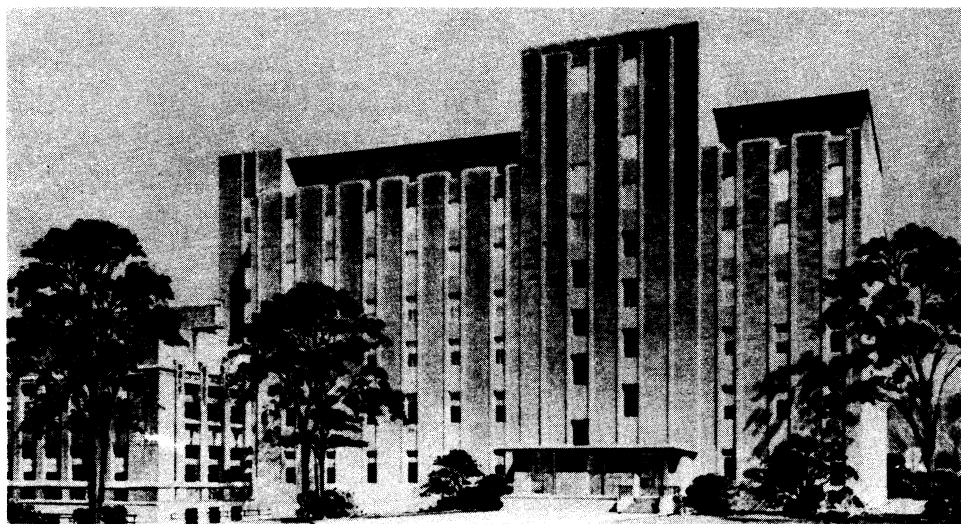


NEWSLETTER

Indiana University Association of Chemists



DIRECTORY INFORMATION PLEASE!

Enclosed is a card to be filled out with information about yourself. We plan to prepare a Directory for the Association soon which can be made available to members. We will appreciate your returning the card promptly with all the facts so we can make the list as accurate as possible. You may mail it in the envelope provided.

At the same time you may wish to send your AIUC dues (\$1) and any contribution you want to make to the AIUC Scholarship Fund. Checks may be made payable to the Association. Also, be sure to include any additional news items concerning yourself and/or other chemistry alumni.

NEWSLETTER

ASSOCIATION OF INDIANA UNIVERSITY CHEMISTS

Vol. XI, No. 1 Bloomington, Indiana March, 1963

Association News

Meetings

The Association met September 10, 1962, at the time of the National ACS meeting in Atlantic City. Joe Leal (PhD'53), American Cyanamid Company, Washington, D. C., was elected President for 1962-63, and Professor Robert B. Fischer was re-elected Secretary-Treasurer. About fifty alumni, wives, faculty and friends gathered for the social hour at the Ambassador Hotel. Professors Harry G. Day and V. J. Shiner, Jr., gave short talks on recent developments in the I. U. Chemistry Department.

During the 143rd National ACS meeting in Cincinnati the Association held a luncheon meeting January 15 in the Netherland Hilton Hotel. Thirteen alumni, faculty, and students attended. Dr. Day and Dr. Haurowitz gave talks on progress and changes in the Department.

The next meeting, a luncheon, will be April 3 in Los Angeles at the time of the National ACS meeting. This will be a good opportunity to meet with our western alumni.

AIUC Scholarship Program

One of the greatest needs in the undergraduate program is additional scholarship funds for the very promising students who simply do not have enough financial support. For some students the problem is so acute they cannot even remain in school throughout an academic year. Some with major financial difficulties continue from one year to another, but they hurt themselves academically through excessive

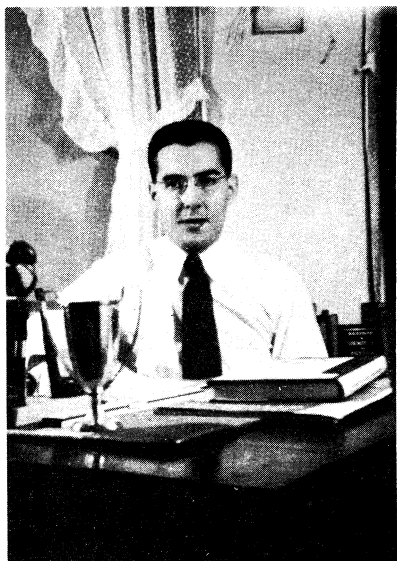
part-time work loads. The general financial assistance program of the University, through the office of Scholarships and Financial Aids and the Student Employment office, is not large enough to help all the deserving students. Therefore the AIUC members can do much to assist, especially in chemistry.

