

Chem-news

Alumni Newsletter Published by Department of Chemistry University of Kentucky

Volume 1 Number 1 October 1978

A Message from the Chairman

I have just completed my second year of a four-year term as chairman. It has been a busy two years, learning all the new red tape of administration and trying to maintain the excellent standards set by the two past chairmen, Drs. Kiser and Ehmann.

We were pleased with the response of our alumni to our last newsletter and will include your comments in this letter.

The third and fourth symposia on Chemistry and Molecular Biology, supported by the endowment fund in memory of Anna S. Naff, as usual were the highlights of our program. The 1977 topic, "Studies on the Conformation of Peptides and Proteins in Solution," was presented by Nobel Laureate, Dr. Christian B. Anfinsen and Dr. Allan Schechter from the National Institutes of Health. The 1978 program was presented by Nobel Laureate, Dr. William N. Lipscomb and Dr. Thomas A. Steitz on "Regulation of Enzyme Activity." Dr. Lipscomb received his bachelor's degree from the University of Kentucky in 1941. Please send us your suggestions for speakers for further symposia.

We were sorry to lose the services of Dr. E.M. Hammaker who retired July 1, 1977. We still don't understand how he taught all his classes and met all the administrative deadlines and duties without a single complaint. In fact, we missed him so much we persuaded him to return to teach quantitative analysis the spring semester 1978 which gave us the opportunity to "pick his brains" on other matters while he was around. He and his wife, Evelyn, have enjoyed tours by freighter to Israel, the Caribbean, and South America.

Dr. Henry Bauer has resigned to accept the position of Dean of Arts and Sciences at Virginia Polytechnic Institute, effective July 1, 1978.

We have been pleased to have Dr. Martin



Nobel laureate William N. Lipscomb, who graduated from UK in 1941, visits with Dr. Marion B. Naff at the 1978 chemistry symposium.

Stiles as a visiting scholar the past year and he will continue this year. Dr. Stiles, on leave from the University of Michigan, is a former editor of the *Journal of the American Chemical Society*, and is continuing his writing and participation in our program as time permits.

Ashland Oil Foundation, through the efforts of their president, Paul Blazer, supported a graduate fellowship the past two years for a student seeking a M.S. degree in chemistry interested in industrial employment. The coming year they are generously supporting a program of four or five Ashland Oil Summer Fellowships to be split between undergraduate and graduate students to work on research projects under the direction of selected faculty members. The program also provides for visits by the participants to Ashland Oil plants in Ashland, Kentucky, and Columbus, Ohio, and funds for the Department to enrich its activities.

Several of you have requested information on activities of our faculty and information on the newer faculty we have added. We are including a section on some of our faculty

activities and will in the next few newsletters give brief biographies of our faculty, starting with the latest additions. Our faculty is active in teaching and research and is receiving increased support from outside funding. The University administration has been very helpful and generous in providing funds for equipment, particularly for our newer faculty for "start up" funds. We were especially pleased to receive a NSF grant for \$61,300 which was matched by the University to purchase a Enraf-Nonius CAD 4/F single crystal X-ray diffractometer. The proposal was submitted by Dr. Carolyn Brock with the assistance of Drs. Attig, Naae, and Sands. The University also provided funds to purchase a \$90,000 Varian E-109 Century Series ESR Spectrometer, \$18,000 for a scintillation counter for research primarily under the direction of Dr. Butterfield, and \$10,000 for a new atomic absorption spectrophotometer for Dr. O'Reilly. Dr. Kiser is preparing a proposal for a new mass spectrometer and Dr. S.L. Smith is preparing one for a high resolution super-conducting NMR. If we are successful in obtaining these instruments we should be extremely well equipped with major instruments for the immediate future.

The University was successful in obtaining funds to raise faculty and some staff salaries to a more competitive basis starting July 1. Our operating and travel budgets are still below the levels needed to meet the demands, and unrestricted funds to enrich our seminar program and other activities are very inadequate.

As usual, we encourage you to fill out the enclosed information sheet to keep us up to date on your activities and current address. We frequently get requests from your classmates for information and addresses, and we like to include alumni news in our letter.

We wish to thank those who have contributed funds through the Director of Development earmarked for the Chemistry Development Funds. These funds have been used to support publication and mailing of this newsletter, to furnish materials for our student Resource Room, seminar refreshments, and awards for outstanding graduate teaching assistants. These are activities for which state funds are not available, and other funds are limited especially since the Tennessee Eastman Fellowship, which provided us with some unrestricted funds, has not been renewed.

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 to the Chemistry Development Fund may be sent to:

**Director of Development
204 Administration Bldg.
University of Kentucky
Lexington, Kentucky 40506**

We also have the Robert M. Boyer Fund to be used to assist undergraduate students if

you would prefer to contribute to that fund in his memory.

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

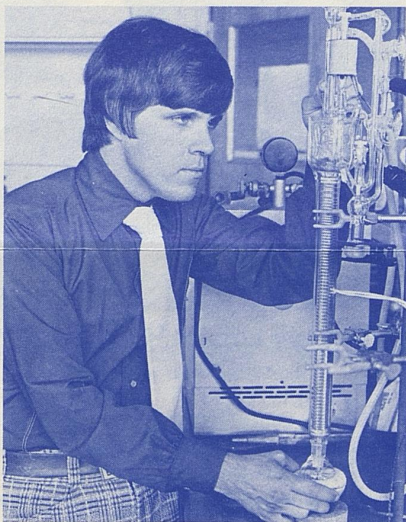
We are always pleased when you stop by to visit us when you are in Lexington. We appreciate your continuing interest in our Department.

