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Alumni Newsletter Published by Department of Chemistry University of Kentucky

Fall 1983

New Chairman—Robert D. Guthrie

We are pleased that Professor Robert D. Guthrie has accepted a four-year term as Chairman of the Department, effective July 1, 1983. Bob received his bachelor's degree from Oberlin College in 1958, and PhD from the University of Rochester in 1962. After a post-doctoral appointment at the University of California at Los Angeles 1963-64, he served as a lecturer there 1964-65. In 1965 he joined our faculty as an assistant professor and rose through the ranks to full professorship in 1977.

His research interests are in the analysis of the microenvironment of carbanions using electron transfer reactions and stereochemical methods. He has recently initiated a study of the cleavage reactions of radical ions. His research has been supported by several grants from the National Science Foundation. He has been a member of the IUPAC Commission on Nomenclature in Physical Organic Chemistry.

Dr. Robert D. Guthrie

A Message from the New Chairman

It seems appropriate that I include a few comments about our recent history and our plans for the future. As some of you may know we've been through a tumultuous year of trying to select a new chairperson. Both internal and external candidates were considered. We were forced to consider our goals, our resources and our priorities in considerably greater detail than we might have liked. Although the experience was somewhat painful I believe we now look at the Department and our various roles in its future operation with greater realism.

Those of you who know me will understand that I did not campaign for the chairmanship. Nevertheless, now that the dust has settled, it appears that I am 'it'. It will not be easy for me to meet the high standard set by Bill Wagner and by Joe Wilson but I plan to give my best effort. It will help that Bill continues to contribute in an advisory role and has agreed to serve as Coordinator of Alumni Affairs. Joe Wilson remains the Director of Graduate Studies where his conscientiousness is a model for us all. All members of the faculty and staff have promised me their full support. Administrative officers up to and including the Chancellor have indicated a willingness to help, within the limits of their resources. The next move is up to us!

What should we do? At the present time all twenty of our faculty members actively participate in both research and teaching. I believe it is crucial that each of us maintains this dual involvement. Professors who labor in the search for new knowledge regard knowledge as a living thing. Their lectures manifest a vitality similar to that of a proud parent describing a child. Conversely, researchers who teach are better able to see the empty spots in the framework of existing theory. Sometimes a freshman's naive 'Why?' or a sophomore's half-informed 'What if?' can lead down the path toward the clarification of old concepts and the development of new theories. For the next few years preservation of an atmosphere in which teaching and research can nurture each other is not going to be easy

Our biggest single problem will be establishing an adequate supply of capable graduate students. Graduate students are the lifeblood of our apprenticeship system of chemical education. When the level of graduate enrollment drops too low, research projects start to wither and die. Loss of revenue, faculty embitterment, professional stagnation and numerous other symptoms too unpleasant to mention can occur. We

must find more and better students. We will be fighting to raise stipends which at present are simply noncompetitive. We will make a strong recruiting push emphasizing the very real educational advantages of a small but active department.

Related problems arise from our being six faculty positions below our maximum number of four years ago. We could actually use about eight new people if we wished to optimize faculty teaching loads. We presently have the go-ahead to fill four positions over the next two years. You may have seen our recent ad in **C & E News**. Some truly impressive applications have been arriving. With luck I'll be singing the praises of our brilliant new superstars in the next issue of **Alumni News**.

In the past year there have been four major new external grants awarded to members of our faculty. This is the kind of progress we need to make in order to increase the viability of our program. The personnel money in these grants will provide research assistantships for approximately eight graduate students per year thus freeing a corresponding number of teaching assistantship positions and allowing program expansion. The supplies and equipment provided by these grants relieve pressure on our extremely restrictive departmental budget. Hopefully the savings can be used to encourage new, exciting and fundable research directions for other faculty members and thus increase our forward momentum.

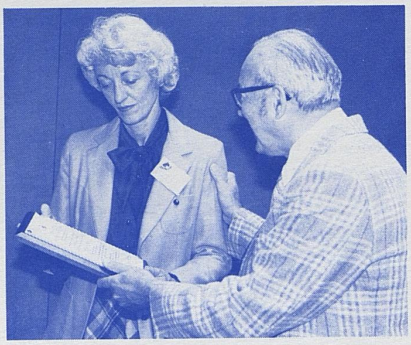
The number of B.S. chemistry majors in our department has been in a state of gradual decline for the last five to ten years. This trend must be reversed. I have long felt that our upper division undergraduate program in chemistry is as strong as any in the country but that we have not given enough attention to recruiting potential chemistry majors or to keeping the ones we have interested through their freshman and sophomore years. I also feel that we need to institute a separate course sequence for bright and interested freshmen and sophomores. This would allow us to give them the type of special attention which is not possible when dealing with the masses of semi-committed students typically enrolled in General and Organic Chemistry courses. In this way we could show them the fun of chemistry and sustain their involvement until they are ready for the research-oriented courses of their Junior and Senior years. I believe that part of the problem originates at the high school and junior high school levels. In two more years my three children will be finished with high school and it is my impression that their science courses, while informationally sound, failed to illustrate the excitement of scientific discovery or the satisfaction of adding pieces to the structure of human knowledge. During the next semester, the department will be considering ways in which we can help to improve the level of local high school education. This is a hot topic nationally and perhaps we can contribute in some small measure to a solution of the problem.

All of this is surely more than you really wanted to know about our problems and plans and probably too realistic for a message of this sort. I am essentially optimistic about our future. We have a capable and determined faculty. We are in an excellent position to make major improvements in our program. As the state economic picture improves over the next few years we will be ready to make our move.

COMMENTS FROM THE EDITOR

This issue of the newsletter covers events and information for the past two academic years 1981-82 and 1982-83. It has been a very busy two years with frustrations and achievements. First the bad news—then the good. As stated in the previous newsletter, the State of Kentucky has suffered a severe short fall in revenue and all state agencies including the University have suffered budget cuts. It has affected our travel budget and operating budget and capital equipment budget. Even worse is the freeze on vacant positions which now include six faculty positions this year owing to the retirements of Rodney Black, Bill Plucknett, and Bill Wagner, the transfer of Don Sands and Paul Sears to full time administrative positions, and the position vacated by Doug Naae. In addition we have lost the position of lecture-demonstrator, one electronics technician, one glassblower, and one storekeeper. We have been able to handle the teaching load by increasing the size of classes and employing temporary visiting faculty.

In spite of these difficulties the Department can be proud of its achievements the past two years. The Department was the principal source of support in organizing and sponsoring the thirty-third ACS Southeastern Regional Meeting here in Lexington November 4-6, 1981. Ellis Brown served as General Chairman of the meeting with all



Dr. Ellis Brown presented the ACS Southeastern Regional Award in High School Chemistry Teaching to Mrs. Dorothy S. Helms, China Grove, N.C. at the SERACS Meeting in Lexington November 5, 1981.

the faculty getting into the act. Two hundred and eighty five papers were presented at the meeting. Earlier concerns of an impending loss turned into a profit of over $8,000 for the meeting when many late registrants appeared.

The Analytical Division; Jim Holler, Jim Kincaid, Jim O'Reilly, and Bill Wagner, hosted the Midwest Universities Analytical Chemists Conference October 8-9, 1982. Over seventy faculty from midwest Universities and Colleges were in attendance to exchange informal reports on their current research.

The faculty published 21 articles in 1981 and 37 in 1982. More research proposals have been submitted and grants received from external sources as shown in the section on News from the Faculty and Staff.

The eighth and ninth symposia on Chemistry and Molecular Biology supported by the endowment fund in memory of Anna S. Naff again were highly successful. The eighth symposium on April 30, 1982 was on 'Artificial Photosynthesis' presented by Professor Melvin Calvin, University of California and Dr. Joseph J. Katz, Argonne National Laboratory. The ninth, on April 22, 1983 was on the 'Structure and Function of Cytochrome P-450' presented by Professors Irwin C. Gunsalus, University of Illinois; David H. Dolphin, University of British Columbia; John T. Groves, University of Michigan and Minor J. Coon, University of Michigan. We welcome any suggestions you have for topics and speakers for future symposia and hope you will be able to participate in these symposia.

The Student Affiliates of the ACS have been especially active the past two years. They raised funds by selling books donated by the faculty, selling doughnuts and other activities. They have used the funds to sponsor a competition each Spring for high school chemistry students. The students

come to the Department on a Saturday and take a comprehensive examination equivalent to a standardized final examination we administer to our general chemistry students. The top students are awarded cash prizes and receive credit for general chemistry if they register at the University of Kentucky. The students tour our facilities and the high school teachers attend a meeting to hear an address by a guest speaker. In 1982, 105 students participated, and there were 95 in 1983.

We are grateful for the contributions from our alumni to our Development Fund which has been especially valuable during our period of retrenchment. In addition to the regular alumni giving we have received substantial additions to the Anna S. Naff Endowment Fund, A. S. Behrman Fund, and Thomas B. Nantz Scholarship Fund. In addition we received a gift of $10,000 from Col. and Mrs. Byron T. Cook in memory of their son Stephen Harris Cook to provide summer research fellowships for undergraduate chemistry majors. A detailed description of the award appears in the section on New Awards.

Recipients of the various awards are listed elsewhere in this newsletter.

Our thanks go to those of you who respond to our request for news which I hope you enjoy in our Alumni News Section. We are especially pleased with the response from those who graduated 1930-34 to give us more detailed and up- dated information on their careers and reminiscences of their experiences at U.K.

We hope you will take time to send us 'news' on the enclosed form for use in our next newsletter. Again we thank our alumni and friends who have contributed funds to the Department, which have been used to support fellowships, equipment purchases, seminar speakers, and refreshments for our departmental seminars. 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 Department Development Fund for the unrestricted use by the Department of Chemistry.** Donations may be sent to the Director of Development, William B. Sturgill Development Building, University of Kentucky, Lexington, KY 40506.

William F. Wagner
Editor

Special News from the 1930-34 Alumni

Requests were sent to the alumni of 1930-34 to bring us up to date on their activities since graduation. We appreciate the responses from the following:

1930

John J. Owen received a B.A. degree from Transylvania in 1917. Additional technical studies were pursued at Ohio State, Wisconsin, and Kentucky, interspersed with regular teaching duties in junior colleges. U.K. awarded an M.S. degree in 1930 (Dr. Tuttle), and a Ph.D. in Organic Chemistry in 1934 (Dr. Barkenbus). The latter degree was the first Doctorate awarded by the Department of Chemistry. My first 'Postdoc' job at the University consisted of de-rusting and re-painting laboratory ring stands in the basement of the old chemistry building at .25 cents/hr. However, Dr. Tuttle's effectiveness in assisting graduate chemists to find jobs is well known, and I soon signed on as a research chemist with Exxon Research Development Laboratories, Baton Rouge, LA. Before leaving the campus it was my pleasure to represent the graduate chemistry students at Dr. Tuttle's retirement dinner (1934), to become a member of Sigma Xi, and to present a technical paper to the Lexington Section of the American Chemical Society. I am now a 50-year member of the A.C.S.

At Exxon, my reseach was largely concerned with petroleum and petrochemical processes including synthetic rubber, synthetic fuels, oxo alcohols, catalysts, and patent protection. Was made Section Head in 1937, and Administrative Assistant in 1950, and was occasional consultant to Petroleum Administration for Defense, and Oil Gas Division, Department of Interior, 1954-55. Retired from Exxon in 1959.

