (B.S. '65) is Elastomers business production planner with



## News from the Faculty

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Dow Corning Corporation, Midland, Michigan. He received a M.B.A. from Central Michigan University, Mt. Pleasant, in 1974. In May 1978, he married Nancy Lee Habermehl, a 1974 graduate of Alma College, Michigan, who is a unit accountant for the Resins and Chemicals Business.

**Hermann José Wahner** (B.S. '74) is a senior lab technician in the College of Pharmacy at UK. He completed requirements for a B.S. in Accounting in the spring 1979.

**Ronald D. Weddle** (B.A. '69, M.D. '73) is a physician at the Family Medical Center in Bardstown, Kentucky, and is a Fellow in the American Academy of Family Practice.

**Manly M. Windsor** (M.S. '25) is retired from Research and Development at McGean Chemical Company, Cleveland, where he worked from 1945-68. Before that he was an instructor at MIT from 1925-34 where he received his Ph.D. in 1932. He worked for several years for Harshaw Chemical Company in Elyria, Ohio, and has served as a lecturer in Chemistry and Chemical Engineering in the Evenings Division at Cleveland State University.

**Ansel A. Worley** (B.S. Industrial Chemist '51) is senior engineer with Western Electric and was transferred from the Hawthorne Works to the Richmond, Virginia, works in June 1979. He is chairman of the ASTM 9.01 Electrical Insulating Varnishes, Powders, and Encapsulating Compounds and a U.S. Delegate to the International Electrochemical Commission (Technical Committee 15C).

**Donald G. Yopp** (B.A. '66) is Systems Supervisor with Dow Chemical in Strongsville, Ohio. He received a M.S. in Economics in 1968 from UK.

**James W. Young** (M.S. '70) is technical sales representative with Varian Associates and is completing requirements for a Ph.D. at the University of Cincinnati.

**Robert W. Young** (B.A. '69) is medical director of Cabin Creek Medical Center, Dawes, West Virginia. He received his M.D. from UK in 1973 and a M.P.H. in 1978 from University of Michigan School of Public Health.

### Recent Graduates

During the 1978-79 academic year, the Department awarded eight B.S., six B.A., 11 M.S., and one Ph.D. degrees.

Those receiving the B.S. degrees and their current status are: Michael Braden, Corydon, graduate school, Wayne State; Michael Collopy, Falmouth; Michael Fitzpatrick, Lexington, UK Medical School; David A. Hrovat, Danville, graduate school, Columbia University; Daniel P. Martone, Lexington, Graduate School, UK; John M. Patterson, Lexington, UK Medical School;

**Jim Kincaid** has received a grant from the Petroleum Research Corporation for Resonance Raman Studies of Hemoglobin Subunit Inequivalence, and the Research Corporation to study the Steric Control of Hemoglobin Function by Heme Substituents.

**Bob Kiser** was an ACS tour speaker on the Osage Circuit at several midwest sections in October, presenting his talk on Artificial Intelligence in Mass Spectral Interpretation. He also presented a paper at the American Society for Mass Spectrometry meeting in Seattle in May.

**Doug Naae** presented papers at the Fourth Winter Fluorine Conference in Daytona Beach and the Fifth International Symposium on the Organic Solid State at Brandeis University. He is a member of the Executive Committee of the Division of Fluorine Chemistry of the ACS.

**Kurt Niedenzu** has been honored as a University Research Professor for the 1979-80 academic year. He will be relieved of his teaching duties to spend full time on his research program in boron chemistry. He has made several trips to Germany and Poland where he has presented talks on his research and presented an invited lecture series at the Technical University at Wroclaw, Poland on NMR Studies on Boron Compounds and Boron-Nitrogen Ring Systems. His research has been supported by grants from the Tobacco and Health Research Institute. He continues his duties on the editorial staff of *Topics in Current Chemistry* and *Gmelin Handbuch der Anorganischen Chemie*, boron supplements.

**Merle Pattengill** presented a paper on Classical Trajectory Calculations of Orientation Effects and Differential Cross Sections for Rotationally Inelastic Ar-N<sub>2</sub> Scattering at the Eleventh Midwest Theoretical Chemistry Conference in Columbus. He is Chair-

man of the Lexington Section of the ACS for 1979-80.

