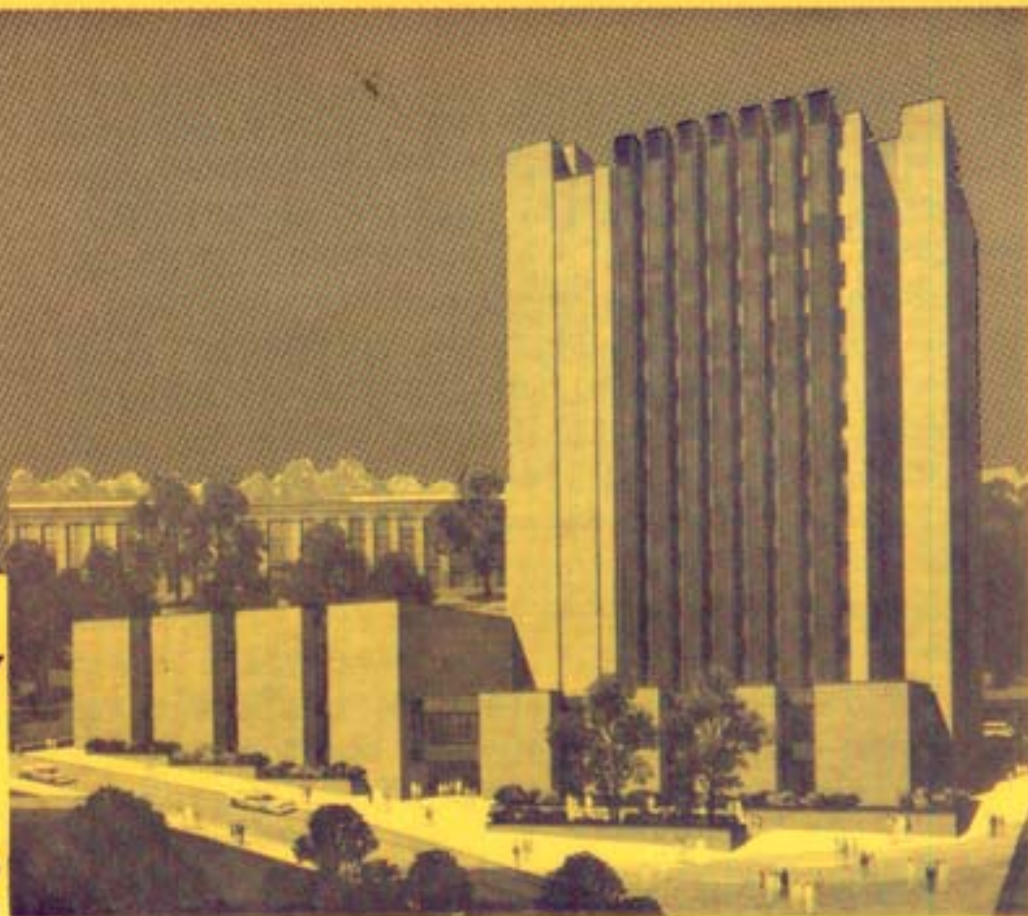


ALUMNI NEWSLETTER

Department of Chemistry

University of Pittsburgh 1972



October 2, 1972

Dear Chemistry Alumni:

Greetings from Pittsburgh. We are sending each of you a copy of the 1972 Chemistry Alumni Newsletter. In it you will find: (1) *Some of the Year's Highlights* by W. E. Wallace, professor and department chairman, Ph.D., 1941; (2) *The Henry Frank Symposium* by E. M. Arnett, professor, Ph.D., 1949, University of Pennsylvania; (3) *Activities of Material Research Group at Pitt* by W. E. Wallace; (4) *Alumni Giving and the New Building* by W. Richard Howe, executive assistant to the chairman of the department, and (5) *News Notes about the Alumni and Faculty* by me, professor, Ph.D., 1945, Duke University.

As we all know, the job situation for new Ph.D.s is still very tight. We would greatly appreciate it if you would let us know of any openings you hear about so that we can call them to the attention of our students.