1931

Emerson Gilmore Cobb provided the following information: M.S., University of Kentucky, 1931; Ph.D., University of North Carolina, 1941; L.H.D. Union College (KY), 1961. Teacher, Kentucky High Schools, 1931-1940; Assistant Professor of Chemistry, Louisiana Polytechnic Institute, 1940-1942; Professor and Chair, Department of Chemistry, Dakota Wesley University, 1942-1948; Special Chemical Investigator, United Aircraft, Hartford, Connecticut, summers 1944 and 1945; Professor and Chair, Department of Chemistry, University of the Pacific, 1948-1978; Professor Emeritus, 1978—; Fulbright visiting lecturer in chemistry, University of Peshawar, Pakistan, 1961-1962; adviser and lecturer, summer study program in chemistry, Science Foundation of India, at Poona University, summer 1967; visiting professor and adviser in curricular structure, Universidad Autonomia de Baja California, Unidad Ciencias Marinas, Ensenada, Mexico. Member, American Chemical Society (councillor; member committee on chemical education, 1973-1978); Sigma Xi, Phi Kappa Phi, Alpha Epsilon Delta, Alpha Chi Sigma. Author, Science Series for Elementary Schools, 1946-1947. Research on polyhydroxy compounds, carcinogenic agents, chemical education. Inventor, impregnants for porous castings for airplane engines.

After retirement in 1978 - chemical consulting and consultant on chemical education and active in land development with special interest in developing sites for scientific enterprises such as transistor products.

Don B. Forman, who received his B.S. degree in 1931 and a M.S. degree from the University of Illinois, replied: Thank you for asking me to give you and my classmates an update on my career. I 'graduated' from duPont in 1971 after 33¡ years. Since then we have lived in either Wilmington or Newark, Delaware.

The years have been active with travel (worldwide), consulting, collecting and a 'return to school'. The latter has been at the Academy of Life Long Learning, University of Delaware, Division of Continuing Education. It is a great outlet for 'kids' who do not want to age. My wife belongs to the ALL and my dog, Fred, a dachshund, sometimes attends class. At ALL we run the show - teach and learn, e.g., take such courses as Calendars and Chronology, semantics or teach 'U.S. Vice Presidents:The Forgotten Men'. So, chemistry is somewhat in the background except for bourbonized C_2H_5OH.

I got a glimpse of the 'new' Kentucky campus about two years ago - quite a sight!

Henry T. Polk wrote: At the time of my graduation in 1931 from the University of Kentucky with a B.S. in Industrial Chemistry, good jobs were hard to find because of the Great Depression which made today's 'recession' seem mild by comparison. With the aid of a small grant, I did graduate work under Dr. Charles Barkenbus and received my M.S. in 1933. My first job after that was as an analytical chemist at the Kentucky Agricultural Experiment Station. Shortly, I was offered a graduate assistantship at Cornell University, receiving my Ph.D. in 1938.

While at Cornell I made the acquaintance of a number of Clemson College graduates who were in its graduate school. They painted such an attractive picture of Clemson and South Carolina, in general, that

General Chemistry laboratory in Kastle Hall, @ 1935. This picture was taken before the renovation in which the right-hand door of each desk was replaced by drawers.

when I was offered a job at Clemson's South Carolina Agricultural Experiment Station, I readily accepted. In a few years I transferred to the Chemistry Department and retired from Clemson University as Professor Emeritus of Chemistry in 1974.

Since retirement, along with my wife, I have been an active member of a gem and mineral club, have done a lot of fishing, gardening and spent much time in travelling around this part of the up-state which abounds with so many lakes, streams and forests and which make retirement in this section of the country so enjoyable.

David W. Young received membership in the Half-Century Club during a visit to the University in 1981. Following is a summary of the extensive resume of his career: After receiving his B.S. degree in 1931 he obtained a M.S. in chemistry from UK and a Doctor of Science degree from Lexington College and Conservatory (now Transylvania) in 1935. During this period he worked for the Kentucky Agricultural Experiment Station and served as an instructor in the Chemistry Department. He worked for General Chemical Company (Division of Allied Chemical Dye), 1936-40. From 1940-55 he served as Senior Research Chemist at Esso Research and Engineering Co. (Standard of New Jersey) where he concentrated heavily in polymerization of olefins and copolymers and new catalyst systems. He obtained over 100 patents in twelve years and played a vital role in the development of polybutene. He was a Senior Research Associate with Atlantic Richfield (formerly Sinclair) in Harvey, IL from 1955-71 where his responsibilities spanned a wide spectrum of chemical research and development. With R. B. MacMillin Associates 1971-73 he was involved with process and project engineering for chemical, electrochemical and related process industries. In 1973 he formed the David W. Young and Associates, Inc. to provide creative guidance in a variety of disciplines from product and market research through product and market development. He has also served as consultant to the Patent and Legal Department of Dow Chemical Co. 1968-70.

He has been an active member of the American Institute of Chemists, serving a two-year term as president 1971-73 and continues now as a Director at Large. In 1967 he received the national AIC Pioneering Award as and the Honor Scroll Award from the Chicago Chapter of AIC. In 1964 he received the award Inventor of the Year from the U.S. Commissioner of Patents and has over 500 U.S. and foreign patents. He was named a Kentucky Colonel for developing new industrial uses for Kentucky products. He has presented numerous seminars and lectures on broadscope of the chemical industry and is a life member of the Speaker's Bureau of the American Chemical Society. Membership in over fifteen technical societies is enjoyed by Dr. Young.

One of his most interesting hobbies is the study of violins and the woods, glues, varnishes, etc. used by master violin makers in Cremona, Italy. Many have enjoyed his lecture on Antonio Stradivari, Artist and Chemist, accompanied by his playing and displaying a fine example of the maker. His wife, Eloise received a B.A. in 1927 and a Ph.D. in 1935 in history from the University of Kentucky. Their daughter, Susan Young Carron, graduated with a B.S. in Education from UK in 1967 and a M.A. from Purdue in 1969. She has two children: J. P. Carron, Jr. and David Young Carron. Dr. Young is a member of the Flossmoor Community Church, and a 32nd degree Mason, Shriner Medina Temple, Chicago.

1932

Marvin Dunn after fifty years of graduation.

In September, 1927, I entered the University of Kentucky after completing Lexington High School at Fourth and North Limestone Streets. I was ill in my junior year and graduated in 1932 with a Bachelor of Science degree in Chemistry.

Chemistry storeroom in Experiment Station, @ 1900. Inventory was simpler then!

The Great Depression was in its third year and most graduates were unable to find work. I was fortunate to be able to continue living at home because my family had moved from Maysville to Lexington when I was five years old.

I had begun working at the Lexington Drug, which was next door to the Orpheum Theater, when I was in high school and most of my working time after graduation was there.

At the beginning of every semester after my freshman year I worked for Dr. John S. Chambers, Head of the Hygiene and Public Health Department. The University would secure the services of many Lexington medical doctors who needed University student help to do the paper work. The male students had physical examinations in the Armory and the female students were examined in the Hygiene and Public Health quarters which were on the first floor with the Psychology Department in the second floor quarters. Dr. Chambers always asked me to return each semester and to be in charge of the male student help. All freshman students were examined in one day.

In the Spring of 1935 Dr. Chambers offered me work on a twelve month basis in his department laboratory which was supervised by Dr. Brooks Hamilton. Beginning July 1, 1935, I worked a half-day for which I received $50.00 per month; in August I married the former Bettye Dean Coover and in September I began my graduate work under the direction of Dr. Charles Barkenbus. Credit requirements required two years for completion.

At this time Dr. Hamilton received a sabbatical leave and I was placed in charge of the laboratory on July 1, 1937. For this year of full-time work I received $125.00 per month, completed my thesis and earned a Master of Science Degree in Biochemistry in the summer of 1938.

A short time afterward Mr. Owen Keller, an instructor working under Mr. John Mitchell, submitted his resignation and Dr. Ralph Maxson asked me to take the instructorship. I accepted only after Dr. Maxson talked with the Head of the Chemistry Department of the University of Iowa and arranged for my release from an assistantship I had already accepted. This teaching work at UK was on a ten month basis for which I received $150.00 per month.

In the summer of 1939 I attended the University of Iowa and in the summer of 1940 I attended the University of Michigan taking medical school physiology.

By this time Mr. Mitchell and I had decided that the United States would soon be at war. Actually, unknown to me, he composed my letter of application to pharmaceutical companies for work in sales or production.

I accepted a sales position with the Pitman-Moore Company of Indianapolis and was sent to Cleveland in June 1941. Pearl Harbor was six months later and in June 1942 I was transferred to Akron to work northestern Ohio. Gasoline ration tickets were not always available for travelling positions and many days I travelled by bus.

I was drafted in December 1943 and was sent to Camp Sibert in Alabama for basic training. Instead of bivouac I was sent to Clerk School and later taught there until I was placed on duty at the Camp Butner Convalescent Hospital in North Carolina.

After I was discharged I returned to work for the Pitman-Moore Company. I was sent to Madisonville, Kentucky, and worked at various times in four states. In the early sixties the Dow Chemical Company purchased Pitman-Moore and I was retired at 65 years from Dow in April 1975. This completed 30 years of work in pharmaceutical sales.

For the past seven years I have had seasonal sales work and travel only in February and July and October. My philosophy of working after retiring is to enter a totally different field. My present work is jewelry and I am still travelling at 72 years.

Bettye and I have two children and two grandchildren.

I would be completely remiss if I did not write that I am totally indebted

to Dr. Chambers because he offered me the opportunity to return to school;

to Dr. Barkenbus because he was the best teacher I ever had; and

to Mr. Mitchell because he had great perceptions and realized my potential in pharmaceutical sales.

As a final note I was honored to serve as a casket bearer for both Dr. Barkenbus and Mr. Mitchell.

H. Philip Orem wrote the following letter: In answer to your letter of March 31, 1982, I am always glad to receive any information from the Department of Chemistry at the University of Kentucky. As you probably know, after fifty years since graduation, I now know no one connected with the department.

I graduated in 1932 with a Bachelor of Science in Industrial Chemistry. I was appointed graduate assistant in physical chemistry in 1933 under Dr. M. H. Bedford and received a Master of Science degree in 1934 doing my thesis in organic chemistry under Dr. Charles Barkenbus. I received a scholarship in 1934 at Penn State to do organic research under Dr. Frank Whitmore.

I took a position in the research department of The Calco Chemical Co. in 1937. I remained there thirteen years doing research and process development in azo dyes and aromatic intermediates, advancing to assistant chief chemist and technical supervisor of the azo dye and intermeidate shop.

In 1950 I left Calco which had become a division of the American Cyanamide Co. I took a job that year with the Sloss-Sheffield Steel and Iron Co. in Birmingham, Alabama in the research department. This company merged with United States Pipe and Foundry Co. and they in turn merged with the Jim Walter Co. I remained in this employ for twenty-five years, retiring in 1975 as group leader of the research department. During this employment, I have my name on two publications, and twenty-one patents assigned to the various companies.

I am a member of Alpha Chi Sigma, Sigma Xi, Fellow of the American Institute of Chemists, Life member and holder of 50 year certificate of the American Chemical Society and Life Member of the American Institute of Chemical Engineers. I have held offices in both local sections of the American Chemical Society and the American Institute of Chemical Engineers.