Through the use of \$1650 of AIUC funds support is being given to the following freshmen and sophomores this year: William R. Fortner, Campbellsburg; R. JoAnn Gibson, Austin; Rowena E. Hahn, Peru; James M. Mitchell, Bloomington; Peter G. Phillips, Bedford; and Anita S. Rohrer, Amboy. Most of these scholarship recipients are also receiving some other types of assistance and recognition through other funds administered by the office of Scholarships and Financial Aids. Because juniors and seniors have greater proficiency in chemistry several of such upperclassmen are given assistance, and valuable experience, through part-time employment in research laboratories. At present over 20 upperclassmen are receiving such benefits. Several others are employed in the stockrooms.

The recipients of the special Dow Chemical Company scholarships are Wolfgang R. Bley, sophomore, of Crown Point and Bryan L. Moss, freshman, of Corydon. These scholarships furnish \$500 per recipient per year as long as he makes excellent progress while working toward a degree in chemistry or in an allied science.

If the funds for 1963-64 are adequate we will award the following AIUC Scholarships: Five for promising freshmen, who plan to work toward a degree in chemistry or in an allied science, and seven for sophomores, junior and seniors who are majoring in chemistry. Five will pay \$500 each and the remainder will provide \$300 each. Since the cost of attending the University is now at least \$1350 per academic year this support, although extremely helpful, will be only a partial solution of the problems of some of the fortunate students who will receive it.

Contributions of \$10-\$100, or even many gifts of lesser amounts, will make the entire plan become a reality. Some of the AIUC members are regularly taking advantage of their company's policy of matching contributions for such educational purposes.



Joseph R. Leal, our Association President for this year, is a native of New Bedford, Massachusetts. He started his chemical career at the New Bedford Technical Institute where he completed a three-year chemistry course. He then gained industrial experience with Corn Products, Inc., at Edgewater, New Jersey, and was an analytical chemist with the Revere Copper and Brass Works at New Bedford. He also served with the Army Chemical Warfare Service at Camp Detrick, Maryland, after which he entered the University of Massachusetts, completing work for the B. S. degree in 1949. At I. U. he studied

under the direction of Professor E. Campaigne and received the Ph. D. in 1953 in organic chemistry with minors in analytical chemistry and biological chemistry. He then joined the American Cyanamid Company at Bound Brook, New Jersey, and was transferred to the Washington, D. C., office of the company in 1958 as technical representative. The Leals have four children.

News of the Department

Two of the faculty members are on leave. Dr. Mahler, in France since last June, will return this fall. Dr. Merritt left recently for six months in Paris. He is to carry on research at the Centre National de la Recherche Scientifique.

The Department now has two new electron microscopes to aid its research programs. One is the Hitachi model which has been installed in the analytical research laboratories on the top floor of Kirkwood Hall. It is being used primarily for studies of mechanisms of precipitation and related phenomena and for some instructional purposes. The second instrument, a Siemens model, was obtained through the Advanced

Research Projects Agency of the Department of Defense. It is being used for research on the solid state. Dr. Jens Traetteberg, who is carrying on research with Professor Walter Moore, has prepared the instrument for operation and is supervising its use. Dr. Traetteberg came to I. U. last November from the Institute of Theoretical Chemistry of the Technical University of Norway at Oslo, where he was an instructor and had wide experience in the use of electron microscopes. The Department has also obtained a Nuclear Magnetic Resonance Spectrometer, Model A60, and a Varian Electron Paramagnetic Resonance Spectrometer. These instruments, along with the HR60 NMR acquired two years ago, have enabled research to be carried on which was not formerly possible. They are used extensively in many projects.

A unique home industry has been developed during the past few years in Bloomington which provides a special service in the field of electronic instrumentation. This is the Indiana Instrument and Chemical Corporation which manufactures chemical analytical devices for which there is urgent demand but which are of such specialized use that large scale production is not feasible. It was developed by Professors L. L. Merritt, R. B. Fischer and W. B. Schaap, and it is operated in their spare time. (L. to R.)



The small firm has provided part-time work and valuable experience in electronic instrumentation for several graduate students in chemistry and a few employees of the electronics industry in Bloomington.