**John Patterson** is coauthor with W. T. Smith on a paper, Pyrolysis of Labeled Malic Hydrazide, presented at the 32nd Tobacco Chemists Research Conference in Montreal. The research was supported by the Tobacco and Health Research Institute.

**Bill Plucknett** continues his duties as Director of General Chemistry and is active in University affairs, serving as chairman of the Rules Committee of the University Senate.

**Don Sands** continues half-time as Associate Dean of the College of Arts and Sciences, and was Acting Dean of the College the fall semester 1978. He was President of the University of Kentucky Chapter of Sigma Xi 1978-79.

**Paul Sears** continues as half-time assistant to President Singletary. He presented papers on his research at the Sixth International Conference on Nonaqueous Solutions in Waterloo, Ontario, Canada. He is serving on the Board of the UK Credit Union and the Board of Directors of the UK Athletics Association.

**Stan Smith** coauthored papers on Carbon-13 NMR Studies of Bisulfite Adducts of Cytidine-5' monophosphates and the 5-Halouridines at meetings of the American Pharmaceutical Association Academy of Sciences in Montreal in May, and Hollywood, Florida, in November. He presented a paper on T<sub>2</sub> Studies with the CFT-20 at the CFT-20 Users Conference at Kent State University. He and John Layton attended the 20th Experimental NMR Conference in Monterey, California, and spent a week working at Varian Associates in Berkeley after the meeting. He has received grants from Ashland Petroleum Company and Institute of Mining and Minerals Research in support of some of his NMR studies. He is also serving (please turn page)

Ellena J. Rose, Lexington, UK Medical School; Anita Wheeler, Elizabethtown, Graduate School, UK.

Those receiving the M.S. degree are: Chean (Edward) Cheng, Graduate School, chemical engineering, UK; Albert Filo, graduate school, Texas A&M; Arthur Fowler, teaching at Hiwassee College, Madisonville, Tennessee; Meledath Govindan, graduate school, University of Georgia; Wendell R. Guffey and Shuyen Lee, graduate school, Purdue; Li-Hsiang Ling, grad-

uate school, Food Sciences and Nutrition, Iowa State; Dennis Palmer, graduate school, Texas A&M; Joseph V. Schum, IBM, Lexington; Gene-Hua Sun, Graduate School, chemical engineering, UK; Kuei-Chin Yang, Graduate School, chemical engineering, UK.

Byron K. Christmas received his Ph.D. and is working at Celanese Corp. in Louisville.



# News from the Faculty

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ing as a consultant in C-13 NMR Spectroscopy for the Department of Chemistry, University of Louisville.

**Tom Smith** presented a paper coauthored with John Patterson on the Pyrolysis of Labeled Maleic Hydrazide at the 32nd Tobacco Chemists Research Conference in Montreal. He gave an invited lecture on Platinum(II) Complexes of N-Arylglycosides and Azo Compounds at the Regional Cancer Research Conference, Lexington, in April. He also presented a paper on the Synthesis and Polymerization of 6-Uracilmethyl Acrylate to the Kentucky Academy of Science meeting in Richmond. He is serving as President of the UK Chapter of Sigma Xi for 1979-80. He is a member of the Editorial Board of *Analytical Letters*, editor-at-large for Marcel Dekker, and has been appointed editor of a new journal *Analytical Chemistry of Fuels* tentatively scheduled for publication in 1980.

**Laren Tolbert** presented a paper on his research on Carbanion Photochemistry at the National ACS meeting in Miami and the Central Regional ACS meeting in Colum-



**Dr. Phillip E. Fanwick**

bus. He attended the Gordon Research Conference in July 1979. He was invited to present a lecture at the National ACS Symposium in Washington, D.C., in September 1979. The DOE awarded him a grant for his research on Electron Photoejection in Carbanions.

## New Faculty

Dr. Phillip E. Fanwick joined our faculty in August as an addition to our inorganic area. He received a B.S. degree from Tulane in 1969 and entered graduate school at Iowa State, receiving a M.S. degree in 1971. From 1971-75 he served as an officer in the U.S. Air Force. He returned to Iowa State and completed his Ph.D. degree in 1977, working under the direction of Don S. Martin. Phil then served two years as a postdoctoral research fellow working with F. A. Cotton at Texas A&M. He has 16 publications in his area of interest—physical characterization of inorganic compounds.

Department of Chemistry  
University of Kentucky 00551  
Lexington, Kentucky 40506

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