I and my wife Lydia Cleek Orem (Kentucky 1931) live at 5240 Clairmont Avenue, Birmingham, Alabama. Since retirement, I have done limited consulting in the field of organic chemicals manufacturing.

1933

Stuart Schott, Technical and Research Management Consultant, replied to our request: As you might imagine, I am now retired and living in Florida where my two daughters and four grandchildren are located.

Attached is a resume which covers most of the items of interest since leaving Lexington.

I've had a long, enjoyable and successful career as a scientist and as technical executive. I look back at it with a great deal of personal satisfaction.

1/74-1979	Adjunct Professor, Dept. of Marine Science, University of South Florida.
1/77-1979	Technical Consultant, Bayfront Medical Center, St. Petersburg, Florida.
1/46-3/73	Vice-President Research, U.S.I. Chemicals Co. (National Distillers Chemical Co.)

1. Directed expansion of U.S.I. Research Labs from old farmhouse to a modern complex of laboratoires, pilot plant, and most important, competent and creative personnel; latter from 12 to 200-275, about 50% professional. Built up competent groups in basic and applied research in organic, instrumental, polymer structure, etc. Handled liaison with other company departments. Annual budget 4 to 5 million dollars.

2. Technical expertise (including patent positions) in areas of petrochemicals, polyethylene, vinyl acetate,titanium and zirconium metals. Chemical Division of National Distillers and Chemical Corp. now accounts for over 70% of total profits. Also directed Polymer Service Laboratory, at Tuscola, Illinois, which handled technical service for polyethylene. Budget about 3 million dollars. Technical Developments from these labs were responsible for about a billion dollars in plant construction and to the Chemical Division's preeminent position in polyethylene technology.

Have about 37 U.S. Patents in the fields mentioned above, as well as those in missile fuels, and some in fields of classified government research.

1942-1946: Major, Sanitary Corps, U.S. Army, Asst. Chief of Laboratory Service, 49th General Hospital (U.S.A. and New Guinea) and Thayer General Hospital, Nashville, Tenn.

1939-1942: Chemist, Stream Pollution Investigations Station, U.S. Public Health Service, Cincinnati, Ohio. (Now Robert A. Taft, Sanitary Engineering Center). Worked at lab as well as being in charge of mobile lab doing various analyses, chemical and bacteriological, on Ohio River and tributaries.

1937-1939: Chemist, Lemanco Labs., Newport, KY. Manufacture of fine organic chemicals.

B.S.	University of Kentucky	1933
M.A.	University of Cincinnati	1934
Ph.D.	University of Cincinnati	1936

1934

Clarence Moore responded: Your request for a few comments from 1930-1934 graduates prompts my reference to the group picture in the fall 1981 issue of 'Chem-news'. As a 1934 graduate (B.S. in Ind. Chem.) I have numerous memories related to several of the staff in the picture.

Doubtless I derived some of my work habits from the 4 years of close association in the department. Perhaps the least desirable one which I have struggled with over the years was 'encouraged' by one practiced by Dr. Bedford. He was a good instructor and gave us much practical guidance but he 'refused' to file any of his papers in a conventional manner or 'orderly' fashion. His desk top was his file cabinet and amazingly (at that period in my training) he could find material quickly even though it had not been referred to for a year or so and was '50 sheets' down in a particular pile. Always I have had to fight the tendency to play hide and seek on top of my desk rather than to file in the normal manner. Also I have often recalled the patience and support provided by Dr. Bedford as we struggled in his labs to make various pieces of apparatus. i.e. pH electrodes - it was long before Beckmann electrodes were available.

From the wide variety of course work included in the degree program only one class was ultimately related directly to the field where I spent 35 years of my 41+ years of working in industry. The course was a 1 semester, 4 hour on Saturday morning lab meeting titled 'Water Analysis' which Dr. Stewart presided over. In 1940 I was assigned to work in the water engineering field where I continued until retirement in 1977.

This is not to ignore the value of the breadth and scope of the curriculum for the Industrial Chemistry degree as developed by Dr. Tuttle, a nearby neighbor to my home on Rose Street, a couple of blocks from the campus. It was a good preparation for my ultimate career which embraced many different disciplines, i.e. chemistry, engineering, metallurgy, geology and communication.

Mr. Mitchell was the freshman instructor who started with a group of about 30 and judicially pared it down to less than one-half in number by spring. Of the large freshman group only 5 completed the 4 year course. A number of those shifting to other work were thankful to Mr. Mitchell for his frank guidance early on.

Those finishing as I recall were Ayres, Akin, Scott, Moore and a girl whose first name was Barbara (Ed: last name Alexander).

I was not student enough to be included in the 'annual' offer to attend MIT for advanced chemical engineering which was available through Dr. McAdams' friendship and relations with Dr. Tuttle. Rather I gained an M.S. Chemical Engineering, in 1936 from the University of Michigan - in those days the arch rival of MIT's Chemical Engineering school. Both had top notch faculties.

From Ann Arbor I came east to Wilmington, Delaware as a 'cowboy' in the semi-works research group of the Ammonia Dept. at DuPont's Experimental Station. My first assignment was nurse-maid to a small adiponitrile unit on the midnight shift. Nylon research was in full swing at that time. It was here that my practical training at Kentucky and Michigan began to pay off. At least I knew enough not to be duped into going to the machine shop for a spool of pipe thread!

In 1938-39 I had an exposure to sales and sales service work which was not really my forte. I was too willing to agree with a potential customer's position that he probably was right in not needing 'our' product.

On returning to technical work I was assigned to the Process Section at the Belle Works of DuPont near Charleston, West Virginia. I joined a group under the leadership of a chap who had earlier worked in the water conditioning field and was desirous of having someone he could train to look after the plant's water conditioning need. So with the background of Dr. Stewart's Saturday morning lab as 'formal' training I began a career in Water Engineering.

From Belle Works I transferred to the Morgantown Ordinance Works to assist with their numerous water conditioning efforts. Acid mine drainage was creating river water low pH conditions, i.e. 3 to 4.5 for extended periods. Once-through use of the river water for cooling exposed mild steel equipment to the low pH and caused premature failures. In other sectors of the plant served by recir-

U.K.'s chemistry laboratory in 1889 boasted space for 44 students!

culated cooling tower water the 'hard' river water quickly concentrated and deposited dense layers of sulfate/carbonate type scale on the heat transfer surfaces.

Despite a 6 day work week I found time to visit Washington, D.C. and successfully completed a project of great personal importance. Louise Watkins and I were married in June of 1943 and she joined me in Morgantown after resigning from her position at the Pentagon.

In 1944 I was offered a transfer to the Water and Waste Group in the Industrial Engineering Division of DuPont's Engineering Dept. in Wilmington. In 1977 I retired from this group as a Senior Consultant.

Travel to plant sites was a major requirement of the 'in-house' consulting work. In mid-1940's use of trains was the norm. Being called by a forgetful porter as the train was slowing down for your stop at 6 AM would result in a 'thrown off' state of affairs! I'll take a multi-hour wait in an airport (which often occurred) in preference to those train experiences.

In some 50,000 miles of train travel I was in one train wreck but fortunately was only shaken up. However, I was even more fortunate with my travel in airplanes. The equipment did not experience even a minor failure in flight for the 500,000 miles I was a passenger.

Beginning in 1965 I spent more and more time outside of the U.S. My first trip was to Buenos Aires - a process water quality problem with strong 'people' implications rather than technical complications. It was a 'positive' experience and allayed many of my concerns about foreign travel. Next was North Ireland, Germany, the Netherlands and France. The last trip was to Isfahan, Iran. Water conditioning of available supplies for process, boiler feed, cooling and human consumption was recommended and monitored. In addition a sizeable number of water wells were drilled at various locations. The two largest wells had a capacity of 3,500 gpm for a single screen vertical shaft structure in eastern Iowa and over 5,000 gpm for a collector with horizontal, lateral screens built near Isfaham.

As if the business travel was not enough we have travelled as a family of 5 to the 48 states, Canada and Mexico plus Great Britain, Norway, Sweden, Denmark, Germany, Austria, Switzerland, Italy, France, Belgium, The Netherlands, Spain, Morocco, Greece and Turkey to the east and S. Korea, Japan and Hawaii to the west! Even so there are numerous places we still have on our 'go-see' list.

Retirement has not involved any lessening of activity levels, just new areas of interest and catch up on things neglected for lack of time in the past such a maintenance here at home. Currently I have several responsibilities in the church area - local and regional which occupy several days a month. These are interspersed with gardening, photography and stained glass crafting.

This month bring my 3 score and 10 milestone and I am looking forward to a 4 score and beyond. There is still much to do and see here and abroad and Louise and I are often citing the fact there is just not enough time in each day for all we would like to accomplish albeit we must recognize we require longer times for our projects - our pace has slowed!

In conclusion perhaps you can use some of the foregoing to fill in and a small contribution check is enclosed for use as your needs for a program support may evolve.

ALUMNI NEWS

Edward Cecil Tarpley, B.S. in industrial chemistry in 1926 is a retired research chemist from the U.S. Bureau of Mines in Pittsburgh, PA. He has moved to a full service retirement community known as Majestic Towers at 1255 Pasadena, Ave. S., St. Petersburg, FL, where they have a beautiful view of the Gulf of Mexico and beaches from the twenty-first floor.

Alex Black, B.A., 1929 is Professor Emeritus of Animal Nutrition, The Pennsylvania State University. He especially enjoyed the article in the last newsletter written by Bob Baker as they used to work side by side in the laboratory.

Lewis C. Dawson, B.S. in industrial chemistry, 1937, accepted a position with Standard Oil New Jersey, now Exxon, in Aruba, NWI. He remained there through the war years and witnessed the shelling of the island. After the war he transferred to Baton Rouge, LA. In 1958 he went to Cuba as technical advisor and observed Castro's accendency to power. After retirement he and his wife, Mary Bruce Daily, U.K. 1930, moved to Sun City AZ. He wrote the following letter in response to our last newsletter: 'I enjoyed tremendously the Fall 1981 addition of **Chem-News.** Sarah Thorn Mitchell '25 inspired me to major in chemistry in her class at Henry Clay High. Charles (Chuck) Randall '36, his brother Dave '37 and their father, Professor Randall, and I formed a handful foursome for many years. Tom Nantz '37 was a classmate of mine, as was Don Riester '37, with whom I used to translate German technical articles. I had classes under all the faculty members pictured in this edition.

Lewis Dodson Etherington '38 and I made a trip to Europe in 1978, reservations for first night only. Lewis Olen White '38 worked very closely with me in Baton Rouge.

David L. Flanders, B.S. in industrial chemistry, 1937, retired January 31, 1981 from B. F. Goodrich Co., Akron, OH, where he started work on August 30, 1937. He received a M.S. in Business Administration from the University of Akron and participated in a one-semester program for Senior Executives at MIT. In his career at Goodrich, he spent 4 years in research as a chemical engineer in synthetic polymers, 6 years in polymers, chemicals, textiles evaluation and raw materials development for rubber products, and 33 years in management of various areas of major raw materials procurement and general purchasing administration.