William F. Wagner
Chairman

Faculty Profiles

Dr. James R. Kincaid will join our faculty this fall, replacing Dr. Bauer. He received his B.S. in 1970 from Xavier University, Cincinnati, O., and his Ph.D. in 1974 from Marquette University, Milwaukee, Wisc., under the direction of Professor Kazuo Nakamoto in molecular spectroscopy. In 1974 he accepted a position as Visiting Fellow at Princeton University, collaborating with Professor Thomas G. Spiro. In June 1975 he was granted a National Research Service Award from the National Cancer Institute on the merit of an original research proposal which he had submitted prior to joining Professor Spiro's group. His research at Princeton has focused on the application of the resonance raman technique to the study of heme proteins. He has eight publications and several others in progress. He plans to continue his research on the bioanalytical potential of raman spectroscopy, heme proteins, and porphyrins in cancer chemotherapy. He will be teaching primarily in the area of analytical chemistry.

Dr. Floyd J. (Jim) Holler joined our faculty in fall 1977 to replace Dr. Hamaker. Jim attended Presbyterian College, Clinton, S.C., 1964-65, and received his B.S. in Education with a chemistry major from Ball State University in 1968. He taught chemistry, physics, and mathematics in Western Wayne Schools, Cambridge City, Ind., from 1968-73 and received his M.S. in chemistry from Ball State in 1973. He continued graduate studies at Michigan State and received his Ph.D. in 1977 under the supervision of Drs. C.G. Enke and S.R. Crouch. Jim has six publications and several submitted. His area of research and



Laren M. Tolbert

teaching is in analytical chemistry. His principal interest is in the applications of computers to analytical techniques, such as reaction rate methods using stop flow systems. He has recently received a grant from the Petroleum Research Fund to support his research. Jim and his wife, Vicki, have three children.

Dr. Laren M. Tolbert joined us in fall 1976. He received his B.A. from Tulane University in 1970 and his Ph.D. from University of Wisconsin in 1974 working with Dr. H.E. Zimmerman. He spent two years on a postdoctoral appointment with Dr. R.B. Woodward at Harvard University before joining our faculty. Laren's research interests are in the fields of organic photoelectrochemistry, thermal and photochemical rearrangement of carbanions, photo-

chemical generation of reactive intermediates at low temperature, and information theory and spectroscopy. He has three publications and others in progress. He has received grants from the Research Corporation and the Petroleum Research Fund to support his research. Laren and his wife, Barbara, have two children.

Dr. Steven W. Yates joined our faculty in fall 1975. Steve received a B.S. in 1968 from the University of Missouri-Columbia, and a Ph.D. in 1973 from Purdue University under the direction of Prof. P.J. Daly. He was a postdoctoral fellow at Argonne National Laboratory from 1973-75. His research interests are primarily in the area of nuclear spectroscopy. He uses the facilities at Oak Ridge and the accelerator in the Department of Physics for his research which has been supported by a grant from the Research Corporation. He has about two dozen publications. His wife, Linda, is a chemist in the nutrition laboratory of the Animal Sciences Department.

Dr. Thomas G. Attig was added to the faculty in fall 1975. His B.A. was obtained in 1968 from DePauw University, Greencastle, Ind., and his Ph.D. from Ohio State University in 1973, under the direction of Prof. Andrew Wojcicki. From 1973-75 he was a postdoctoral fellow with Prof. H.C. Clark at the University of Western Ontario. Tom's research interest is in the chemistry of transition metal carbonyl complexes and the chemistry of organoplatinum complexes. He has published nine manuscripts in this area, and has received a grant from Research Corporation to support his research. Tom and his wife, Carol, have two children.

News from the Faculty

Our faculty continues to be active in professional activities—publishing articles and presenting papers at meetings, visiting neighboring colleges as part of our effort to recruit graduate students, and so on. A few items of special interest:

Tom Attig received a grant from Research Corporation to study the palladium (II) hydrides with unsaturated hydrocarbons.

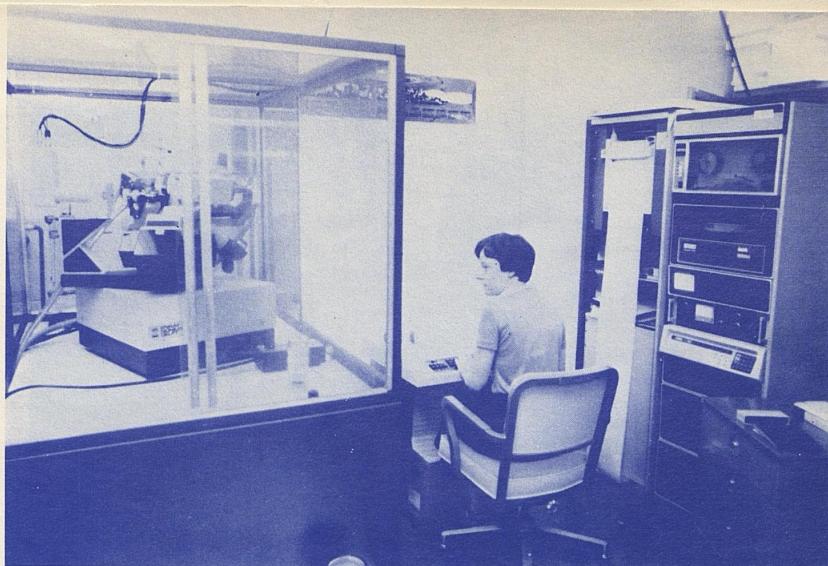
After some five years of preparation, the textbook edited by **Henry Bauer**, **Gary Christian**, and **Jim O'Reilly** was published in January 1978 by Allyn and Bacon and is entitled *Instrumental Analysis*.