A self-explanatory form which will give us up-to-date information about you is enclosed. Please fill it out and return it to me at your earliest convenience. These forms will be an excellent source of News Notes for the 1973 Newsletter.

With kindest regards,

Robert Levine
Professor of Chemistry

SOME OF THE YEAR'S HIGHLIGHTS

by

W. E. Wallace, Ph.D. '41

Professor and Department Chairman

Many of you remember Dr. Henry S. Frank, who served as department chairman from August 1951 until February 1963. Professor Frank has reached the statutory retirement age, and, as of July 1, 1972, was given Emeritus status. An excellent symposium in honor of his service to the University and the department was held in June. The events associated with this symposium are described elsewhere in the Newsletter by Professor Arnett, chairman of the organizing committee. We are delighted to be able to report that Professor Frank will remain with us, continuing his world famous studies of aqueous systems.

The program in forensic chemistry, under the able supervision of Dr. Joe Taber, associate professor and administrative officer, continues to grow. This program, involving the department, the Pitt Law School and the Allegheny County Crime Laboratory, deals with the scientific aspects of crime detection. The popularity of this M.S. program, which now involves one out of ten graduate students in the department, seems to stem from the novelty of the subject matter and its relevance to contemporary problems. Of course, the fact that it is a sound scholastic program adds to its popularity. A number of our students are double majors; that is, they are satisfying degree requirements in the forensic area as well as in one of the conventional areas of chemistry. The program has attracted world-wide attention. Job opportunities in forensic chemistry are about the best in the entire area of chemistry.

Our new building is now about halfway complete. It is a magnificent structure, aesthetically and functionally. Built of reinforced concrete to provide the necessary rigidity, the exterior is, in part, an attractive buff brick veneer and partly anodized aluminum. At present, workmen are forming the thirteenth floor. Within a month it should be topped out at fourteen floors plus a penthouse for conducting potentially hazardous experiments. Completion is scheduled for December 1973, with occupancy taking place shortly thereafter. Staff and faculty, who have labored so long with inadequate facilities, are anxiously awaiting the completion date. We hope that as many of you as possible will plan to attend the dedication of this new facility in early 1974.

In our August 1971 Newsletter, we wrote of the addition of seven new faculty members at the beginning of the 1971-72 academic year. They have already become an integral part of our operation. *Dr. Ken Daugherty* and *Dr. Carolyn Maricondi* have been added to our analytical teaching staff. *Dr. Maricondi* (Pitt, Ph.D., '68) did her work under the supervision of *Professor Bodie Douglas* on inorganic complexes. She will continue in this field. *Dr. Daugherty* (University of Washington, Ph.D., '64) is involved in materials work (silicates, aluminates and ferrites) and in analytical chemistry as applied to the forensic area. *Drs. Gordon Ryan* (Columbia University, Ph.D., '69) and *Paul Grieco* (Columbia University Ph.D., '69) of our organic group strengthen our bio-organic hand. *Dr. Ryan* is involved in nucleic acid work; *Dr. Grieco* is engaged in work in several areas, including the prostaglandins. *Dr. V.U.S. Rao* (University of Bombay, Ph.D., '68) is studying the superconductivity of intermetallics containing rare earths and is doing theoretical work on crystal field effects and magnetic anisotropy of rare earth systems. *Dr. J. Wayne Rabalais* (Louisiana State University, Ph.D., '70), who along with *Drs. Rao* and *Ryan* were added to our faculty with funds provided by our NSF Center of Excellence grant (*vide infra*), is engaged in photo-electron spectroscopy. This can involve UV (the Chevrolet version) or X-ray (the Cadillac version) photo ejection. At present, he has UV facilities. X-ray excitation facilities are being sought in support of his active program. *Dr. Peter Siska* (Harvard University, Ph.D., '70) has about completed the laborious task of setting up his complex molecular beams equipment for studying reaction dynamics.

Dr. Alfred Moyé (Ph.D., Pitt, '68) is on an 18-month leave of absence to serve as dean of student affairs. Thus, the tradition of the chemistry department as "mother-of-deans" is being continued. *Dr. Moyé* follows in the footsteps of *Dr. Jerome Rosenberg*, dean of the Faculty of Arts and Sciences. *Dr. Richard McCoy*, associate dean, FAS

and *Dr. Tobias Dunkelberger*, associate dean, College of Arts and Sciences. *Dr. William Kadunce* (Pitt, Ph.D., '71) has taken over for *Dr. Moyé* in his absence.