Marshall Beck Guthrie, B.S. 1940, received a M.D. from the University of Pennsylvania in 1943 and Diplomate of the American Board of Dermatology in 1950. He is Director of Safety and Therapeutics at Smith Kline Corp. in Philadelphia, PA. He holds the rank of Colonel, United States Army Medical Corps Reserve and was awarded the Meritorious Service Medal in August 1977. He was president of the Pennsylvania Academy of Dermatology 1977-78.

Murrell L. Salutsky, B.S., 1944, received a Ph.D. in 1950 from Michigan State University He is Group Vice-president of Dearborn Chemical Division of W. R. Grace Co. in Lake Zurich, IL.

Richard H. Hunt, B.S. in industrial chemistry, 1945, received a M.S. in 1947, and Ph.D. in 1949 from the University of Wisconsin in organic chemistry. He joined Shell Oil Co. in 1949 and has been with the organization in Houston ever since. Assignments have included 3 and 1/2 months at the Royal Dutch/Shell laboratories in Amsterdam (1957-8) and numerous other visits to Shell's U.S. and European facilities. He is married to Martha Wilkerson of Port Naches, TX, a graduate of the University of Texas at Austin. Their two sons are grown - neither became a chemist, although the younger is in the field of biology, and the older in computer programming.

Robert Habermehl, B.S., 1949, is a consultant in catalyst technology with Catalyst Service Inc., Shelbyville, KY, which he owns since January 1980. He has over 30 years experience in the catalyst business, with Girdler Corp., Catalyst and Chemicals, Inc., BASF and Catalyst Services.

Dr. Gerald W. Recktenwald, B.S. 1949, M.S. 1950, is manager of R D Facilities at Air Products and Chemicals in Allentown, PA.

Alan G. Veith, B.S., 1949, is a Research and Development Fellow with B. F. Goodrich R Center in Brecksville, OH. He received a M.S. in physical chemistry of polymers from the University of Akron. He has completed 32 years of service with B. F. Goodrich, and serves as an adjunct professor at the University of Akron. He has been a member of the ASTM Committee D-11 on rubber for 25 years and received the ASTM Award of Merit, and made a Fellow of the Society, both in 1978. For ten years he has been in Iso-TC/45-Rubber (International Standards Organiztion). He and his wife Rosemary (Thesnes) have three children: ary A, (summa cum laude, University of Akron, 1980, now a chemical engineer with Du Pont at Wilmington, Del; a son Eric M, B.S. in mechanical engineering from the University of Akron in 1981, and Laura M, a business administration major at Bowling Green State University in Ohio.

John A. Idleman, B.S. in industrial chemistry, 1950. He is Assistant Chief Chemist with Firestone Synthetic Rubber and Latex Co. in Orange, TX. He has published three papers in Analytical Chemistry on gas chromatographic separation of inert gases and light hydrocarbons from methane through the C4 isomers. He has been on foreign assignments in France, Scotland, Japan, and South Africa as consulting chemist on plant start-ups of solution polymerized polybutadiene and sytrene butadiene polymers.

James C. W. Chien, M.S. 1951, received a Ph.D. from the University of Wisconsin. He is a Professor of Chemistry and Professor of Polymer Science and Engineering at the University of Massachusetts, Amherst. He was chairman for the International Union of Pure and Applied Chemistry Macromolecular Symposium held in Amherst in 1982.

Gary E. Smith, B.S. in industrial chemistry, 1955 is a Senior Project Engineer with Wilson Sporting Goods, River Grove, IL.

Richard C. Sheridan, M.S. 1961 is a research chemist with the TVA National Fertilize Center in Muscle Schoals, AL. He has served as Chairman and Councilor of the Wilson Dam Section of the ACS, and President of the TVA Association of Professional Chemists and Chemical Engineers. He holds 8 patents and has published 15 articles on fertilizer technology, and several articles on local history and the history of chemistry. Currently he is serving as editor of the Journal of Muscle Schoals History.

Joseph C. Thomas, Ed.D. in Chemistry and Science Education, 1961. After graduation he joined the faculty at the University of North Alabama, Florence, AL. He rose through the ranks, served 10 years as chairman of the Department of Science, 1 year as Chairman of the Division of Natural Sciences and Mathematics, 2 years as Associate Dean of the School of Arts and Sciences, and became Dean of that school on June 1, 1981. He holds the rank of Professor and has taught chemistry through his years of service.

E. Herbert Thompson, A.B. 1961, received his M.D. degree from W. Virginia University School of Medicine in 1965. He is an orthopedic surgeon with Summit Orthopedic Group, Inc. in Akron, OH and serves as Assistant Professor of Orthopaedics, Northeastern Ohio College of Medicine, and Adjunct Professor, College of Education, University of Akron. He is the Team Physi-

cian for the University of Akron.

Peter A. Diachun, B.S. 1964, owns Comco Company which involves being a converter in the textile and film industry.

W. Duke Myers, A.B., 1964 obtained an M.D. from the University of Louisville. Currently he is Associate Clinical Professor of Medicine at Texas Tech University School of Medicine in Lubbock, TX. He has served as Chief of Medicine, St. Mary of the Plains Hospital, 1980; Vice Chief of Medicine, Methodist Hospital, 1981; Program Chairman, Texas Panhandle Plains District Medical Society, 1981, and Co-director 'Update in Internal Medicine' postgraduate course in October 1981.

Dr. Thomas C. Vanaman, B.S. 1964, received his PhD degree in 1968 from Duke University. He was a postdoctoral associate from 1968-70 in the Department of Biochemistry at Stanford University. From 1970-83 he rose through the ranks to full Professor in the Department of Medical Microbiology and Immunology at Duke University. He was also Director of Basic Research in the Duke University Comprehensive Cancer Center. He has accepted the Chairmanship of the Department of Biochemistry at the University of Kentucky.

Donald H. Williams, a former faculty member was appointed chairman of the Department of Chemistry, Hope College, Holland, Michigan.

David V. Boyer, M.S. 1965 received a M.S. in chemical engineering from the University of Rochester. He holds the position of Technical Associate with Eastman Kodak Company, Rochester, NY. Presently he is working at his third location in the Kodak organization since starting in 1969. Previous positions were with Tennessee Eastman and Carolina Eastman companies. Currently his work is with a polyester recovery plant in development, converting polyester scrap back to the basic starting materials.

Gerald Roehrig, Ph.D 1965, is a professor in chemistry in the Natural Science Department at Oral Roberts University, Tulsa, OK.

Norman J. Juster, a visiting professor, 1965-66, who received his Ph.D. from UCLA in 1956 is Professor of Chemistry, 1977 and Dean of the Physical Sciences Division, 1980, Pasadena City College. Awards that he has received are: J. Ray Risser Award, 1978; Manufacturing Chemists Association Award and Medal, 1974; Sprengen Medal (American Association of Consulting Chemists), 1971, and grants from API and Welch.

Richard H. Cox, Ph.D. 1966, has taken a position in the Research Center, Philip Morris USA in Richmond, VA.

William L. Dowden, B.A., 1966 received a M.D. from the University of Kentucky in 1970. He is a plastic surgeon with Surgical Associates in Lexington, Specializing in hand surgery, reconstructive and cosmetic. His daughters are enrolled in the University of Kentucky.

James Duffy, Ph.D., 1966 is a Senior Scientist, Hooker Chemical and Plastics Corp in Niagra Falls.

Judith K. York Smith, B.A., 1966, received a M.A.T. degree from Duke University and now teaches chemistry in Jordan High School in Durham, NC.

David S. Frost, B.A., 1967 obtained an M.D. in 1971. He is a Fellow, American Academy of Family Physicians, 1980. Presently he is Program Director and Chief of Family Practice Director of the Naval Regional Medical Center Family Practice Residency in Charleston, S.C. He holds the rank of Commander in the Medical Corps of the U.S. Navy.

Terrell Holt, M.S. 1967, Ph.D. 1971, is the Engineering and Reliability Manager at Rockwell International, in Winchester, KY.

Albert C. Kovelesky, Ph.D., 1967, completed a term as Postdoctoral Reseach Associate with Dr. Albert T. Meyers at the University of New Orleans. He is now an Assistant Professor of Chemistry at Northeast Louisiana University, Monroe, LA where he is teaching organic chemistry at both the undergraduate and graduate level. A new chemistry building will be available soon. He and his wife have a two-year old son, Brian James.

Robert P. Berg, B.A., 1968 obtained his DDS degree from New York University in 1972, and is practicing dentistry in the Valley Medical Center, Franklin Square, NY. In July 1981 he was awarded Fellowships in the Academy of General Dentistry (FAGD) at the annual meeting in Denver. Only 425 dentists from the U.S. and Canada are so **Marshall G. Frazer,** Ph.D., 1968. From 1968 to September 1971 he was a postdoctoral research fellow with Dr. Charles Bradsher at Duke University. During the next ten months he was a research fellow with Dr. Donald Pearson at Vanderbilt University. From July 1971 to July 1973, he was a fellow in clinical chemistry at a hospital in Louisville, KY. In December 1973 he became the Assistant Director of the Hypertension Laboratory in the Vanderbilt University Medical Center where his research activities are in the fields of hypertension and prostaglandins. He and his wife have two boys, Stanton, born July 24, 1978 and Andrew, born October 29, 1981.

Richard P. Ryan, Ph.D., 1968, is a patent agent, a staff member of Bristol-Myers corporate legal department but is on assignment to Mead Johnson, Evansville, IN, a Bristol-Meyers subsidiary. He has combined his chemical and scientific background with the study of patent law and was admitted to practice before the U.S. Patent and Trademark Office in patent cases as a registered Patent Agent in December 1981. His wife, Elaine, is a laboratory supervisor in Nutritional Quality Control at Mead Johnson.

Lawrence S. Waldman, B.A., 1964 received his M.D. degree in 1968. He spent two years in the U.S.P.H.S. and received a Presidential citation (1969-71). He finished his pediatric residenty at the University of Colorado Medical Center in 1973; then a one-year fellowship in developmental pediatrics in 1974. He became board-certified in pediatrics in 1974 and was successfully recertified by the American Board of Pediatrics in 1981. He became a Fellow of the American Academy of Pediatrics in 1974. Since 1974 he has been with the Department of Pediatrics, Colorado Permanente Medical Group in Lakewood, CO, and in 1977 assumed the position as Chief of the Department. In 1980 he became the regional pediatric liaison for the Kaiser Medical Group in Colorado and currently is on the faculty of the Colorado Medical School as an assistant clinical professor. He is also a member of the Denver Medical Society Council and a delegate to the Colorado Medical Society.

Ben M. Edwards, B.A., 1969, received an M.D. degree from West Virginia University School of Medicine in 1975, followed by OBGYN Residency Training at West Virginia University - Charleston area Medical Center. Currently he is in private practice of obstetrics and gynecology in Huntington, WV. He wrote 'I have the deepest regard for UK for guiding me in my earliest academic achievements and giving me a chance to go on to study in the field of medicine'.

Steve Hannum, Ph.D. 1969, is Chairman of the Division of Natural Sciences and Mathematics at Asbury College in Wilmore, KY.

Joy M. Johnson, B.A., 1969 received a M.D. and is a radiologist, practicing in Santa Anna, CA. She is a Diplomate of American Board of Radiology and Diplomate of American Board of Nuclear Medicine.

Marilyn Magazin, B.A., 1969 received a Doctorat-Es-Sciences in 1978 from the University of Geneva, Switzerland. She is a postdoctoral trainee at Purdue University in the Biochemistry Department.