Henry Bauer continues to teach about the Loch Ness Monsters as well as about chemistry. He has talked on "Resistance by Scientists to Scientific Discovery—the Case of the Loch Ness Monster" at Berea, East Tennessee State, ACS Ladies Night at Oklahoma, SE Regional ACS Student Affiliates Meeting at Hattiesburg, Miss. He prizes his recent election to Honorary Companion of the Loch Ness Association of Explorers.

Carol Brock has been appointed chairman of the Public Information Committee of the American Crystallographic Association; together with **Tom Attig**, **Doug Nae**, and **Don Sands** she was successful in getting a grant from NSF for purchase of an X-ray diffractometer.

Ellis Brown, who presumably is retired, was successful in getting a commitment to have the 1981 ACS Southeastern Regional Meeting in Lexington. He will serve as general chairman of the meeting. He presented papers at the New Orleans ACS meeting and the Southeast Regional meeting in Tampa, Fla. He also attended the Conference on Free Radicals in Aix-en-Provence, France.

Allan Butterfield's work continues to attract wide attention. The Muscular Dystrophy Association of America renewed his grant on "Protein-Protein and Protein-Lipid Interactions in Erythrocyte Membranes in Myotonic and Duchenne Muscular Dystrophy" and he received a large grant from NIH to support research on Membrane Alterations in Huntington's Disease. He has given many seminars around the country,



Dr. Carol P. Brock at the console of the new fully automated single crystal X-ray diffractometer.

and was invited to speak at international meetings in Leyden, Holland, and Manchester, England.

Audrey Companion will be busier than ever, having been appointed Director of Graduate Studies in July 1977. She serves on the advisory board of the ACS publication, *Chemistry*, as alternate councilor in COMP division of ACS, as chairman of the President's Advisory Committee on Computers in Research and Education, and fulfilled a term on the review panel for postdoctoral fellowships of the National Research Council. Audrey is also vice president of the Blue Grass Business and Professional Women's Club, and still has found time to prepare a second edition of her very successful book, *Chemical Bonding*.

Bill Ehmann was honored as University Research Professor for 1977-78 which

enabled him to spend full time on research. Among his many publications and speaking engagements were papers delivered at international meetings in Sydney, Australia, and in Cambridge, England. He has received a grant from NIH to support research in Brain Trace Element Analysis in Alzheimer's Disease and Aging.

Doug Nae chaired sessions at a national ACS meeting and at the Third Winter Fluorine Conference as well as read papers at several other meetings.

Kurt Niedenzu gave a plenary lecture at the First International Congress on Inorganic Heterocycles in Madrid, Spain, as well as a series of lectures at the Technical University of Wroclaw, Poland. His visits to the latter university has led to further cooperative enterprises including the admission of graduate students from Wroclaw and a possible exchange of faculty. His



Kurt Niedenzu, right



Allan Butterfield

Promotions



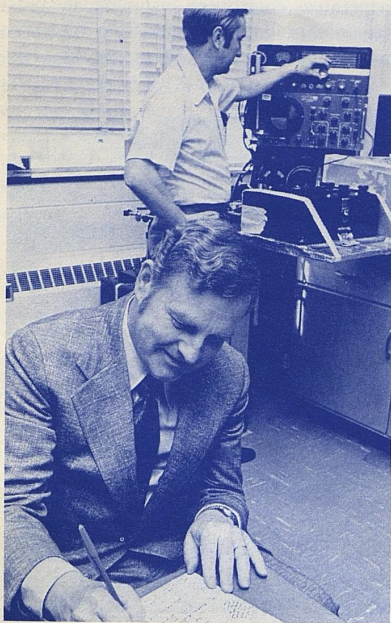
Audrey Companion and Steve Yates

grant from the Tobacco and Health Research Institute for research on pyridyl amino boranes has been renewed.

Jim O'Reilly has received two grants from the Institute for Mining and Minerals Research for analysis of whole coal by atomic absorption and emission techniques.

Don Sands continues to serve halftime as associate dean in the College of Arts and Sciences, and will be acting dean of the College the fall semester.

Paul Sears, at his own request, did not run for another term as a faculty member of the Board of Trustees. He continues to serve as a faculty assistant to the President and carries a full-time teaching load in our Department.