At the time this is being written Dr. Campaigne, Graduate Adviser for the Department, has received over 500 requests for application forms and information about admission to graduate work in chemistry. Many applications have been completed. There are over 120 graduate students in the Department this year. About twenty are hopeful of completing

work for advanced degrees by June. Two expect Master's degrees and all the others are doctoral candidates. In addition there are 35 post-doctoral chemists devoting full time to research. In the last five years there has been an increase of about 80% in the number of undergraduates studying chemistry.

These statistics explain why we are so eager to have the addition to the chemistry building completed. Dr. Kaslow, who has been in charge of planning for it and who has been watching over its construction with devoted attention, says we will be able to occupy the new space by the time school starts in September.

A grant of \$94,000 has been received from the National Institutes of Health to support the training of students in biological chemistry during the next four years. Dr. Haurowitz, as Chairman of the Division of Biological Chemistry of the ACS this year, had an active part in the meeting held in Cincinnati in January.

An attractive new rewriting of the brochure on Chemistry at Indiana University was published in December. All members of AIUC who would like copies are cordially invited to inform us. We believe it will increase your pride in the Department.

Alumni Notes

Congratulations to Dr. William J. Sparks (AM*29) who has won the 1963 Charles Goodyear Medal of the American Chemical Society -- the highest award in rubber chemistry. He is scientific adviser to the Esso Research and Engineering Company at Linden, New Jersey. At the time the 25th Anniversary of the invention of butyl rubber was commemorated last September the Company also honored him and Dr. Robert M. Thomas for their invention of the process for manufacturing the rubber. During a party to celebrate the occasion Dr. Sparks and Dr. Thomas, his co-worker, were presented with a pint size reactor which produced the first experimental batch of the rubber.

Best wishes to Dr. Jay A. Young (BS*39), Head of the Chemistry Department of King's College, Wilkes-Barre, Pennsylvania. He was

married last fall to Mrs. Mary A. Treacy, the widow of a chemistry professor at Notre Dame University, who completed her work for the bachelor's degree in nursing at I. U. in January, 1962. The Youngs started their life together in a 19-room house in Wilkes-Barre with their 16 children. Dr. Young, a widower, had twelve children 3 to 19 years old, and Mrs. Young's four children were ages 6 to 9. We are sure they will all have a happy and lively time together.

Thedford P. Dirkse (PhD'39) of Calvin College, Grand Rapids, Michigan, received the Research Award of the Battery Division of the Electrochemical Society in September at the meeting of the Society in Boston. His selection for the award was based on his research which he reported in a paper entitled "The $\text{Ag}^0\text{-Ag}_2\text{O}$ Electrode In Alkaline Solution".

Fred A. Griffiths (PhD'36), Maryville College, Tennessee, was general chairman of the 14th Southeastern Regional Meeting of the American Chemical Society at Gatlinburg, Tennessee, in November, 1962. Those who attended reported that the program was excellent. Dana W. Mayo (PhD'59) is now Assistant Professor of Chemistry at Bowdoin College, Brunswick, Maine. The Mayos had two additions to their family in October. The twins are Dana Lawrence and Chapman Scott. Brown L. Murr (PhD'61) was recently appointed to the chemistry faculty at Johns Hopkins University, Baltimore. He is assistant professor.

Edward E. Kennedy (MS'48) was promoted to Assistant Director of Analytical Research at Eli Lilly and Company, Indianapolis, last summer. Guido H. Stempel (PhD'34) was elevated to the post of Administrator of the Research Center at the General Tire and Rubber Company in Akron on 1962. John S. Peake (PhD'35) was recently appointed Supervisor of the inorganic chemistry group at the Physical Science Laboratory of Minnesota Mining and Manufacturing Company, St. Paul. Margaret L. Davis (AB'59), whose home was formerly in Argos, Indiana, received the M.D. degree from I. U. in 1962 and is now interning at Philadelphia General Hospital, Philadelphia, Pennsylvania.

Last November Charles E. Becker (PhD'51), formerly of Chicago,

became Associate Professor of Chemistry in the School of Dentistry, University of Detroit. Lyle I. Gilbertson (PhD'40) has recently established his own consulting service -- R and D Management Services -- in Berkeley Heights, New Jersey. His company specializes in problems of research administration, laboratory design, fiscal control, etc. He was formerly with the Air Reduction Company. Joseph R. Siefker (PhD'60) has joined the faculty of Indiana State College, Terre Haute, as Assistant Professor of Chemistry.

