

During the summer W.B. Schaap will be on the chemistry faculty at UCLA and R. L. Seifert will spend all of his time in research at the Argonne National Laboratories.

F. Haurowitz and M. Carmack plan to attend International Congresses in Europe.

As usual, J. H. Billman and his family will spend the summer in the East. Much of his time is devoted to the beginning courses in organic chemistry and the research program being supported by the American Viscose Company.

C. E. May has been taking advantage of his new freedom as professor-emeritus. With Mrs. May he has spent several weeks in Florida during the late winter and early spring.

Dr. Mathers comes to his laboratory almost every day. He gives lectures occasionally in some of the courses and he helps us in various other ways.

Dr. Brown continues to spend considerable time in his laboratory. He collaborates with C. S. Rohrer in research on catalysts.

During the year R. B. Fischer, F. Mathers and H. G. Day put on several television shows in collaboration with the Division of Radio and Television at I.U. These were concerned with various aspects of chemistry.

In addition to his active teaching and research work, C. E. Kaslow gives much time to the local chapter of a premedical honor society, Alpha Epsilon Delta, of which he is the faculty adviser. Last spring the national convention was held at I.U.

One of V. J. Shiner's major activities during the past year has been the reorganization of the course, Identification of Organic Compounds, and the supervision of the extensive remodelling of the laboratory and stockroom for the course.

J. S. Peake and W. H. Nebergall are co-directors of an active program of research on silanes. The research is sponsored by ONR.

E. J. Bair, who came to us from the University of Washington last fall, is devoting much time to the construction of an elaborate spectrometer to be used in his research on free radical reactions.

The main staff workers who have been with us more than two years include: Jack Baird and Alice Williams (Machine shop), G. Hepley, R. Stuart, and R. Zimmerman (stockrooms), F. Hardy (lecture demonstrations and equipment inventory), E. Sexton (glassblowing), Miss Dickey (microanalytical), Mrs. Warpinski (business office) and Miss Greene (main office).

A considerable number of the alumni will recognize the following names: Mrs. Baugh, Mrs. Creek, Mrs. Wood, H. Beck, R. Peterson, and E. Todd. These are the custodial staff. They, like the staff workers, take real interest in the department. A more loyal and capable group could not be found.

The faculty has done its full share of speaking before various groups this year. In Washington, F. Haurowitz had a major part in a conference of the National Research Council on Red Cell Metabolism and Red Cell Preservation. J. C. Muhler (School of Dentistry and Chemistry) has possibly covered more territory in this country than Mrs. F. D. R. in her best year. This has included the presentation of papers in Miami, Birmingham, San Francisco, Chicago, Washington, and South Bend. W. J. Moore spoke at the University of Minnesota and at the Minnesota Mining and Manufacturing Company. F. T. Gucker, Jr. gave a special lecture at Northwestern University. W. B. Schaap was on the program of the Midwest Regional Meeting of the ACS and H. G. Day participated in the Southeastern Regional meeting at Birmingham. E. Campaigne addressed the local section of the ACS at China Lake, California. R. B. Fischer, R. L. Seifert and W. J. Moore have spoken to high school science clubs in Indiana. M. Carmack addressed the ACS local section at the University of Illinois, and L. L. Merritt spoke at the meeting of the local chapter of Sigma Xi.

As many alumni know, F. T. Gucker, Jr. is chairman of the Division of Physical and Inorganic Chemistry.

A. Kronenberger continues to have charge of the chemistry library and the course, Chemical Literature. One of his distinctive contributions is the maintenance of an attractive bulletin board near the west entrance to the building. On this he displays interesting clippings from C and E News and elsewhere.

Research associates in the department at present are R. Bottle (England, working with F. Haurowitz), B. Douglas (Scotland, working with M. Carmack), C. O'Brien (Ireland, working with W. J. Moore), N. W. Penn (United States, working with F. Haurowitz), and E. Secco

(Canada, working with W. J. Moore). In addition, Wendell B. Cook, University of Connecticut, spent his sabbatical leave last semester working with F. Haurowitz and his group. Also, Chester Davis (B.S. '44) left the Kettering Foundation some time ago and came to I.U. to spend one year in our academic environment. His work is concerned with photosynthesis.

Among the new postdoctorals who will come into the department this year are Geoffrey Parfitt (University, Bristol, England) and Roland Lindner (Chalmers Tekniska Hogskola, Sweden). Dr. Lindner has had about 12 years of experience in radiochemistry which included work with Dr. Otto Hahn.

Two additions to the faculty will be made effective in September. They are Dr. Harrison Shull who received his PhD degree at Berkeley in 1948 and Dr. Henry R. Mahler who also received his doctorate degree at the same time and at the same place. Dr. Shull was assistant professor at Iowa State College from 1949-1954. During the current year he is a Guggenheim Fellow at the University of Uppsala, Sweden, where he is doing exciting work with Professor Löwdin. As many of the alumni may know, Dr. Shull's major research interests are in theoretical aspects of atomic and molecular structure.

Since 1949, Dr. Mahler has been at the Institute for Enzyme Research at the University of Wisconsin. Approximately 40 papers have been published under his authorship. These are largely in the area of biological oxidations and, in particular, on metalloflavoproteins.

The department, as well as the University as a whole, is strongly interested in the improvement of teaching and in the problems of the undergraduates. Last fall the students in general chemistry who appeared to have the greatest ability were placed in special recitation and laboratory sections. Assistants with excellent records were used in these sections and the faculty gave special attention to the students.