In the summer of 1970, the National Science Foundation awarded the department \$1,628,000 in response to a proposal written three years earlier. The grant is under the NSF's Science Development Program, more popularly known as its Center of Excellence program, which is intended to provide funding sufficient to enable "nearly excellent" departments to become excellent. Our sister departments, physics and crystallography, also received SDP grants, smaller than ours, but commensurate with the scale of their activities. The impact of the SDP funding has been substantial, by enabling us to acquire new faculty and support personnel and sophisticated equipment. The initial SDP award was for a three-year period, ending August 31, 1973. We have recently received an extension of the program until June 30, 1975, with new monies in the amount of \$384,000. This will enable the departmental development to continue an additional two years, but at a slackened pace. The effects of reduced educational support of the University by the state have been ameliorated by judicious use of SDP funds. Moving and relocation costs when the new building is occupied, estimated at about \$300,000, will strain our resources. At present, we are trying to arrange not only the finances required for this, but funding to take up the slack in 1975 when SDP funds are no longer available.

NECROLOGY

We regret to report the death of *Malcolm Dull*, retired associate professor, on October 16, 1971, after a long illness. His death resulted from complications associated with diabetes.

RETIREMENTS (JUNE 30, 1972)

Professor H. S. Frank (see above)

Mr. Albert Harrison, instrument maker

WANTED

Outstanding Graduate Students

Through our NSF Center of Excellence Grant, we are able to offer several \$5,000 graduate teaching fellowships to outstanding applicants each year. If you know of any distinguished college seniors who might be interested in applying for one of these awards, please submit his or her name to *Dr. J. J. Taber*, Administrative Officer, Department of Chemistry, University of Pittsburgh, Pittsburgh, Pennsylvania 15213.

THE HENRY FRANK SYMPOSIUM

by

E. M. Arnett, Professor

Ph.D., 1949, University of Pennsylvania

From June 12 to 14, over 150 scientists gathered in Pittsburgh at a special symposium on the *Physical Chemistry of Aqueous Systems*. The occasion for the meeting was the 70th birthday of Henry Frank, professor of chemistry and former chairman of the department (1951-1963).

Experts on aqueous systems came from the U.S., England, Canada, Germany, and as far away as Australia to hear twelve lectures by leaders in the field, including several of Professor Frank's former students.

The program included a banquet in Henry Frank's honor at which the title of Distinguished Service Professor Emeritus was bestowed on him by Provost Rhoten Smith.

Support for the symposium came from the Army Research Office (Durham), The National Science Foundation, the Mellon Institute of Science of Carnegie-Mellon University and the University of Pittsburgh.

Several outstanding scientists at the meeting indicated that it was the best conference they had attended. The chemistry department was proud to play host to such a distinguished audience whose presence was clear evidence of their high esteem for Henry Frank's contributions.

ACTIVITIES OF MATERIAL CHEMISTRY RESEARCH GROUP AT PITT

by

W.E. Wallace, Ph.D., '41

Professor and Department Chairman

One of the departmental areas chosen for strengthening through the NSF-supported Science Development Program was materials chemistry - that branch of chemistry dealing with the preparation and characterization of substances useful in devices and construction. "Materials" includes plastics, semiconductors, metals, ceramics, etc. The materials chemistry group is at present made up of Professors Wallace and Craig, Associate Professor Butera and Assistant Professor Rao. A portion of Dr. Daugherty's work falls in the materials area. Dr. Daugherty is associate professor of analytical chemistry.

The department's long-term materials work is being carried out by Professors Wallace and Craig. It deals with intermetallic compounds, primarily those containing the rare earths. The lanthanide elements are prolific intermetallic compounds formers. In the past 15 years about 500 new rare earth intermetallics have been prepared and characterized and the thermodynamic, structural

fessors Wallace and Craig. Their group has had an international flavor, with personnel from over the entire world--Finland, Norway, Sweden, Germany, Austria, England, Russia, Poland, Holland, India, Japan, Taiwan and Vietnam.