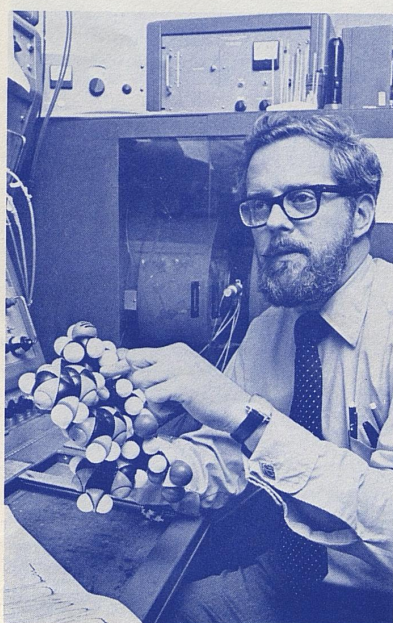


Paul Sears

Stan Smith was married in May 1977 to Dorothy Thompson. Among many talks and seminars he has given recently were those at the R & D Division of Ashland Petroleum Co., in which all members of the Organic Division participated.

Among many papers presented by **W.T. Smith** was one at the joint ACS-CIC meeting in Montreal.

Steve Yates has also given many seminars, co-authored a paper delivered at the International Conference on Nuclear Structure in Tokyo, and attended the Gordon Research Conference in Nuclear Chemistry.



Stan Smith

Dr. Robert D. Guthrie was promoted to full professor July 1, 1977. Bob joined our faculty in the fall of 1965. He received a B.A. from Oberlin College in 1959 and a Ph.D. from the University of Rochester in 1963. He was a post doctoral associate with Dr. D.J. Cram at UCLA from 1963-65. His research has been supported by grants from the Research Corporation and the National Science Foundation. He has 22 publications in the area of organic chemistry. His interests are primarily in mechanistic studies, and electron transfer in carbanion reactions.

Dr. Carolyn P. Brock was promoted to associate professor July 1, 1978. Carol joined our faculty in 1972 after receiving her Ph.D. degree from Northwestern University under the direction of Dr. J.A. Ibers. She graduated from Wellesley College with a B.A. in June 1968. Her research interests are in molecular geometry, crystal packing forces and solid state structure determination. She has received support from the Petroleum Research Fund, Oak Ridge Associated Universities, and recently was awarded a NSF equipment grant for an automated X-ray diffractometer. She has 12 publications and several others in process. Carol teaches courses in physical and general chemistry. Her husband, Louis, is an associate professor in Engineering Mechanics.

Dr. D. Allan Butterfield was promoted to associate professor with tenure July 1. Allan joined our faculty in the fall of 1975. He received a B.A. degree from the University of Maine in 1968 and a Ph.D. degree from Duke University in 1974 under the direction of Dr. D.B. Chesnut. He continued his research at Duke as a NIH postdoctoral Fellow with Dr. Chesnut and Dr. Stanley Appel. From 1968 to 1971 he served as a high school teacher in Mrewa, Rhodesia. His research centers on the biological applications of electron spin resonance and biophysical chemistry of membrane systems, particularly as applied to diseased states. He has received liberal funding for his research from the Research Corporation, Muscular Dystrophy Association and the NIH. He has authored 19 publications. Marcia, Allan's wife, assists him in his research. They have one child.



Alumni News

Robert H. Baker (B.S. '29, M.S. '31, Sc.D. '68; Dean Emeritus, Graduate School and Professor Emeritus of Chemistry, Northwestern University) is now living in Bowling Green, Ky. (705 McElroy Ave.). He reports doing some "pseudo-farming" on the property of his brother, **W. Marvin Baker**, B.S. '29, M.S. '31.

Eugene M. Barnes (B.S. '65) received his Ph.D. in biochemistry from Duke ('70) and is assistant professor, Biochemistry, at Baylor College of Medicine, Houston. He received a Research Career Development Award from NIH (1975-80).

Jerry E. Berger (M.S. '57, Ph.D. '59) is senior staff engineer with Shell Oil Co. in Houston, and is attending law school at night.

C. Kenneth Bjork (Ph.D. '53) is now manager, Bioproducts Section, Patent Department, Dow Chemical Co., Midland, Mich. He joined Dow as research chemist in 1953, subsequently transferred to the Patent Department, and has held his present position since 1970.

Michael R. Boyd (B.S. '69) is research associate in the laboratory of Chemical Pharmacology, NIH, Bethesda. He received M.D. and Ph.D. degrees from Vanderbilt in 1975.

Jack B. Boylan (B.S. '54) is manager, Graphic Arts Group, Emery Industries, Cincinnati. His son, Kevin, is currently in the UK College of Business and Economics preparing to study law.

Frank M. Brower (Ph.D. '54) is now manager of Environmental Services with Dow Chemical Co.

Willard B. Brown (Ph.D. '60) is Safeguards specialist with the U.S. Nuclear Regulatory Commission in Washington D.C.

Jerry F. Bryant (B.S. '65) is production manager with Amstar Corp., Dimmitt, Texas.

Robert D. Burrows (M.S. '55) is president of Farley Chemical and Solvent Co., Akron. His daughter, Betsy, enrolled at UK in fall 1976.

Mina L. (Koym) (Lingenfelter) Carnicom (B.S. '56) has been a staff member with Sandia Laboratories, Albuquerque, since graduating.