We have new addresses for these alumni: Kenneth H. Shull (AB'50) is in the Department of Biochemistry of the University of Pittsburgh Medical School; Wilson DeCamp (BS'60) is at the Armed Forces Institute of Pathology, Washington 25, D. C.; Morton A. Fineman (AB'41) is with General Atomic, San Diego 12, California; Richard N. Pruett (PhD'34) is now with E. I. duPont de Nemours and Company, Film Department, Wilmington, Delaware; Philip R. Ferguson (MA'48) is teaching at Florida Presbyterian College, St. Petersburg, Florida; R. A. Mulholland (MS'42) is with The Richardson Company, 2700 Lake St., Melrose Park, Illinois; Richard Bayer (PhD'59) at Carroll College, Waukesha, Wisconsin; and R. D. Donaldson (BS'42) is with Toms River Chemical Company, Metuchen, New Jersey.

Several alumni have visited the Department in recent months. Among them were: G. Robert Collins from Dow Chemical Company, Midland, Michigan; William G. Roessler (PhD'50), who is at Fort Detrick, Frederick, Maryland; Herschel Hunt (PhD'29) of the Purdue University Chemistry Department; Glenn Boruff (AB'16), 1575 Marlowe Ave., Lakewood 7, Ohio; Paul F. Bente, Jr., (AB'39), Electrochemicals Department of E. I. duPont de Nemours and Company, Wilmington, Delaware; M. I. Bowman (PhD'37) of the Chemistry Department of Wisconsin State College, Oshkosh; Robert M. Summers (PhD'55), General Electric Company, Pittsfield, Massachusetts; E. D. Raines (PhD'38), who is Head of the Chemistry Department of Kentucky State College, Frankfort; John McDowell (Ph'D60), Allied Chemical Company, Buffalo, New York; Carol Hagans Hehner (AB'21), 1521 S. Cove, Toledo 6, Ohio; Max M. Marsh (BS'47), Ciba Products Company, Chicago; Richard A. Mueller (BS'61), Eli Lilly and Company, Indianapolis. Dale Fisher (PhD'51) of the Oak Ridge National Laboratories visited us in January when he was the first Indiana Instrument and

Chemical Corporation Lecturer in Chemical Instrumentation. His topic was "Applications of Operational Amplifiers in Analytical Instruments". He also gave a seminar lecture on "Recent Advances in Polarography".

New alumni who have left the Department this year to take positions elsewhere are: Donald R. Maulding (PhD '62), who is carrying on research at Ohio State University, Columbus; Richard L. Wells (PhD '62), who is teaching in the Chemistry Department of Duke University, Durham, North Carolina; Richard Y. Wen (PhD '62), with Dow Chemical Company, Midland, Michigan; Sam Berkowitz in Akron Ohio; Martin L. Thompson, a chemistry instructor at Lake Forest College, Illinois; Bam Mehrotra, at the Institute for Enzyme Research, University of Wisconsin, Madison; Robert E. Ensmen (MA '62), at Rose Polytechnic Institute, Terre Haute, Indiana; Jack Gill (PhD '63), with Monsanto Chemical Company -- his home address is 10414 Four Winds Ct., St. Louis 14, Missouri; Richard Enrione (PhD '62), carrying on postdoctoral research at Harvard University -- home address, 109-B Fayette St., Watertown 22, Massachusetts; Richard W. J. Carney, who recently finished the requirements for the doctor's degree from Iowa State University here under Dr. Wenkert, now working with the Ciba Pharmaceutical Company, Summit, New Jersey; Leo Fedor, carrying on research at Cornell University, Ithaca, New York. Among postdoctoral research associates who were recently in the Department are: Ronald J. Baumgarten, who has gone to the Quartermaster Corps, Research and Engineering Center at Natick, Massachusetts; Fausto Schenker, who has joined Hoffmann La Roch, Nutley, New Jersey; Gunter Kuhl, who is now with Socony Mobil Oil Company, Paulsboro, New Jersey; Michael O'Keeffe and Mrs. O'Keeffe (A. Lindner, PhD '58), now assistant professor at Arizona State University, Tempe; and J. Bredenberg, who has returned to his position in Helsinki, Finland.

Joanna Dickey
Editor of AIUC Newsletter
Department of Chemistry, I. U.
Bloomington, Indiana