The rare earth intermetallics are of interest both from a fundamental and an applied viewpoint. They exhibit many diverse phenomena resulting from the interplay of the magnetic and crystal field interactions which, in these materials, are often of comparable magnitude. Many of their odd characteristics are of significance only as scientific curiosities, but some of their features make them of very considerable practical significance. For example, SmCo₅, first prepared and studied by doctoral candidate Kurt Nassau and postdoctoral fellow Len Cherry in 1959, is now recognized as the most powerful magnetic material known. It is being used in a variety of devices - motors, generators, meters, watches, traveling wave tubes, etc. Development work to date has involved only a few of the known intermetallics. It is likely that uses will be found for a number of those which have not yet been carefully examined.

Although the work on rare earth intermetallics has involved primarily Professors Wallace, Raymond Craig, and their associates, growing interest in the field has drawn Professor Richard Butera into the area. Professor Rao came to the department to work on rare earth intermetallics in continuation of work begun at the Tata Institute in Bombay. He is currently working on the superconductivity of rare earth intermetallics.

In view of widespread interest in rare earth systems, the materials group has been extensively involved in conference participation and speaking activities. Professors Craig, Butera and Rao contributed four papers to the recent International Rare Earth Conference held in Blacksburg, Virginia. Professor Wallace has lectured in Germany, Israel, Poland and England, as well as in the U.S., during the past twelve-month period. A rare earth conference in Moscow was held in September at which Professor Wallace presented an invited paper covering work of the materials group. Following the conference, he spent three weeks in Rumania as a consultant to a group in Bucharest, beginning work in rare earth intermetallics. Professor Wallace was on sabbatical leave from March to September, 1971. While on leave, he held a visiting professorship at the new Ruhr University in Bochum, Germany. During his sabbatical, Professor Wallace prepared a monograph "Rare Earth Intermetallics," summarizing research results to date in this active field. It is to be published by Academic Press and will appear in late 1972 or early 1973.

acterized and the thermodynamic, structural, electrical and magnetic characteristics have been established by a research group of about a dozen people working under the supervision of Pro-

NEWS NOTES ABOUT FACULTY AND ALUMNI

by
Robert Levine, Professor
Ph.D., 1945, Duke University

FACULTY

Edward M. Arnett (Professor; Ph.D. '49, University of Pennsylvania) directed the Ph.D. research of *F. M. Jones III*, who was a post-doctoral fellow with Dr. Ernest Grumwald at Brandeis University. *Fred Jones* is now employed by PPG Industries. Ned Arnett has completed a three-year term on the Advisory Board of the Petroleum Research Fund. He is on the Committee for Chemical Information of the National Research Council, and presented a plenary lecture at the first Conference in Physical Organic Chemistry which was held in Switzerland this September...*James C. Carter (Associate Professor; Ph.D., '61, University of Michigan)* reports that four of his students have obtained Ph.D. degrees. They are *Norman E. Doughenbaugh* who is now at Mellon Institute; *Larry E. Senor*, in the chemistry department of the Greensburg Campus of the University of Pittsburgh; *Thomas Fielding*, who is at Canevin High School in Pittsburgh; and *Br. Francis Swicker*, F.S.C., now on the chemistry staff of Christian

Brothers College, Memphis, Tennessee. Dr. Carter was program chairman of the 4th Central Regional ACS Meeting in Pittsburgh, May 3-5, 1972. On May 5, he presented an invited paper, at the Symposium on Contemporary Trends in NMR, entitled *Applications of INDOR Techniques to Quadrupolar Nuclei, Assignment of Higher Borane Derivatives...* *Johannes F. Coetzee (Professor; Ph.D., '55, University of Minnesota)* was elected titular member and secretary of the Commission on Electroanalytical Chemistry of the International Union of Pure and Applied Chemistry. Three of Dr. Coetzee's students have recently obtained advanced degrees: *William R. Sharpe (Ph.D.)*, who teaches at Clarion State College; *Richard J. Bertozzi (Ph.D.)*, who now works for Calgon Corp.; and *Ruth Williams (M.S.)*... *Theodore Cohen (Professor, Ph.D. '55, University of Southern California)* informs us that three of his students have been awarded advanced degrees. They are *Michael Swerdloff (Ph.D.)*, who is a postdoctoral fellow with Professor Ronald Breslow at Columbia University; *Katherine W. Smith (Ph.D.)*, who is now doing postdoctoral work with Professor Cohen; and *Ronald Lewarchik (M. S.)*, who is employed by PPG Industries.