James C.W. Chien (M.S. '51) is professor of Chemistry and of Polymer Science and Engineering at University of Massachusetts, Amherst.

Balfour Y. Connell (B.S. '38) was recently promoted to plant manager, General Tire and Rubber Co., Wabash, Ind.

William R. Conway and **Robin L. Triplett** (both B.S. '74) were married last year. Both are employed in the Louisville area as chemists, Bill with the State Police Crime Lab.

Wayne L. Cook (Ph.D. '74) is senior research associate with Michigan Chemical Corp., Ann Arbor. His first child, Rebecca, was born in February 1976.

Bobbie P. Cooper (M.S. '65) is assistant professor of Chemistry at Dalton Junior College, and working toward an Ed.D at University of Georgia.

Richard H. Cox (Ph.D. '66) was associate professor of Chemistry, University of Georgia. He is now at National Institute of Environmental Health Sciences at Research Triangle Park, N.C.

Paul E. Cranley (M.S. '74) was promoted to research chemist at Dow Chemical Co. His daughter, Kristine Elizabeth, was born January 1977.

John David Craycraft (A.B. '62) received a Master of Divinity degree from Southern Baptist Theological Seminary in 1970. He is chaplain at the U.S. Coast Guard Training Center, Cape May, N.J.

Alvin Ray Crook (B.S. '72) is working in the Analytical Chemistry Department at Oak Ridge National Laboratories.

Thomas A. Dale II (B.A. '67, M.D. '72) is physician and assistant professor at the UK Medical Center.

William Lightfoot Dowden (A.B. '66, M.D. '70) is now in private practice as a plastic surgeon with Holloway, Playforth, Archer and Nighbert in Lexington.

James Duffy (Ph.D. '66) is manager, R & D, Hooker Chemicals and Plastics Corp., Niagara Falls.

Paul Marvin Dunn (B.S. '32, M.S. '38) retired in 1975 after working over 30 years in pharmaceutical sales with Pitman-Moore Co., later taken over by Dow. He is enjoying retirement by staying busy with Rotary and community affairs, and applying his sales expertise in an entirely new field for him, costume jewelry. His son, Phil, a graduate of UK and of the Culinary Institute of America, is chef at the Coach House in Lexington.

Ben M. Edwards (B.A. '69) took an M.D. at West Virginia University in 1975 and is now resident physician at Charleston Area Medical Center, W. Va.

Wolford M. Ewalt (M.S. '41) works in sales and marketing with Shepherd Chemical Co., Cincinnati.

Thomas Fangman (Ph.D. '69) has left the active ministry and works as science

coordinator for New Providence School District, N.J. He supervises the science program for the district and also teaches classes in the high school. In 1971 he married Paula Hunt (Ed.D '72).

Joseph M. Fisher (M.S. '66) is atomic absorption product specialist with Perkin Elmer in Cincinnati. He is currently president of the Ohio Valley Section of the Society for Applied Spectroscopy.

John O. Fitts (B.A. '66, M.D. Vanderbilt '70) spent three years as intern and resident in internal medicine and two years as fellow in cardiology before entering private practice at the Graves-Gilbert Clinic in Bowling Green.

John P. (Jack) Fletcher (B.S. '50, M.S. '52) is project scientist, R & D, Union Carbide Corp., S. Charleston, W. Va. He has been on the subcommittee on specifications for the "Food Chemical Codex" at NAS for five years. Jack continues to enjoy playing the trombone.

Anthony L. Gable (B.S. '65) took an M.B.A. at Loyola and is product manager for Foster Grant Co., Leominster, Mass. His wife Michele Cleveland (B.A. '65, UK; M.A. '76, Northeastern) is sales representative for Pitney Bowes. They have two children, Brian, 11, and Carrie, 6.

Amar N. Garg (Postdoctoral '74-76) is assistant professor of Chemistry at University of Udaipur, India 313001.

Charles A. Girard (M.S. '61, Ph.D. '70) is associate professor of Chemistry at Centre College. He spent most of 1976 at ORNL and is continuing cooperative research there while teaching full time at Centre.

Lowell D. Grinninger (Ph.D. '61), research associate with Chemical products Division, Chemetron Corp., Chicago, has been there for five years after a period of 12 years with U.S. Industrial Chemicals Co. He reports that his son L. David is "studying to become a chef, just like his father."

Marshall Beck Guthrie (B.S. '40) is director of Experimental Therapeutics with Smith, Kline Corp. in Philadelphia. He received an M.D. at University of Pennsylvania in 1943; holds diplomate of the American Board of Dermatology and Syphilology, is Fellow of American College of Physicians and Philadelphia College of Physicians, and writer-editor for *Consultant Medical* journal. He has been associate in dermatology at University of Pennsylvania Medical School since 1955, and Colonel, U.S. Army Medical Corps Reserve since 1967 (C.O., 361st R & D, Norristown). He is vice president and president-elect (1977-

78) of Pennsylvania Academy of Dermatology.

Robert Habermehl (B.S. '49) is regional sales manager for Agricultural Chemicals with BASF Wyandotte Corp. in Parsippany N.J.

Fred M. Hawkrige (Ph.D. '71) moved from the University of Southern Mississippi to Chemistry Department at Virginia Commonwealth University. He has a grant from the NSF and his work is proceeding on pace; soon to be aided by a "floppy disk for his mini."