Glen G. Possley, Ph.D., 1969, is stll in the electronic components business as Operations Manager with United Technologies Mostek in Carrollton, TX, in charge of fabrication, R and engineering for all telecommunications, microprocessors, and read only memory circuits. His family is busy and rapidly growing.

James Alderfer, Ph.D. 1970, is located at Roswell Park Memorial Institute in Buffalo, NY.

Kenneth E. Blick, Ph.D. 1970, is Director of Clinical Laboratories for the State of Oklahoma and has moved to Norman, OK and joined the faculty of the Medical School of the University of Oklahoma.

Clifford D. Miller, Ph.D., 1970, chairs the Department of Science, Mathematics and Technology at Mountain View College in Dallas, TX. They held a college- wide symposium on science, the good, the bad, and the ugly, which he designed to educate students and staff on what constitutes science, what are the social responsibilities and consequence of science and scientists. The symposium was very successful in creating an atmosphere in which general education can survive, and participation by cross disciplines was extensive.

David E. Gillum, Ph.D., 1971 was promoted to Senior Research Chemist with Armco in Middleton, OH. After his graduation he spent a year and a half as a NASA post-doctoral Research Associate with Dr. Ehmann analyzing moon rocks. He taught chemisty at the Ashland Community College for 4 and one half years, and spent three summers working in the chemistry laboratories of Armco Ashland works. In July 1976 he began full time at Ashland where he was responsible for the operation of the Environmental Testing Lab. He transferred to Research in 1980 and led the development and application of DC plasma spectroscopy to Armco's analytical problems.

Fred M. Hawkridge, Ph.D., 1971, is a Professor of Chemistry at Virginia Commonwealth in Richmond, VA. He spent the 1981-82 academic year on sabbatical leave as a Visting Professor in the Department of Chemistry at the University of Delaware.

Patricia M. Santoliquido, Ph.D., 1971 is a chemist with the U.S. Department of Energy in Argonne, IL.

Gary R. Weisman, B.S. 1971, has been promoted to the rank of Associate Professor with tenure at the University of New Hampshire, Durham, NH. He recently has received a large NSF grant to fund his research. He and Donna had a third (and last! he claims) child, Emma Jean. Their other children are Chris, 7, and Kurt, 4.

Ainslie T. Young, Ph.D., 1971, is Section Head, Polymer Science Section, Inertial Confinement Fusion Target Fabrication, Los Alamos National Laboratories.

George W. Pendygraft, Ph.D., 1972 received a J.D. degree from Columbia University. He is a partner in the law firm of Baker and Daniels in Indianapolis, IN.

Dr. Jerry F. Casteel, postdoctoral associate with Dr. Sears in 1972-73, is Research Manager at Enhanced Oil Recovery Engineering, Cities Service Company in Tulsa, OK

Dr. Richard Pacer, research associate with Dr. Ehmann in 1973, received two awards: the Friends of the University Outstanding Teaching Award, and the Amoco Outstanding Teaching Award at the Indiana-Purdue University at Fort Wayne, IN, where he teaches in the Department of Chemistry.

Maw-Suen Ma, Ph.D., 1975, was a Research Assistant Professor at Oregon State University in 1981. In September 1981 he moved to U.S. Testing Co., Richland, Washington as a Senior Research Scientist.

Stephen A. Winkle, B.S., 1974, M.S. 1975 received a Ph.D. in 1979 from the University of California, Berkeley, working with Professor Ignacio Tinoco, Jr. He then was a postdoctoral fellow with Professor Thomas R. Krugh at the University of Rochester, a Damon Runyon-Walter Winchell fellow, 1979-80, and NIH fellow 1980-81. In 1981 he was appointed Assistant Professor in the Department of Chemistry, Rutgers University where he is continuing to work on DNA-drug interactions.

Thomas Barbara, B.S., 1976 received a Ph.D. from Columbia University in November 1981. He is performing postdoctoral research with R.R. R. L. Vold at the University of California, La Jolla.

Preston Miles, Ph.D. 1976, is a professor in the Department of Chemistry at Centre College, Danville, KY.

James S. Swan, B.S. 1976, received a Ph.D. degree from Penn State in 1981. After one year as a postdoc at Bucknell University working on HPLC he joined Scientific Systems Company developing LC columns. His wife, whom he married in September, 1982, has a B.S. in mathematics and teaches in State College, PA, where they reside. He roots for the Wildcats during basketball season but in the fall it's Penn State all the way.

Michael Hale, B.S. 1977, is continuing work toward a M.S. degree in chemical engineering at Auburn University.

Dr. Michael D. Jackson, postdoctoral associate with Dr. Sears 1977-78, is a staff enginer with IBM Corporation in Poughkeepsie, NY.

Meledath Govindan, M.S., 1978, after obtaining a Ph.D. degree from the University of Georgia, he joined the Department of Chemistry at Wesleyan College, Macon, GA, as an Assistant Professor.

Shuyen Lee Huang, M.S., 1978, is working on a Ph.D. degree in the Department of Medicinal Chemistry at Purdue University.

Anne Rogers Mauer, B.A., 1978 is a student in the School of Medicine at the University of Louisville.

Albert J. Filo, M.S. 1979, is working for Bell Laboratories in Allentown, PA.

Richard B. Read, M.S. 1979, is a senior research chemist/engineer with Union Carbide Corp. in Tarrytown, NY. Stanley S. Seelig, M.S., 1979 is Research Chemist II, Syracuse Research Laboratory, Allied Corp., Solvay, NY. His first year involved applied agricultural chemical research in improving the quality of ammonium polyphosphate via the production and purification of phosphoric acid. Currently he is involved in the start-up of a new plant process involving the production of various chrome chemicals. He has taken additional course work at Syracuse University and company-arranged conferences.

David Wayne Baston, B.A., 1980, received a D.V.M. from Auburn University School of Veterinary Medicine in June 1982. He has served a veterinary preceptorship in Tompkinsville, KY, where he will become an associate veterinarian with the Monroe Veterinary Clinic.

John J. Cangemi, M.S. 1980, is a Senior Chemist with B.F. Goodrich Co. at their Pedrichtown, NJ plant, producing approximately 450 million pounds of PVC per year.

Jean Dean, B.A., 1980 is a Process Research Chemist with Monsanto in Nitro, WV.

Edgar C. Nicolas, Ph.D., 1980, is a Scientist, Methods Development for Nutritional Quality Control, Mead Johnson, Evansville, IN, where he is involved in methods development for water-soluble vitamins in pharmaceutical/nutritional products by HPLC. He and his wife still keep tabs on UK basketball, while trying to ignore dismal news about UK football.

Jennifer Lynn Baker, B.A., 1981 is an Associate Chemist, Kentucky Power Company, Louisa, KY. She is also working part time on a M.S. degree in Chemistry at Marshall University, Huntington, WV.

Melanie Jane Miller Pepper, B.S., 1981 is a Researcher, Battelle Columbus, OH, working in the GC/MS group in the Analytical Chemistry Section.

TWAS

Twas the third week in August
When the weather was hot
That chemists from all over
Came dashing to Spindletop

Who? Third Weekend in August Society. In 1976 when John Bauer started working at Abbott Labs, he and Andy Plasz realized that Abbott had four ex-U.K. graduates working for it: Bauer, Granneman, Motlow and Plasz. In the surrounding states of Michigan and Wisconsin were about a dozen more. They decided to try having a picnic in

Waukegan, IL and getting the Alumni from the area to come. The first year had about ten ex-UK's and their families. They doubled that in 1978 but fizzled to only eight in 1980.

Since they did not want to limit the friends they contacted only to those who worked on a degree, they avoided the term 'alumni' and instead called the group the Third Weekend in August Society or the way it TWAS.

In order to get a more centralized location and give folks a chance and excuse to revisit UK they decided to risk planning a long distance Kentucky reunion in Lexington in 1982. Arrangements were made to hold the reunion at Spindletop Farm, the U.K. Alumni facility.

The reunion was a resounding success - according to a perhaps fuzzy count after partaking of the food and beverages, a total of 58 adults and 33 children attended. Many enjoyed the swimming pool and tennis courts. A list of the following people were there with their families: Jim Alderfer, John Bauer, Robert Beine, Kathy (Barksdale) Beine, Kathy (Steinmetz) Bauer, Ray Coleman, Phil Davis, Glen Ellis, Doug Ferry, Robert Fraas, Robert Guthrie, Charlie Griffith, Steve Hannum, Kurt Huhtanen, Tom Hearn, John Layton, Dave Lichtenberg, Preston Miles, John Motlow, Stan Mitchell, Andy Plasz, Susan Plasz, Jim O'Reilly, Stan Smith, Jack Steele, Vernon Stubblefield, Gary Smith, John Wallen, Bill Wagner, Steve Winkle, Dave Wesley, and Joe Wilson.

TWAS is planning another reunion in 1985 on the third weekend in August. Anyone interested in attending may contact

John Bauer
1223 Colgate St.
Wilmette, IL 60091
312-251-6716

We hope reminders will be published in future newsletters.

Student Awards

The following Student Awards were made possible by gifts from alumni, friends, and industry during the past two academic years.

Undergraduate: 1981-82

Robert M. Boyer Memorial Fund Awards:

Undergraduate Seminar Poster Session Awards:

First Prize: Jean Stewart $50
Second Prize: Christa Hartmann $30
Third Prize: Gaye Morelan $20
Honorable Mention: Bill Fletcher
Kevin Flowers
Mark Henry
Charles Jones

Meredith Award to Outstanding Senior:

Christa Hartmann $75

Alumni Development Fund:

Undergraduate Service Award:
Susan Alkhoja $50

Merck Index Award:

Mark Henry

Analytical Chemistry Award:

Kurt Haller

American Institute of Chemist Award:

Glenda Dahlquist

Undergraduate: 1982-83

Robert M. Boyer Memorial Fund:

Undergraduate Seminar Poster Session Award:
Kurt Haller $75

Honorable Mention: John Davis

Thomas B. Nantz Tuition Scholarship:

Christa Hartmann, Fall 1982
John Davis, Fall 1983

Meredith Award to Outstanding Senior:

Kurt Haller $100

Alumni Development Fund:

Undergraduate Service Award:
Gaye Morelan $25

Merck Index Award:

Seyhan Senler

Analytical Chemistry Award:

Mark Hail

American Institute of Chemist Award:

Susan Alkhoja

CRC Handbook Award for Freshman Chemistry:

Douglas R. Shutle

Graduate: 1981-82

Alumni Development Fund:

Outstanding Graduate Student Research Award:
M. Zaki Ali $75
Shahab Siddiqui $75

A. S. Behrman Fund Awards:

A. Outstanding Teaching Assistant Award:
Elizabeth Kleppinger $100
B. 100% Plus Award:
Przemyslaw Maslak $100

Thomas B. Nantz Tuition Scholarships:

Rita K. Calhoun, Fall 1982
Peter Nickias, 1982-83

Graduate: 1982-83

Alumni Development Fund:

Outstanding Graduate Student Research Award:
Maren Nicholas $100
Diane Vance $100

A.S. Behrman Fund Awards:

A. Outstanding Teaching Assistant:
Stephen McClanahan $100

Thomas B. Nantz Tuition Scholarships:

William Sartain, Fall 1983
Madeline Sampson, 1983-84

New Student Awards

We are pleased to announce the establishment of two new awards for students provided by Col. Byron T. Cook and Grace H. Cook, and by Mrs. Thomas B. Nantz.