ALUMNI GIVING AND THE NEW BUILDING

by
W. Richard Howe
Executive Assistant to the Chairman
of the Department

On behalf of the department, I would like to thank all of you who named the chemistry department as the recipient of your 1971-72 Alumni Annual Giving Contribution. Unless your gifts were earmarked for a specific purpose, they have been deposited in our New Building Fund.

As Dr. Wallace mentioned in his highlights article, the cost of relocating our department is

estimated at \$300,000. This figure includes the disconnects, crating and reconnects of all existing equipment; the installation of the new equipment that we will be receiving from the state; and some minor physical plant modifications that are not included in the original construction contract.

In an attempt to ease the financial pressure that these costs represent to the University, we are seeking contributions from industry, foundations and alumni. Your annual alumni contribution can be used for this purpose by marking your annual giving envelope as shown below. Any support that you can provide will be deeply appreciated.

My gift to PITT through the 1972-1973 Annual Giving Fund is \$ _____

Amount herewith \$ _____ Balance \$ _____ (Payable anytime before June 30, 1973)

Please allocate my gift to:

_____ The College
_____ Graduate Programs (FAS) _____ General Studies
_____ Health Related Professions _____ Public Health
_____ Social Work

Business
 Dental Medicine
 Education
 Engineering
 Pharmacy

Law
 Library School
 Medicine
 Nursing
 GSPIA

Panther Foundation
 Regional Campus
 University Libraries
 Unrestricted
 Other **CHEMISTRY**

Congratulations to *Sam Danishefsky* (Professor, Ph.D. '62, Harvard University) and his former students, *Robert Volkmann*, *James Egglar* and *Dan Solomon* (postdoctoral fellow) who completed the synthesis of dl-camptothecin in July 1971. This compound is a potential anticancer and antileukemic agent. Sam has told us about four of his former Ph.D. students: *Thomas Bryson*, after spending a year as a postdoctoral fellow with Professor W.S. Johnson at Stanford University is now assistant professor at the University of South Carolina; *Lantz Crawley*, after spending a year in the laboratories of E. J. Corey at Harvard, is now a research scientist at Lederle Laboratories; *James Egglar*, after completing a year with Professor Gilbert Stork of Columbia as a NSF postdoctoral fellow, and *Arthur Nagel*, after spending a year in the laboratories of Professor Ernest Wenkert at the University of Indiana, are both research scientists at the Pfizer Laboratories. Dr. Danishefsky has also given a number of invited lectures. He spent a week in Europe giving lectures at Schering A.G. (Berlin, Germany) and at Ciba (Basle, Switzerland). In the United States, he gave seminars at Schering Corp., Hoffmann-La Roche, the University of Michigan, the University of Buffalo, Columbia University, the Workshop on the Synthesis of Natural Products (at Dartmouth College) and Fairmont State College.

Kenneth E. Daugherty (Associate Professor, Ph.D. '64, University of Washington) was invited to present a paper entitled "Air Pollution Control in the Cement Industry" at the 73rd American Engineers National Meeting in Minneapolis in August 1972. He also presented invited lectures at three colleges. At Washington and Jefferson College, his lecture was entitled "Chemistry of Cementitious Materials"; at Capital University, he spoke on "Drug Forensic Chemistry" and at Raymond Walters College of the University of Cincinnati, he spoke on a combination of these talks...*Bodie E. Douglas* (Professor, Ph.D. '49, University of Illinois) tells us about two of his graduate students. *William T. Jordon* (Ph.D., January, 1972) was a research associate at Pitt and, in September 1972, he became a research associate at Washington State University. *John Preston* completed the requirements for the M.S. degree in August 1972, and is now employed in the marketing division of Westinghouse.