Three students with the highest grades in C105 last semester were O.M. Colvin (Princeton), M. N. Greenball (Gary), and R. R. Hawley (South Bend). The first two were awarded copies of the Handbook of Chemistry and Physics. These were donated by the Chemical Rubber Company. Mr. Hawley was given a Lange Handbook of Chemistry. The latter was furnished by F. C. Schmidt. All three of the boys had been in special sections.

One of the seniors, Robert Davis (Valparaiso), has done such excellent work in senior research this year that he will be the co-author of a paper, with M. Carmack, at the ACS meeting in Cincinnati. His major encouragement to work in chemistry came from F. Schmidt.

Perhaps the most interesting and significant recent change in the curriculum is the chemistry seminar for third year chemistry majors. This was started last spring and it is proving to be a real stimulus to the students. Twenty are enrolled at present. Different members of the faculty talk to the students about their research interests and the professional aspects of chemistry.

The department is taking an active role in the problem of stimulating greater interest in chemistry. This includes attention to the encouragement of physical science teaching in the secondary schools. Several students have been encouraged to work toward the degree, Master of Arts for Teachers. The Standard Oil Foundation has renewed its summer fellowship program for such students and the duPont Company has given the University two \$1200 fellowships for persons preparing to teach chemistry, mathematics or physics.

The Armstrong Cork Company has begun a long-term fellowship program at I.U. Graduate students in chemistry and physics are eligible for the generous awards.

The Dow Chemical Company and Procter and Gamble are continuing their substantial support.

DuPont's support of a teaching associate in chemistry will be continued next year. Paul Graham is the present recipient. Also, duPont is continuing the support of a younger faculty member during the summer months. E. J. Bair will have the duPont faculty fellowship in 1955.

Faculty advisers for the student chemistry organizations are: Alpha chi Sigma, R. L. Seifert and V. J. Shiner, Jr.; Student Affiliates, C. S. Rohrer; and Phi Lambda Upsilon, M. Carmack.

Some remodelling in the chemistry building during recent months has included the enlargement of the machine shop. This was accomplished by the construction of a partition across the north end of the short corridor to the shop. The new space will be used for the storage of supplies.

Several months ago we published a new brochure on Chemistry at Indiana University. Alumni who desire a copy and who have not received one should write for it.

Visitors to the Department since last September have included Roland Lindner, Chalmers Tekniska Hogskola, Sweden; Hans Schmid, Universitat Zurich, Switzerland; John R. Totter, Oak Ridge National Laboratory; R. P. Bell, Oxford University, England; Lyman C. Craig, Rockefeller Institute; N. B. Hannay, Bell Telephone Laboratories; Roy Richards, I.C.I. Ltd., England; Robert MacVicar, Oklahoma A and M College; J.V. Quagliano, Office of Naval Research; John T. Blake, Simplex Wire and Cable Company; W. E. Thwaite, Jr., Research Corporation; Howard J. Lucas, C.I.T., California; John E. Willard, U. Wisconsin; C. Hedin, Stockholm, Sweden; and Bruno Zwolinski, ONR.

News of the Alumni

J. Lon Pope, M.A., '52, has been appointed research technician in the tissue metabolism research laboratory at the medical branch of the University of Texas, Galveston, Texas.

Walter and Jackie (nee Jackie Hyberg, M.A., '49) Budde, M.A., '47, announced the birth of boy, Carl Walter, on July 24, 1954. Their present address is 5312 Grand Avenue, Minneapolis 19, Minnesota.

James William Frazee, Sr., M.A., '22, is now retired after working many years for duPont. Present address: R. D. 2, Newark, Delaware. He received a PhD from Cornell in 1927 in electrochemistry. At duPont he specialized in zinc and titanium pigments and acted as consultant in spectroscopy and optical methods of research.

H. Landon Thomas, Ph.D., '52, is the 1954-5 chairman of the Northeastern Indiana Section of the ACS. "Tex" is with the Fort Wayne laboratory of the General Electric Company.

Richard D. Pruett, B.S., '50, completed graduate work at Michigan State College and is now in the film department, research division, of duPont.

Jack K. Walker, M.A., '44, manager of the analytical instrumentation group at the Consolidated Engineering Corporation, Pasadena, California, has been appointed project chief for process control systems.

Frank E. Dolian, Ph.D., '33, manager of the Market Development Department, Commercial Solvents Corporation, addressed the Wabash Valley Section of the ACS this year.

William E. Crane, A.B., '48, recently joined the chemistry faculty at Southern Illinois University, Carbondale, Illinois.

J.F. Treon, A.B., '30, is General Chairman of the Spring Meeting of the ACS this year. J. C. Warner, A.B., '19, M.A., '20, Ph.D., '23, Sc.D. (hon) '54, became President-Elect of the American Chemical Society this year. Congratulations, Jake!

R. C. Bourgeois, Ph.D. '51, is a new member of the patent group at the Sterling-Winthrop Research Institute.

Harry Gatos, M.A., '48, duPont Experimental Station, was the colloquium speaker in March. Mrs. Gatos accompanied him to Bloomington.

H.S. Gutowsky, A.B. '40, is in the physical chemistry division at the University of Illinois. He addressed the Chemistry Colloquium in December.

J. L. Culbertson, M.A. '18, chairman of the Department of Chemistry at Washington State College, hopes to visit I.U. some time.