The Stephen Harris Cook Undergraduate Summer Research Fellowship was established in 1982 in memory of Stephen, who was born in Memphis, TN, May 26, 1951. He graduated from Vanderbilt University with a B.A. major in inorganic chemistry. As a rising senior he received a NSF grant for summer research directed by Dr. John Van Wazer which was presented at a regional meeting of the ACS and published in **Inorganic Chemistry** Volume 12, No. 4 in 1973. Stephen started graduate work at Iowa State University in 1972, but was found to have leukemia in 1974, which led to his untimely death on January 26, 1975. Col. Cook graduated from the University of Kentucky (not in chemistry).

The fund provides for a income of $1000 a year to provide a stipend of $100 per week for the duration of the summer school session to an undergraduate student majoring in chemistry. The recipient should have demonstrated potential for academic excellence and show need for financial assistance. The first award was made to Mark Hail who worked on a 1983 summer research project under the direction of Dr. F. J. Holler.

The Thomas B. Nantz Memorial Scholarship was provided by an endowment gift from Mrs. Nantz in memory of her husband who died December 17, 1979. He was the retired Executive Vice-President of B. F. Goodrich Company. He received a B.S. from the Department of Chemistry in 1937. In 1947 he was made production manager of Goodrich's nitrile rubber plant in Louisville, and in 1952 was named plant manager of the company's vinyl monomer plant in Calvert City, Kentucky. He was a member of the UK Development Council, a UK Fellow, and a recipient of the Distinguished Alumni Centenial Award in 1965.

Income from the endowment provides two one-year scholarships for tuition for students majoring in chemistry, who in the opinion of the Selection Committee have exhibited potential for academic excellence and show need for financial assistance. Recipients for the 1982-83 academic year were

Christa Hartmann, Senior, Fall, 1982
Rita K. Calhoun, Graduate Student, Fall, 1982
Peter Nickias, Graduate Student, 1982-83

Awards for the 1983-84 academic year are:

John Davis, Senior, Fall 1983
William Sartain, Graduate Student, Fall 1983
Madeline Sampson, Graduate Student, 1983-84

Deceased Alumni

We have received notice of the following deaths:

Mrs. Glover M. Carpenter (nee Birk), B. S. 1916, whose home was in New Albany, Indiana.

James G. Black, retired Professor of Physics at Eastern Kentucky University died on January 5, 1983 at the age of 84. He received a B.S. in chemistry from U.K. in 1921, and a Ph.D. from the University of Michigan. He served in the Navy during World War I. From 1929 to 1941 he was head of the mathematics and physics department at Morehead State Teachers Colleges. During World War II he worked on secret U.S. defense research at the University of Michigan. He taught physics at EKU from 1947 to 1969 and served as head of the department.

Roy McCracken, B. S. 1921, who was employed at E. I. DuPont deNemours and Co. and lived in Waynesboro, Va.

Information received from Richard Sheridan told of the death of **Louis A. Riedel** on January 19, 1981. He was a retired TVA chemist living in Tuscumbia, Alabama. He received a bachelors degree in economics from U.K. in 1923.

Sarah T. Thorn Mitchell, B. S. 1927, M. S. 1932, was born Nov. 6, 1903 and died July 7, 1983 in Covington, KY. She taught chemistry at Henry Clay High School in Lexington from 1927-41 and later at Holmes High in Covington. Dr. Robert Baker in notifying us of her death said she sent many worthy students to the U.K. Department of Chemistry while he was on our faculty and thought of her almost as a colleague.

John W. Meredith, B. A. 1929, was a physician living in Scottsville, KY.

Robert L. Carter, B.S. 1930, died December 13, 1980 in Paris, KY.

Arthur W. Plummer, B.S. 1939, whose home was in Elizabeth, Maine.

Colonel E. Blankenship, B. S. 1949, was a resident of Russell, Kentucky.

Ova C. Bradley, B. S. 1950, was a salesman for Preiser Scientific Co. for several years before entering private business in Frankfort, KY before his death in 1982.

Julian H. Chaudet, Jr., M. S. 1950, worked at Tennessee Eastman Company in Kingsport, TN.

Herbert H. Griffin, Jr., B.A. 1951, died July 12, 1979 in Louisville, KY.

Wellington Walker, B. S. 1953, who died in 1981 was a research scientist with Union Carbide in Charleston, W.Va.

Aaron Wayne Linville, B. A. 1968, received his M.D. from U.K. Medical School in 1972. After an internship at Roanoke Memorial Hospital in Roanoke, Va., he established a medical practice in his hometown of Millersburg. In 1980 he moved his practice to Paris. He was named 'Doctor of the Year' in 1979 by his colleagues in the Kentucky Academy of Family Practice. After nearly ten years while he battled cancer and practiced medicine from his wheelchair, he died on June 3, 1983.

News from the Faculty and Staff

Carol Brock presented papers at the Congress of the International Union of Crystallography, Ottawa, Canada, August 1981, the Gordon Research Conference on Orientational Disorder in Crystals, Ventura, CA, January 1982, and the American Crystallographic Association Meetings, August 1982 in La Jolla, CA, and 1983 in Columbia, MO. She spent the summer of 1983 in the laboratory of J. D. Dunitz, Swiss Federal Institute of Technology in Zurich. She is serving on the Nominations Committee and chairman-elect of the Small Molecule Interest Group of the American Crystallographic Association. Her research is supported by a grant from the Petroleum Research Fund of the A.C.S. She was president of the Lexington section of A.C.S. 1981-82.

Ellis Brown spent the month of August, 1982 in Graz, Austria and attended the Heterocyclic Conference. He presented papers at the Kentucky Academy of Science meeting at Murray State in 1981 and the Southeast Regional ACS meetings in Lexington, 1981 and Birmingham, AL, in 1982. He served as General Chairman of the SE Regional Meeting of the ACS in Lexington in 1981. He is travelling to Cologne June 1983 to attend the German Conference on Chemistry.

Allan Butterfield was promoted to the rank of Full Professor, effective July 1983. He took a sabbatical leave as Visting Scientist at the Department of Biochemistry, St. Jude Children's Research Hospital, Memphis, TN the Spring semester, 1982. He was invited to prepare two reviews: 'Spin Labeling in Disease in Biological Magnetic Resonance, and 'The Relationship of Membrane Fluidity to Degenerative Muscular Diseases' in Membrane Fluidity in Biology. He presented papers at the Gordon Research Conference on Magnetic Resonance in Medicine and Biology in Tilton, NH; the NSF International Conference on Cell Membranes, New York City;the American Aging Association National Meeting in New York City; the Southeastern Magnetic Resonance Society in Durham, NC; and the Society for Neuroscience National Meeting in Minneapolis.

Dr. Butterfield and his graduate student, Sandy Farmer, presented papers at the 1981 Southeastern Regional ACS meeting in Lexington, November 1981. Sandy presented a research talk at the 1982 ACS SE Regional Meeting in Birmingham in 1982 while another of Allan's graduate students, Maren Nicholas, presented some of her research results at the Midwest Regional ACS Meeting at Oxford, Ohio in May 1983. Allan has given invited seminars at the Department of Biological Chemistry at the University of

Maryland, Departments of Biochemistry at the University of Tennessee and St. Jude Children's Research Hospital, and the Departments of Chemistry at Duke University, the University of Cincinnati, and the University of Maine. Butterfield's research is supported by grants from the NIH.

Audrey Companion presented a paper at the 33rd Southeast Regional ACS Meeting in Lexington, November 1981, and seminars at the University of Louisville and Northern Kentucky University. She is collaborating with D. P. Onwood at IU-PU Fort Wayne on studying carbon and beryllium doped clusters.

Paul Corio returned from a sabbatical leave the academic year 1981 - '82 at Virginia Polytechnic Institute where he presented seminars in addition to his research program. He presented a paper at the Southeast Regional ACS Meeting in Lexington, November 1981.

Bill Ehmann is continuing as Associate Dean for Research in the Graduate School through the 1983-84 academic year. He presented invited papers on his neutron activation research at the following meetings: DOE Conference on Characterization of Coal-Derived Material Pittsburgh, May 1982; two papers at the 28th Annual Meeting of the American Nuclear Society, Los Angeles, June 1982; and the 49th Annual Meeting of the Southeast Section of the American Physics Society, Lexington, October 1982. He presented papers at the 6th International Conference on Modern Trends in Activation Analysis, University of Toronto, June 1981;four group papers at the 33rd Southeast Regional Meeting of the ACS, Lexington, November 1981, Berea College, November 1981; and 17th Annual Conference on Trace Substances in Environmental Health, Columbia, MO, June 1983. His research has been supported recently by grants from the Aluminum Association Inc. for brain studies, the Institute for Mining and Mineral Research for coal studies, the Muscular Dystrophy Association, and DOE. Recent additions of instruments for his research include a ND-680 analyzer, a Kaman A-711 neutron generator, and an IBM/PC computer. A reunion of the 'U.K. Radiochemistry Mafia' (former students of W. D. Ehmann) was held at the Lexington SE/ACS Meeting, November 5, 1981. In addition to then current graduate students (Diane Vance, Diane Lowe, Tim Hossain, Mohammad Alauddin), former students and associates attending included Jim Tanner, Phil Baedecker, Dan Goodin, Bill Stroube, Dave Gillum, Jim Setser, Dick Pacer, Jim Huey and Dave Johnson. A party complete with 'radioactive' furnishings was held at the Ehmann's. Former and present students presented Bill with an original painting with a space theme at the start of the Multielemental Analysis Symposium he chaired. Bill received the 1982 Distinguished Scientist Award from the Kentucky Academy of Science.

Wib Mateyka, president elect of the American Society of Scientific Glassblowers attending the Southeast Regional ACS Meeting.

Phil Fanwick presented papers at the Southeast Regional Meetings of the ACS in Lexington, November 1981; Birmingham, AL 1982; and also at the national ACS meeting in Kansas City, MO, Fall, 1982. His research has been supported by a grant from the Research Corporation.

Bob Guthrie presented three papers at the Southeast Regional ACS Meeting in Lexington, Fall, 1981 and two presentations at the Gordon Conference on Radical Ions, in Wolfeboro, NH, June 1982. In July 1982 he attended the Sixth IUPAC Conference on Physical Organic Chemistry in Louvain-La Neuve, Belgium where he presented two papers and the most recent draft of 'Nomenclature for Mechanisms of Straightforward Transformations' to the Commission on Nomenclature in Physical Organic Chemistry. He attended the 31st IUPAC General Assembly Meeting in Belgium and the national ACS Meeting in New York in September 1981. His student, Christa Hartmann presented their research at the 184th National ACS Meeting in Kansas City, September 1982. During the summer of 1983 he gave invited lectures on 'Electron Apportionment in Three- electron Bond-breaking Processes at Queens University, McMaster University, and University of Western Ontario.