Charles A. Hollingsworth (Professor, Ph.D. '46, University of Iowa) informs us that three of his graduate students have been awarded M.S.

"Computer Assisted Instruction Programs in General Chemistry". She is now an instructor of chemistry at Eastern Michigan University in Ypsilanti, Michigan. Jeff has been invited by a number of NSF funded networks to give workshops on the uses of the computer in chemical education. He submitted papers on computers and the undergraduate curriculum to a conference on this topic which was held earlier this year at Georgia Institute of Technology...*Frederick F. Kaufman* (Professor, Ph.D. '48, John Hopkins University) has accepted an invitation to become a member of the editorial board of the new international "Journal of Photochemistry." He was also appointed to the board of editors of the *Journal of Chemical Physics* for the period January 1, 1972 - December 31, 1974...*Robert Levine* (Professor, Ph.D. '45, Duke University) reports that two of his students have been awarded advanced degrees. They are *William Kadunce* (Ph.D.) and *Lawrence Ingram* (M.S.). Bill Kadunce has been appointed instructor of chemistry at Pitt. He lectures in undergraduate organic chemistry and is in charge of all the undergraduate organic laboratories. Larry Ingram is now employed by Firestone Rubber Co. in Akron, Ohio...*Foil A. Miller* (Professor, Ph.D. '42, John Hopkins University) tells us that his research students presented three papers at the 1971 Symposium on Molecular Structure and Spectroscopy at Ohio State University. He gave invited talks at the spring 1972 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, the Pittsburgh Regional ACS meeting, Furman University, the University of South Carolina, and Southern Illinois University. Foil continues to participate each year in the M.I.T. summer course in infrared spectroscopy. Professor Kee Rhee of the Boyce Campus of Allegheny County Community College, who is a visiting research professor at Pitt, worked in the Spectroscopy Laboratories both last summer and this, in a mutually beneficial collaboration.

Two members of Foil's group have been awarded Ph.D. degrees. They are *James Perkins* (Ph.D.), who is now associate professor at Jackson State College, Jackson, Miss., and *Fred Brown* (Ph.D.), who will be a postdoctoral fellow until fall when he enters the law school of Duquesne University...*J. Wayne Rabalais* (Assistant Professor, Ph.D. '70, Louisiana State University) presented an invited paper entitled "X-Ray and Ultraviolet Photoelectron Spectroscopy" at the Pittsburgh Regional ACS meeting on May 5...*Darel K.*

degrees. They are *Eva Chi-Wen Hsu*, who is still here at Pitt; *Larry R. Needs*, now a major in the U.S. Army; and *James E. Williams*, who is employed by Alcoa...*K. Jeffrey Johnson* (Assistant Professor, Ph.D. '68, Washington State University) informs us that *Ms. Ellen E. Tratras* has been awarded the M.S. degree. Her thesis is entitled

Straub (Associate Professor, Ph.D. '61, University of Illinois) informs us that two of his students have been awarded advanced degrees. They are *George Von Nieda* (Ph.D.), who is employed at the Bettis Plant of Westinghouse and *Eugene A. Pasek* (Ph.D.), who is employed by our department as demonstrator and supervisor of laboratory

operations. Darel presented an invited paper entitled "Mossbauer Spectra of Hemichromes and Hemochromes Derived from $\alpha, \beta, \gamma, \gamma$ -Tetraarylporphyrins" at the New York Academy of Sciences Conference on The Chemical and Physical Behavior of Porphyrin Compounds and Related Structures, April 3-6, 1972...*Peter E. Siska* (Assistant Professor, Ph.D. '70, Harvard University) presented an invited paper at the 163rd ACS National Meeting in Boston, Mass., April 10, 1972. His paper was entitled "Determination of Interatomic Forces for the Rare Gases from Crossed Beam Scattering Measurements"...*W. E. Wallace* (Professor and Department Chairman, Ph.D. '41, University of Pittsburgh) tells us that his student, *R. Douglas Hutchens*, has completed his Ph.D. work and is now employed at the Materials Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio...*Irving Wender* (Adjunct Professor, Ph.D. '50, University of Pittsburgh) has been appointed research director of the Pittsburgh Energy Research Center of the Bureau of Mines. Congratulations Irv.