Donald G. Hicks (M.S. '58), associate professor at Georgia State University, is spending the 1977-78 year working at UK with Prof. O'Reilly on methods for analysis of coal. He has won two national teaching awards, was twice authorized by ACS to write college chemistry texts, and has conducted two national ACS lecture tours.

Charles F. Hood (B.S. '48) is production foreman, Organic Division, with Emery Industries in Cincinnati.

Thomas McC. Hooker (B.S. '60) took an M.S. at University of Missouri-Kansas City, and Ph.D. at Duke, and is now associate professor of chemistry, University of California-Santa Barbara.

Lindsay Hough (B.S. '72) finished his Ph.D. program in pharmacology at University of Michigan, working in neurochemistry, and is now a postdoctoral fellow at Mt. Sinai.

Russell R. Isbrandt (Ph.D. '72) is product development specialist at 3M Co., St. Paul. The Isbrandts have just adopted a baby girl.

Emil W. Johnson (B.S. '30, M.S. '33) spent the last eight years of his active duty with the army in biochemical research at Ft. Detrick. After retirement as Major, he has been living in Florida, keeping fit by playing tennis and picking up some trophies at the same time. He was national singles champion, 60 and over, in 1968.

Joy (Mason) Johnson (A.B. '65) is in private practice as a radiologist in Santa Ana, Calif. (1603 N. Broadway). Her M.D. is also from UK.

Robert Z. Joseph (A.B. '68) obtained his doctorate in dental medicine in 1973 and certificate in oral and maxillofacial surgery in 1976. He is in private practice in Danville, Ky. (407 W. Broadway).

Lydia C. Kahnt (B.S. '26) worked for 42 years as medical technologist at Elmyra Memorial Hospital (Ohio). She has been living in Florida (1518 E. Jefferson, Orlando) since retiring in 1972.

Carl S. Kelley Jr. (B.S. '40) is chief process engineer for Phillips Petroleum Co. in Bartlesville, Okla. He took his Sc.D. in Chemical Engineering at MIT.

Thomas Keough (B.S. '71) obtained his M.S. and Ph.D. at Purdue (1976) and is now Senior Research Chemist with Hooker Chemicals and Plastics Corp., Grand Island, N.Y.

Athena Yonkos King (B.S. '49) received her M.D. at Women's Medical College of Pennsylvania in 1953. She was head of the Department of Radiology at Longview State Mental Hospital from 1958 to 1967 and has been assistant professor of radiology since that time at University of Cincinnati School of Medicine.

Wendell R. Kingslurk (B.S. '48) is in practice as a physician in Carlisle, Ky. (Route 2, Larkridge, 40211). His M.D. is from University of Michigan.

William H. Kipp (Ph.D. '69) is now analytical lab manager, Dyestuffs Division, Verona Division of Mobay Chemical Corp., Charleston, S.C.

Albert C. Kovelesky (Ph.D. '67) is assistant professor at Southwest State University, Marshall, Minn.

James A. Kuhlenschmidt (M.S. '72) is production supervisor for immunology manufacturing, Ames Co., Elkhart, Ind. He has one child, Kelly, 3.

Anand Kumar (M.S. '73) took his Ph.D. at University of Washington and was a consultant with Beckmann Instruments before joining Technicon (Tarrytown, N.Y.) in 1976 as R & D scientist.

Chin-Chan L. Lee (M.S. '74) took an M.S. in Clinical Chemistry at Cleveland State University and is now working at Cleveland Metropolitan General Hospital.

George Lester (Ph.D. '58) is working with Universal Oil Products in Chicago, according to Jerry E. Berger, who sees him occasionally.

George E. Lovelace (B.S. '78) is employed in the Pharmacy at the VA Hospital on Leestown Road in Lexington and plans to pursue a masters degree in Economics at UK. His senior research project won second place in the physical sciences section of UK's annual Oswald undergraduate research and creativity competition.

Connie Crittenden Lowry (A.B. '40) is physician and surgeon in Murray, Ky. (M.D. from Vanderbilt). He has been member of the City Council and mayor pro-tem, deputy governor of the Lions Club, and president of the Houston-McDermott Clinic.

Michael Lupin was appointed Section Leader in 1976 in R & D Department, Dead Sea Works, Beer-Sheva, Israel.

Maw-suen Ma (Ph.D. '76) is research associate in the Chemistry Department and the Radiation Center at Oregon State University.

Marilyn Magazin (B.A. '69) is graduate

student in the Department of Molecular Biology at University of Geneva, Switzerland.

Jere M. Marrs (B.S. '63) received Ph.D. at Florida State University; is now research chemist with Tektronix, Beaverton, Oregon.

Edward Martin (A.B. '57) took his M.D. from U of L in 1961; holds diplomate of American Board of Anesthesiology and is Fellow of American College of Anesthesiology; currently chief of Department of Anesthesiology at Kings Daughters Memorial Hospital, Frankfort, Ky.

William Taylor Mattingly (B.A. '69) is assistant resident in surgery at Vanderbilt University.

Gerald C. Maxwell (B.S. '77) is currently stationed at the Wright Patterson AFB, O., where he does work in technical intelligence. He plans to pursue further work in chemistry at Wright State University this fall.