Jim Holler was promoted to the rank of Associate Professor with tenure effective July 1983. He presented a paper at the Pittsburgh Conference on Analytical Chemistry, March 1981; the Gordon Research Conference, August 1981; three papers at the Southeast Regional Meeting of the ACS, November 1981. He attended the Midwest Universities Analytical Chemist Conference at Purdue, 1981 and helped host the conference in Lexington, Fall, 1982. He received a NSF grant to support his research, effective, Spring 1983. He and his students presented several papers at the Midwest Regional ACS Meeting at Miami University, May 1983. His very successful laboratory manual, 'Experiments in Electronics, Instrumentation, and Microcomputers' coauthored with J. P. Avery, S. R. Crouch, and C. G. Enke, was published by Benjamin-Cummings in 1982.

Jim Kincaid attended the Midwest Universities Analytical Chemists Conference at Purdue in 1981 and helped host the meeting in Lexington, Fall 1982. He presented two papers at the Central Regional ACS meeting at Miami University, Oxford, OH, May 1983, and one at the Pittsburgh Conference on Analytical Chemistry, May 1983. He attended the conference on 'Inorganic Chemistry Toward the 21st Century at Indiana University. His wife Evelyn gave birth to a son, Jim on August 11, 1982.

Bob Kiser on October 4-8, 1982 was an invited tour speaker, Ohio Valley Circuit, ACS, speaking on 'Artificial Intelligence in Mass Spectral Interpretation' at Morgantown, WV; Cumberland, MD; Marietta, OH; and Huntington, WV. He was a member of the Nominating Committee for National Officers, American Society for Mass Spectrometry 1981-83. He presented an invited symposium paper on mass spectrom-

etry at the Central Regional ACS Meeting at Miami University in May 1983.

Wilbur Mateyka became President-elect of the American Society of Scientific Glassblowers in June 1983. He will assume the presidency in June 1984.

Kurt Niedenzu spent the Fall Semester 1982 on sabbatical leave at the University of Munich, West Germany with Professor H. Noth. He presented several lectures at German universities. He has received a grant from the ONR to support his research on boron-nitrogen compounds.

Jim O'Reilly returned from his sabbatical leave, 1980-81, at the Food and Drug Administration in Washington, DC. He attended the Midwest Universities Analytical Chemist Conference at Purdue in 1981 and helped sponsor the MUACC meeting in Lexington in 1982. He presented papers at the Southeast Regional ACS meeting in Lexington, 1981, and the Central Regional ACS Meeting in Oxford, OH, Spring, 1983, and gave seminars at Xavier University, Illinois State University, Ohio Northern University, Bellarmine College, and Miami University, Oxford, OH. He is busy working on the second edition of his very successful 'Instrumental Analysis' text. Spare time activities include being a soccer referee for local youth, high school, and college games. He is currently the secretary-treasurer of the Lexington section of the ACS.

Merle Pattengill presented papers at the International Symposium on New Directions in the Molecular Theory of Gases and Liquids in Madison, Wisconsin, June 21, 1981 and the Southeast Regional ACS Meeting in Lexington, Fall 1982.

John Patterson presented a paper at the Southeast Regional ACS Meeting in Lexington, Fall, 1982.

Jack Selegue presented papers or posters at the following meetings: Tenth International Conference on Organometallic Chemistry, August 1981, in Toronto, Ontario, Canada; the Southeast Regional ACS Meeting, November 1981, Lexington; the Kentucky Academy of Science, November 1981, Murray; the ACS/CIC/RSC Divisions of Inorganic Chemistry Biennial Symposium, May 1982, Bloomington, IN; 1982 NSF Organometallic Chemistry Workshop, June 1982, University Park, PA; Gordon Research Conference on Organometallic Chemistry, August 1982, Andover, NH; ACS National Meeting, September 1982, Kansas City, MO; ACS Central Regional Meeting, Miami University, May 1983, Oxford, OH. He also attended the ACS National Meeting, August 1981, New York; the Waldo Semon Lectureship Series at Kent State University, November 1982, Kent, OH; the Symposium on Catalysis by Organometallic Compounds, Northern Kentucky University, March 1982, Highland Heights, KY; and the Tri-State Catalyst Club Annual Symposium, May 1983, Lexington. In support of his research he received a $20,000 grant from the Occidental Research Corporation, an ACS-PRF Summer Research Fellowship for Dr. Conrad Shiba of Centre College for the Summer, 1982, a summer Faculty Research Fellowship, Summer 1982 and a Research Assistantship for a graduate student, Peter Nickias, Summer 1982, both supported by the U.K. Graduate School, and a ACS-PRF Summer Research Fellowship for James Goodrich of Centre College, Summer, 1983. He is a founding member of the Woodland Park Community Food Co-op. On June 3, 1983 he married Edith C. Eberhart.

Stan Smith received a cross appointment as Associate Professor in Radiology and is a member of the NMR Imaging Unit Managing Committee in the Medical Center, where he provides basic science instruction and planning for one of only 10 or 12 operating NMR imaging units in the United States. He taught Varian Associates NMR Short courses at Rutgers University, Cleveand State University, Case Western Reserve University, University of Houston, G.D. Serle Co., Varian Associates laboratories (including a special lecture on NMR imaging) and Monsanto Agricultural Research Center in St. Louis. He was an invited speaker on the 'Analytical Applications of 2D NMR' at the Anachem Award Symposium at the Ninth Annual Meeting of Federation of Analytical Chemistry and Spectroscopy Societies, Philadelphia, September 1982, and 'Clinical NMR' in the NMR Imaging Symposium, College of American Pathologists/American Society of Clinical Pathologists Joint Meeting in Chicago, April 1983. He presented papers at the ACS National Meeting in Kansas City; the First Meeting of the International Society of Magnetic Resonance Imaging, Boulder, CO, February 1983; University of Louisville, January 1983; Varian Owners Conference, Gulf Research and Development Corporation, Pittsburgh, June 1983. He presented a series of eight lectures on NMR to the Radiology Department, U.K. Medical Center, Fall, 1982. He has received grants from the Institute of Mining and Minerals Research to support research on NMR Methods of Coal Liquid Characterization. He was elected to the Board of Directors of the Kentucky Civil Liberties Union for a three year term starting Spring 1983. He was elected treasurer and divemaster of the Bluegrass Dive Club. For recreation he has gone diving at Honduras, Florida Keys, in Canada on wrecks, and spearfishing in California. He participated in setting the Guiness World Book record underwater checker tournament and won. He was divorced in 1981 and married Beth Church in 1982.

Tom Smith presented a paper at the 12th N.E. Regional ACS Meeting, June 1982, the U.K.R.F. Mini-forum on Anti-tumor Drugs and Drug DNA Interactions, May 1982, and three papers at the Southeast Regional ACS Meeting in Lexington, Fall, 1981. He taught summer school at the Univeristy of Maine, 1981. He had a heart attack while in Maine, Summer 1982, and was on sick leave the fall semster 1982. He has recovered and returned to full time teaching, Spring 1983. He was president of the U.K. Chapter of AAUP, 1981-82, and chairman of the ACS-SE Regional Award Committee for the 1982 Award in High School Chemistry Teaching.

Laren M. Tolbert was awarded a prestigious Sloan Research Fellowship for $25,000 for two years starting Fall, 1983. This is only the tenth Sloan Fellowship awarded to U.K. since 1973 and the first in the Department of Chemistry. He will take a sabbatical leave, Spring 1984 to concentrate on research. He has received grants from N.S.F., DOE and recently from PRF to support his research program. He presented papers at the following meetings: two at the National ACS Meeting, Atlanta, GA, March 1981; Fifth Solar Photochemistry Research Conference, DOE, Brookhaven National Laboratory, May 1981; Gordon Research Conference on Organic Photochemistry, August 1981; three at the Southeast Regional ACS meeting in Lexington, November 1981, Sixth Solar Photochemistry Research Conference, Boulder, CO, June, 1982; Ninth Conference on Organic Photochemistry, IUPAC, Pau, France, July 1982; two at the National ACS Meeting in Kansas City, September 1982. He gave seminars at Iowa State University, University of Louisville, Brown University, Bell Laboratories, and Eastman Kodak Company. He was invited to present a lecture at the James Flack Norris Award Symposium in honor of Glen Russell at the national ACS Meeting in Seattle, Spring, 1983. He was chairman-elect of the Lexington section of the ACS, 1982, and chairman of the Naff Symposium Committee, 1982.

Joe Wilson added to his administrative service by accepting the Acting- chairmanship of the Department for the Spring semester 1983 in addition to serving as Director of Graduate Studies. He relinquished his job as Secretary-Treasurer of the Lexington Section of the ACS to Jim O'Reilly, but served as Finance Chairman of the Southeast Regional ACS Meeting held in Lexington Fall 1981. He was chairman of the Naff Sympsoium Committee for 1981.

Steve Yates attended the Gordon Research Conference on nuclear chemistry in June 1981. He returned in January 1982 from a six-month sabbatical leave at the Kernforschungsanlage Juelich, West Germany. He spent five weeks in Europe during

the Fall semester 1982, where he returned to Juelich to continue research started there and presented a paper at the International Conference on Nuclear Structure in Amsterdam and a paper at the Conference Commemorating the Fiftieth Anniversary of the Discovery of the Neutron, held in Cambridge, England. He coauthored two papers presented at the Southeast Regional ACS meeting in Lexington, 1981, two at the 184th National ACS meeting in Kansas City, Fall, 1982, two at the International Conference on High Angular Momentum Properties of Nuclei in Oak Ridge, TN, Fall, 1982, one at the Southeast Section of the American Physical Society, Lexington, and the German Physical Society Meeting, in Muenster, 1982. His research is supported by a grant from the N.S.F. He is chairman of the Undergraduate Awards Committee of the Division of Nuclear Chemistry and Technology of the ACS for 1983. He was elected vice-chairman of the Lexington Section of the ACS - 1983. He served as chairman of the Ethics Committee of the U.K. Chapter of AAUP, 1982-83. He received the Teacher of the Year Award, 1982-83, from the U.K. Chapter of ACS Student Affiliates.

1982 Symposium on Chemistry and Molecular Biology. Left to right: Dr. Joseph J. Katz, Prof. Melvin Calvin, who presented topics on artificial Photosynthesis, Dr. M.B. Naff, and Dr. Laren Tolbert, chairman of the symposium committee.

Chemists as Administrators

In addition to **Bill Ehmann** serving half time as Associate Dean for Research in the Graduate School, the Department has lost two of the senior faculty to full time administrative posts under the University Administrative Reorganization.

Don Sands served as Director of General Chemistry 1974-75, when he went half-time as Associate Dean of Arts and Sciences from 1975-1980. He was Acting Dean of the College July - December, 1978. From 1981-82 he was Associate Vice President for Academic Affairs and under the reorganization he was appointed full time Associate Vice-Chancellor for Academic Affairs, Fall, 1982. Some of the responsibilities of the present position are:

(1) Academic Support with the following units reporting directly to him: Admissions and Registrar, Art Museum, Computing Center, Counseling and Testing, Instructional Resources, Libraries, University Press.

(2)Undergraduate Studies which includes chairing the Undergraduate Council, managing academic scholarships, Oswald Competition, and the Honors Program which reports to him.

(3)Staff Responsibilities for the Chancellor, including faculty promotions, program review, academic space, animal care, personnel evaluations, appeals, environmental hazards, etc.

One wonders who else might be doing anything. ven so he maintains close contact with chemistry and plans to teach courses occasionally.