ALUMNI

Leslie H. Andrews (Ph.D. '32) writes that he retired in 1967 from his position as technical director of the Green Bay plant of American Can Co...*John D. Behun* (Ph.D. '57) says that he has been working in the Industrial Chemicals Division of Mobil Chemical Co. in Richmond, Virginia. These laboratories were closed early in 1971, and John was transferred to Mobil Chemical Co. in Edison, New Jersey, as manager of industrial and petrochemicals R and D...*Thomas M. Buck* (Ph.D. '50) informs us that he is still working for Bell Telephone Laboratories in Murray Hill, New Jersey. He is working on ion scattering for the analysis of solid surfaces...*Sujit Chakrabartty* (Ph.D. '64) is associate research officer, Fuel Science Division of the Research Council of Alberta, Canada...*Mary L. Dodds* (Ph.D. '40) tells us that she has been working as professor of food and nutrition at the Pennsylvania State University, and retired in 1963...*B. Blandin Drake* (Ph.D. '43) says that he and *Clifford E. Neubeck* (Ph.D. '43) have been with Rohm and Haas Co. in Philadelphia and Bristol, Pa., in the Enzymes-Biochemistry Laboratories since leaving Pitt...*Harry V. Drushel* (Ph.D. '56) writes that he was recently promoted to senior research associate at Esso Research Laboratories in Baton Rouge,

since retiring he has been living in Sarasota, Florida. His outside interests include golf, church work, and photography.

Wardella Wolford Doschek (Ph.D. '68) is employed by the NSF and is a professional assistant in the Division of Biological and Medical Sciences. Since joining the NSF, she has been serving on the Federal Council for Science and Technology *ad hoc* Committee on Environmental Quality...*Martin W. Farrar* (Ph.D. '50) writes that he has been department manager, research and development, in the Organic Chemicals Division of Monsanto since 1965. Recently, the scope of his responsibilities has been expanded to include world-wide operations rather than just the U.S...*Eugene G. Haas* (Ph.D. '25) retired from civil service work in 1963. He was associated with AF Systems Command, Andrews Air Force Base. He returned to teaching at Union College, Barbourville, Ky., in September 1963, and retired again in August 1969. He then moved to Santa Rosa, California, joining the staff of Santa Rosa Junior College as a part-time instructor.

David Glick (Ph.D. '32) informs us that he is a professor in the department of pathology and head of the division of histochemistry at the Stanford University Medical School. He adds that in 1970-71, he was Macfarlane Visiting Professor at the Royal Infirmary, University of Glasgow, Scotland...*Earl A. Gulbransen* (Ph.D. '34) writes that he is a consulting scientist at the research laboratories of the Westinghouse Corporation in Pittsburgh. He is still active in science, doing research at Westinghouse in high temperature oxidation and corrosion. He says that the main change in the past 37 years is the tremendous pressure for practical solutions to problems which cannot be defined...*Roland A. Haines* (Ph.D. '64), who is associate professor at the University of Western Ontario, informs us that he is currently involved in planning and teaching a new undergraduate course in which the traditional areas of organic and inorganic chemistry are merged into a single unit.

C. G. King (Ph.D. '23) is professor emeritus of the Institute of Human Nutrition of Columbia University. He is a council member of the International Union of Nutritional Sciences (IUNS), and was invited to present a series of lectures at Washington State University during October and November 1971. He also participated in IUNS conferences during 1971 in Tunisia, India, Thailand, Indonesia, Sweden, Finland and Mexico...*Burke Lepp* (Ph.D. '69) is a member of the tech-

Louisiana. During recent years, he served the Baton Rouge Section of the ACS as secretary and chairman. Harry became a grandfather in 1971 when his daughter, Laurel, gave birth to an 8 lb., 12 oz. girl...*Raymond F. Dunbrook (Ph.D. '23)* retired in 1960 as assistant director of research of Firestone Tire and Rubber Co., Akron, Ohio. He says that

Barke Leon (Ph.D. '69) is a member of the technical staff of Bell Telephone Laboratories in Allentown, Pa. He informs us that his second son was born in November 1970...*David K. McGuire (Ph.D. '64)* informs us that he is associate professor of chemistry at Upsala College in East Orange, New Jersey. In September 1971, he was appointed chairman of the chemistry department.