James W. May Jr. (A.B. '65) received his M.D. from Northwestern in 1969. He interned in general and in plastic surgery at Massachusetts General Hospital, and then spent a year in Australia studying hand surgery and microvascular surgery on an Ella Lyman Cabot Fellowship. May has a 3-year-old daughter and younger son, and is now instructor in surgery at Harvard Medical School and assistant in surgery at Massachusetts General Hospital.

Clifford D. Miller (Ph.D. '70) is now chairman of the Division of Science and Technology at Mountain View College, Dallas.

H.E. Montgomery Jr. (Ph.D. '71) is Lieutenant in the U.S. Navy. After a tour of duty as assistant production engineering officer at Philadelphia Naval Shipyard, he is now at the Chemistry Department of the U.S. Naval Academy in Annapolis.

Clarence S. Moore Jr. (B.S. '34) is senior water consultant in the Engineering Service Division of E.I. du Pont de Nemours & Co., Wilmington.

David Moore (M.S. '72) is director of commercial products with Software Innovations Corp., Lexington.

John Morgan (Postdoctoral '68) is now with U.S. Geological Survey in Reston, Va.

Charles E. Morrell (B.S. '31, M.S. '32) recently retired from Exxon Research and Engineering Co. He does industrial consulting in the field of petrochemicals and is also active in senior citizens' organizations in Summit, N.J.

Russell J. Moser (Ph.D. '70) is director of clinical chemistry at St. Elizabeth Hospital Medical Center in Youngstown, O.

Richard C. Musick (B.S. '65, M.S. '68) is analytical chemist with General Electric Co. in Hudson Falls, N.Y.

Thomas B. Nantz (B.S. '37) is executive vice president and member of the board of directors of the B.F. Goodrich Co. He is a University of Kentucky Fellow, a board member of the University of Kentucky Development Foundation, and member of the board of directors of the Manufacturing Chemists Association.

James Nash (B.S. '67) is electrical engineer with 4950th Test Wing, Wright-Patterson Air Force Base. He flies with Advanced Range Instrumentation Aircraft, a group of eight aircraft used to obtain data from orbital and re-entry vehicles launched from Cape Canaveral and Vandenberg Air Force Base.

Wharton Nelson (B.S. '43) is consulting engineer with Combustion Engineering Inc., Windsor, Conn.; is active in field investigation of boiler explosions and invented a brightness meter for optimizing furnace control in Kraft chemical recovery furnace.

Dave Nickel (M.S. '74) took his Ph.D. at Indiana with double major in Chemistry and Higher Education Administration. He is now at Arkansas State University.

Dale Nutter is now with Mead Corp. in Chillicothe, O.

Stanley J. Opella (B.S. '69) took his Ph.D. at Stanford and is now assistant professor of chemistry at University of Pennsylvania.

H. Philip Orem (B.S. '32, M.S. '34) retired in 1975 from Jim Walter Corp. in Birmingham, Ala.; continues to do some consulting on process development and research.

Pete Panzera (B.S. '47, M.S. '49, Ph.D. '53), chairman of the Department of chemistry and Geology at Murray State University, was chosen as Outstanding Alumnus of Pikeville College for 1976.

George Pandygraft (Ph.D. '72) is now with the law firm of Baker and Daniels in Indianapolis.

Andrew C. Plasz (Ph.D. '70) has been promoted to head of the Analytical Development Section at Abbott Labs, Chicago.

Pamela Northington Porter (B.A. '67) received a Ph.D. in physiology from Duke in 1972; is now in the Department of Life Sciences at University of Nebraska.

James W. Poynter (B.S. '30) has retired after a career involved with research and development on materials for aircraft and aircraft engines.

Richard Preston (B.S. '69) took Ph.D. from Yale in 1972; was postdoctoral at Berkeley 1974-75; is now a J. Robert Oppenheimer Fellow at Los Alamos.

Barry N. Purdom (B.A. '64) graduated M.D. at University of Kentucky, finished his residency in internal medicine at UK in

1973, and has been in private practice in Lexington since 1974.

Ward Richard Rice (B.S. '72) graduated Ph.D. in biochemistry from University of Chicago in 1976; is now completing requirements for M.D.

Kenneth R. Rosenberg (B.A. '61), M.D. from University of Louisville, is now a partner in Medical Anesthesia Associates in Louisville.

Kitty K. Salter (B.A. '60) is head directress at Northern Kentucky Montessori Center, Ft. Mitchell. She holds an M.Ed. from Xavier University in Montessori Education.

Patricia M. Santoliquido (Ph.D. '71) is research associate in the Department of Geophysical Sciences at University of Chicago.

Larry Scheurich (B.A. '68, M.B.A. '78) is laboratory manager in the Chemistry Department at UK.

Melvin R. Sensmeier (M.S. '73) is working in the Materials and Process Engineering Department of Potter and Brumfield in Princeton, Indiana.

Robert W. Shier (A.B. '64, M.D. '68) is associate professor in the Department of Obstetrics and Gynecology at the University of Tennessee Center for Health Sciences in Memphis.

Robert S. Shipp (B.A. '69, M.D. '73) is chief resident in obstetrics and gynecology at the Good Samaritan Hospital in Cincinnati. He plans to practice in Kentucky upon completing his residency.