Paul Sears in 1970 assumed the half-time position as Faculty Assistant to the President of the University until 1982, when under the administrative reorganizaion, he was appointed full time as the Special Assistant for Academic Affairs, Central Administration. As the Faculty Assistant (half- time) he had the following responsibilities:

- handling numerous **ad hoc,** short-range matters of concern to the President or the Office of the President.
- serving as a staff and resource person in the development and maintenance of the University's **Governing Regulations** and **Administrative Regulations** and the rules of the faculties of colleges and other educational units.
- member of the President's central administrative cabinet.
- resource person relative to inquires from administrators, faculty, and staff concerning the University's policies and procedures.
- responsible for maintaining the inventory of the University's approved degree programs.
- serving as the President's representative, and sometimes trouble shooter, in various matters or situations.
- generally assisting the President in an informal and flexible manner.

The **Special Assistant for Academic Affairs** is responsible for coordinating academic programs and academic program plans across the academic sectors of the University and for coordinating program approval with the Board of Trustees and external agencies. The Special Assistant is also responsible for the maintenance of the Governing and Administrative Regulations of the University. In addition, most of the items listed above also apply.

Paul received the U.K. Alumni Association Great Teacher Award in 1980. He was elected by the faculty to serve on the Board of Trustees from 1969-1978, is a member of the U.K. Development Council and U.K. Athletics ssociation. He was the Director of the University of Kentucky University System Institutional Self-Study and Chairman of the Steering Committee, 1980-82. He served on the Council on Higher Education Task Group for the Development of a Comprehensive Plan for Higher Education in Kentucky 1974-75.

Recent Graduates

During the 1981-82 academic year the Department awarded three B.S., eleven B.A., five M.S., and three Ph.D. degrees. Those who received B.S. degrees are James L. Huckaby, in graduate program in U.K. Department of Chemical Engineering; Kenneth R. Davis and Mark W. Evans—graduate school in our department. The following received B.A. degrees: Robert A. Brewer, Jr.; Julie Pickard; Amet Akaydin, in medical school at the University of Kentucky; Phillip R. Flanery; William F. Fletcher, graduate school in North Carolina; Stephen R. Gathy, U.K. Chemistry graduate student; Susan Luerman, working in U.K. College of Pharmacy; Mary Montebello, U.K. Law School; James E. Moore, U.K. Medical School; Richard A. Neill, U.K. Medical School; Jean A. Stewart, U.K. Medical School. The M.S. degrees were awarded to Julie F. Evans, employed at IBM, Lexington; Daniel P. Martone, graduate school in chemistry at Notre Dame; Raymond D. Merrick, U.K. Medical School; Anita C. Fitzpatrick, moving to Richmond, VA, and employed at the University Medical School; and Michael L. Trover. Ph.D. recipients: Jimmy B. Feix, ESR Center Medical College of Wisconsin, Milwaukee; Fazlul Alam, postdoctoral associate, Ohio State University; Gary R. Williams, employed at IBM, Poughkeepsie, NY.

In the 1982-83 academic year four B.S., 13 B.A., 7 M.S., and six Ph.D. degrees were awarded. Those who received the B.S. degree are Christa Hartmann, entering a graduate program at the University of California, Berkeley; Robert Clark in the U.K. Dental School; Kurt Haller, who received a NSF Fellowship and entered the graduate program in chemistry at Northwestern University; and Charles E. Jones. The following received B.A. degrees: James K. Ford; Leigh A. Duley; Kevin Flowers; Mark Henry, in U.K. Medical School; Curtis L. High, in U.K. Medical School; Terry D. Hess; Pamela Holland; Vernon E. Long; James H. Oh, in U.K. Medical School, Taminah Ronagh-Langroodi; and Seyhan Senler, in University of Louisville Medical School. M.S. degree recipients and current positions: Joseph A. Cook, National Naval Medical Center; Bennett T. Farmer, continuing in U.K. Ph.D. program; Mansor B. Ahmad, returned to Malaysia; Amiya R. Ghatak-Roy, Department of Chemistry, Texas A University; Fernando E. Ordaz, Medical School, University of Louisville; Kenneth D. Campbell, Department of Chemistry, Ashland Community College, Ashland, KY; and Roger W. Rudinsky. Ph.D. recipients: Mohammad Alauddin, instructor, U.K. Department of Chemistry; Tim Z. Hossain, Eastman Kodak, Rochester, NY; A.K.M. Shahabuddin Siddiqui, postdoctoral appointment, Wayne State University, Detroit, MI; Harriet F. Ades, parttime instructor, U.K. Department of Chemistry; Mohammad Z. Ali, Department of Chemistry, University of Colorado, Boulder; Przemyslaw B. Maslak, postdoctoral appointment, Department of Chemistry, Columbia University, New York.

Retirements

Ellen Baxter, Librarian, retired June 30,1983. She has been the only librarian with the department since our collections were combined with Physics in 1963. During this time periodical subscriptions have increased by 40% and the volume count of the collection has doubled.

To all of you alums out there who have spent many, many hours in the library during your academic years, Ellen wishes you the best of luck, health and happiness. When you return, expect to find a new face instead of the old one you had grown accustomed to seeing.

Ellen has no specific scholarly plans for her retirement years and says she is going to do 'only what she wants to do' which includes having more time with her two schnauzers, two sons, two daughters-in-law, and two grandchildren - in that order.

Philip Hisel, storekeeper, primarily for the general chemistry program, took early disability retirement in 1982. He served in the U.S. Marine Corps and worked at Standard Products Company before joining our staff on September 24, 1962.

Clyde Todd, storekeeper on the second floor, retired in May, 1983, after four years of service to the Department.

William K. Plucknett joined our faculty in 1953 and retired June 30, 1983. He was born December 20, 1916 in DeWitt, Nebraska, received his A.B. from Peru State College, Peru, Nebraska, and PhD from Iowa State University in 1942. He was a Technologist and Group Leader, Shell Oil Company 1942-47; Instructor, University of California, Berkeley, 1947; Assistant Professor of Chemistry, Iowa State University, 1947-51, and Associate Chemist, Ames Lab of AEC during that time; Associate Professor of Chemistry, Fordham University 1951-53. His area of research was in physical chemistry. He was Director of General Chemistry in our Department from 1975 to retirement. In addition to his membership in numerous professional chemical societies, he was very active in the American Association of University Professors serving on many committees and offices in the local section and State Conference, including presidencies of both. He was elected to many University committees, councils, and the University Senate where he served a term as chairman.

William F. Wagner retired June 30, 1983 after coming to the University in June 1949. He was born in Canton, Missouri on September 13, 1916, received a A.B. from Culver Stockton College, Canton, MO, a M.S. from the University of Chicago in 1940, and a PhD from the University of Illinois in 1947. He was a research chemist at the Illinois State Geological Survey, 1940-45; Assistant Professor of Chemistry, Hanover College, Hanover, Indiana, 1947-49 before coming to U.K. He served two terms as Chairman of the Department: 1965-68 and 1976-83. He was active in the local section of the AAUP serving a term as president, was a member of the Credit Committee of the U.K. Credit Union for several years. He was elected to serve a term as faculty member of the Board of Trustees from 1981-83.

Spring ACS Meeting

A large number of our faculty plan to attend the Spring ACS Meeting in St. Louis, April 8-13, 1984. The Department will sponsor a social hour. This will be an excellent opportunity for you to meet some of our new faculty and bring us up to date on your activities.

Ashland Oil Foundation Summer Fellowships

Fellowships for the summer of 1982 were awarded to the following students: Howard Elmore, a graduate student, worked with Dr. Kincaid on high oxidation states of metalloporphrins. Diane Lowe, a graduate student, initiated studies on the neutron activation analysis of Kentucky oil shales for trace elements under the direction of Dr. Ehmann. Christa Hartmann, a senior, worked with Dr. Guthrie on the alkylation of nitroaromatic compounds. Peter Nickias, under the direction of Dr. Selegue, synthesized mixed-metal clusters which might activate substrates such as H_2, CO, and CO_2. Stephen McClanahan attempted the preparation of a ruthenium (II) complex of a 3,3-methylene bridged bipyridine. Stanley Simpson, working with Dr. Holler, continued his research on the development of a method for studying the kinetics of very rapid chemical reactions by microdroplet Raman spectroscopy. The students participated in a tour of the research facilities of the Ashland Chemical Company in Dublin, Ohio and heard reports from their technical staff on July 28, 1982.

Four $1000 fellowships were awarded to the following students for the summer of 1983: Troy Harmon, an undergraduate performing independent research with Dr. Butterfield's group, focused on the metabolic state of the red blood cell and its relationship to the physical state of sialic acid. The following recipients are graduate students: Sandy Farmer, after receiving a M.S. degree under Dr. Butterfield, continued his investigation of the effects of spectrin removal on the physical state of sialic acid in the erythrocyte membrane. Madeline Sampson investigated the mass spectrometry of multiply-charged ions in small molecules, under the direction of Dr. Kiser. William Sartain's research dealt with the synthesis and characterization of bimetallic clusters of early and late transition metals, the work directed by Dr. Selegue. The students were accompanied by Drs. Kiser and Selegue on a trip to Ashland Petroleum Company in Ashland to tour Ashland's product application lab and research facilitation August 16ª 1983.

Information Please

Name _____

Degree and Year _____

Home Address (if different from that on this mailing) _____

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_____ ZIP _____

Your present position or title _____

Organization _____

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_____ ZIP _____

Degrees received from other institutions after leaving U.K. _____

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News concerning your career and other news of interest for the next Newsletter ____

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Features you would like to see in the next Newsletter _____

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Please return to: Dr. William F. Wagner
Department of Chemistry
University of Kentucky
Lexington, Kentucky 40506

Dear Alumna/us,

Recruiting good graduate students is a high priority of the Chemistry Department. In our experience, once students find out in detail about our program (and especially if they visit here), they give us serious consideration when they choose a graduate school. If you feel that your educational experience here was a good one and that others could benefit from our graduate program, we can use you in spreading the word.

Our limited recruiting funds are currently used to mail our literature to most chemistry departments in the country, to support faculty travel for seminars at area schools, and to bring interested students to this campus. In this letter I am asking any interested graduates to volunteer to visit one or more colleges or universities near you to place our materials in a prominent place and/or to visit the appropriate undergraduate advisor, graduate advisor or chairman with an offer to discuss our chemistry program with any interested undergraduates. If you get any names of students, I will write them directly. If anyone wants to talk with me, urge him or her to call me collect at 606-257-7058.

You can use the attached envelope and the form below to request picture post card sets for distribution. The departmental booklets with application forms are sent directly to students who return the post cards. (A new booklet is now being prepared for use next year.) You may also want several of these booklets to leave at the schools you visit. Follow-up visits to applicants from your area might also be useful. Suggestions from you on any of these matters are earnestly solicited.

Those who don't have time to engage in active recruiting could help with a letter to us indicating the value of their U.K. education in enhancing their career goals. This information would be useful to us for recruiting purposes and for justifying our existence internally.

Please call me if you have any questions or comments.

Sincerely,

Joseph W. Wilson

Joseph W. Wilson
Director of Graduate Studies

Dear D.O.G.:

Please send me the following materials:

_____ recruiting postcards
_____ departmental booklets
_____ other _____

Name:
Address:

Comments:

Department of Chemistry
University of Kentucky
Lexington, Kentucky 40506-0055

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