He and his wife and two children covered 7,000 miles on a European camping trip in the summer of 1971...*John Minor (M.S. '46)* is a senior information specialist at the Continental Oil Co., Ponca City, Oklahoma. He says that, with one son a junior at Rice University, another a sophomore at the University of Oklahoma, and a daughter, a senior in high school, he is just trying to maintain equilibrium.

Kurt Nassau (Ph.D. '59) writes that he is a research scientist at the Bell Telephone Laboratories in Murray Hill, New Jersey. He says that he was one of the four speakers at the Plenary Session at the 3rd International Conference on Crystal Growth at Marseille, France, July 1971...*John A. Sanguigni (Ph.D. '60)* has been concerned with possible applications of fiber glass since he joined PPG Industries in 1960. From 1968-70, he was in new produce marketing and, in 1970, he became product manager-rubber reinforcements. He is now concerned with sales and profits for all fiber glass products used in the areas of reinforcing tires, mechanical goods, and molded rubber goods...*Dr. Paul Saunders (Ph.D. '24)*, who has been in the chemistry field for fifty years, writes that he was a classmate of both Dr. Henry Frank and Dr. C.G. King. Most of these years were spent at Alfred University in Alfred, New York...*Sister Miriam Grace Solomon (Ph.D. '42)* is professor of chemistry at Seton Hill College in Greensburg, Pa. She was associated with the department of chemistry at Fordham University, in New York City before going to Seton Hill. From 1962-71, she was an abstractor for Chemical Abstracts.

James K. Sneed (Ph.D. '51) reports that he is process superintendent in the textile fibers department of duPont at Old Hickory, Tennessee. He says: "I'm afraid I use less and less chemistry every day. I still remember enough of what I learned at Pitt to scare most of my subordinates. This doesn't mean that I could pass a test"...*Charles H. Springer (Ph.D. '68)* writes that he is taking a year off from teaching at Earlham

College, Richmond, Indiana, and is becoming involved in the community. This decision was the combined result of frustration with chemistry and his interest in non-violent revolution. He is also involved in free college-level courses on non-violence and the draft...*Michael Strem (Ph.D. '64)* is president of Strem Chemicals, Inc., Danvers, Mass. We extend our best wishes to Mike and his wife on the birth of their first child, Emily, who was born on September 14, 1971...*Martin A. Volkar (Ph.D. '70)* reports that he was promoted to associate professor in September 1971, and is head of the chemistry department at the Allegheny Campus of the Community College of Allegheny County. He and his wife are the parents of a son, Martin Alexander, who was born in March, 1971.

Helmut H. Weber (Ph.D. '34) informs us that he retired in 1969 from Wilson Laboratories in Chicago. He is an active member of the Beverly Hills Tennis Club and the Beverly Art Center. His hobbies are polishing gems, making jewelry, and photography...*James R. Wells (Ph.D. '67)* joined the plastics department of the experimental station of duPont (Wilmington, Delaware) in 1967. He was transferred to the Sabine River Works (Orange, Texas) in July 1970, and, in May 1971, he was promoted to senior chemist...*David Westneat (Ph.D. '56)* is at Wittenberg University where he is associate professor and chairman of the chemistry department. He informs us that he has received his second three-year appointment as chairman of the chemistry department...*E. Oscar Woolfolk (Ph.D. '49)* writes that after 22 years at Central State University (Wilberforce, Ohio), he resigned as vice president for academic affairs, a position he had held for the past three years. He has taken a year's leave of absence from his professorship of chemistry and is now serving as program director of the Institute for Services to Education in Washington, D.C...*Ralph E. Yingst (Ph.D. '65)* writes that he is starting his eighth year at Youngstown University, Youngstown, Ohio, as associate professor. He says that the department has an active M.S. program and would welcome seminar speakers from Pitt.