William A. Shire (B.S. '44) is plant manager for the Richardson Co., a detergent manufacturer in Chicago. He holds seven U.S. patents.

Donald L. Showalter (Ph.D. '70) is assistant professor of chemistry at the University of Wisconsin at Stevens Point.

William Hayden Smith (B.S. '62) took his Ph.D. at Princeton University and worked there on the observatory staff until the fall of 1976. He is now professor of Chemistry and Earth and Planetary Sciences at Washington University, St. Louis, and also holds a continuing visiting appointment at the Institute for Astronomy of the University of Hawaii where he conducts observational astronomy for several months of each year.

John B. Southard Jr. (B.A. '69) has just finished service as a Captain in the U.S. Air Force, acting as Assistant Staff Judge Advocate at Sheppard Technical Training Center in Texas. He obtained a J.D. from University of Louisville in 1972. He is now a partner in the new law firm of Holloway and Southard.

H. Olin Spivey (B.S. '54), Ph.D. from Harvard in 1962, is now professor of Biochemistry at Oklahoma State University.

Jack Steele (Ph.D. '68) had two years of postdoctoral work at Washington State University; is now associate professor of Chemistry at Albany State College in Georgia. He directs one of only nine B.S. programs in clinical chemistry in the U.S., and has been successful in getting NIH and NSF grants. Jack has three children, Craig, Rebecca, and Toby.

Connie S. Swager (B.S. '72) worked for several years as scientist and supervisor in quality control at Mead Johnson, Evansville, Ind.; is now a buyer in the purchasing department.

Stanley M. Tarter (B.S. '50) also holds a J.D. from University of Cincinnati and is international patent attorney with Monsanto Co. in St. Louis.

Jean Erlandson Theiss (M.S. '74) is working as analytical chemist with Medical Inc. in Minneapolis.

Alan P. Thio (Ph.D. '61) is senior chemical analyst in the Division of Regulatory Services at UK.

William Reid Thompson (B.S. '73) is studying for a Ph.D. in the Laboratory for Planetary Studies at Cornell University. He obtained an M.S. in biophysical chemistry in 1975. As a graduate teaching assistant he received the Du Pont Teaching Award from the Department of Chemistry and the Clark Teaching Award from the College of Arts and Sciences.

Donald Trimnell (Ph.D. '58) is research chemist at U.S.D.A. Northern Regional Lab in Peoria, Ill.

William L. Underwood (A.B. '60) took an M.D. from Vanderbilt in 1964; is now a pediatrician at the Lexington Clinic.

Alan G. Veith (B.S. '49) took an M.S. in polymer chemistry at University of Akron in 1956; is now senior research associate at B.F. Goodrich R & D Center in Brecksville, O. He is a member of several national committees in the field of rubber and polymers.

Hermann Jose Wahner (B.S. '74) is senior laboratory technician in the College of Pharmacy at UK.

Dewey E. Waters (M.S. '39) died in November 1975.

Gary R. Weisman (B.S. '71) received a Ph.D. from University of Wisconsin in 1976; was postdoctoral fellow at UCLA, and is now assistant professor at University of New Hampshire.

Walter M. Wharton (M.S. '52, Ph.D. '55) is chief of advanced technology in the Propulsion Directorate at Redstone Arsenal in Alabama.

Eugene D. Wilhoit (B.S. '53, Ph.D. '56) is general technical superintendent with Du Pont in Wilmington, N.C.

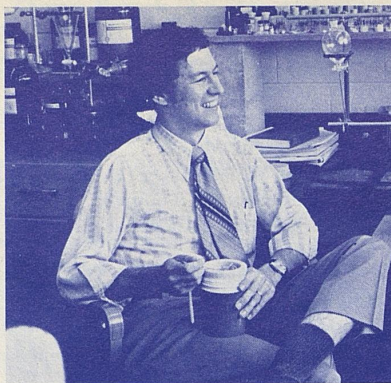
James W. Williams III (B.S. '72) ob-

tained a J.D. from UK in 1976; is now an attorney with Bleidth, Schroader and De Moisey in Louisville.

Ching Woo (Ph.D. '68) is associate professor of chemistry at University of Northern Iowa. He also works in the spectrochemical group at E.R.D.A. Ames Laboratory (full time during leave in 1977-78). He is married and has a young daughter, Lynn. His wife practices medicine.

Ansel Worley (B.S. '51) works with plastic insulating materials as senior development engineer with Western Electric in Chicago.

Lun-Shu Yeh (M.S. '72) received a Ph.D. from University of Texas; is now working



Robert Guthrie, promoted to full professor (see page 4)

with Allied Chemical Co. in Morristown, N.J.

Donald G. Yopp (A.B. '66, M.S. '68) is senior systems analyst with Dow Chemical Co. in Strongsville, O.

David W. Young (B.S. '31, M.S. '68) is consultant in the field of petrochemicals; holds a D.Sc. from Queens College, London, is president of David W. Young and Associates in Chicago.

James W. Young (M.S. '70) is technical representative for Waters Associates in Milford, Ma. He is completing Ph.D. at University of Cincinnati.

Howard K. Zimmerman (faculty '49) is professor of chemistry at University of the Pacific in Stocktown, Calif.

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