

NEWSLETTER

Association of Indiana University Chemists

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Association Affairs

AIUC Luncheon at San Francisco

Wednesday, April 16, is the date set for the luncheon, and Jim Schooley will be in charge of the late ticket sales. At the Social Hour, New York City ACS Meeting, September 11 at Hotel Biltmore, about 60 members were present, and Robert Lingle, A. B. '19, was elected President for the present year. The affair was quite informal, so it was not feasible to get the names of all who came.

AIUC Scholarship: Although only slightly over \$600 has been received so far for the AIUC scholarship, the committee has decided to award one of these to a deserving student. You will recall the plan was for the AIUC to use its scholarship funds to assist promising students who were being retarded in school work by heavy outside work schedules required to meet financial needs. We had hoped to establish an investment fund, but now feel it is more logical to use the capital and rely on continued contributions to keep the fund effective.

John Morgan Reed, a promising junior, has been awarded a scholarship of \$150 for the second semester of 1957-58. It is hoped that this award will be reflected in an improvement in his over-all grade record, as it will relieve him of the necessity of extra work. The com-

mittee felt John Reed was the type of student that the AIUC had in mind when the fund was established. He was born in Gary in 1937 and attended Portage Township H. S. where he was President of the freshman class, Vice-President of the sophomore and junior classes, and a member of the Student Council. Since coming to I. U. he has been almost totally self-supporting, relying on summer work in the steel mills and a strawberry crop each year to carry him through. Last year the strawberry crop was poor, thus forcing him to hold four jobs on campus. He worked in the chemistry stockroom, was a part-time spectrographic technician, worked in the laundry room at a dormitory, and sold newspapers in the evening. At the end of his sophomore year he had a 2.25 average in chemistry and a 1.8 over-all average. In addition to maintaining nearly a B average over-all, with A's and B's in chemistry, John was Secretary of Dodds House, and this year he is Governor of Dodds House and a member of the I. U. Foundation Little 500 Committee.

State of the Treasury: Help, Help!

Send your one dollar dues soon. This newsletter is a good one, but big and costly. The Scholarship Fund needs help too. Send contributions (tax-deductible) to Bill Armstrong at the I. U. Foundation, marked for the AIUC Scholarship Fund.

Homecoming: The second reunion of the

members of AIUC began with a luncheon at the I. U. Union Building Friday, October 11. In the afternoon there was a symposium on "The Future Training of the Professional Chemist" in the Chemistry Building Auditorium. At the end of the symposium members and guests gathered for tea at the home of Prof. and Mrs. Harry G. Day --a pleasant opportunity for renewing old acquaintances.

Friday evening members and guests met in the Union Building for a banquet at which about 60 were present. Prof. Day presided and summarized the recent activities of the Chemistry Department. He introduced Mr. Frank Jones of the Alumni Office and Mr. Paul Klinge who is the science liaison of the University with the high schools of the state. Prof. Campaigne gave the Secretary's and Treasurer's reports, and Jack Cook, Ph.D. '44, made his report as outgoing president. The new president was unfortunately delayed in returning from a trip to Europe and could not be present. After the banquet there was a panel discussion on "Should the Future Training of Chemists Be Liberalized?".

On Saturday October 12, the laboratories in the Chemistry Building were open for inspection during the morning. Many attended the Indiana-Iowa football game in the afternoon. Unfortunately, the home team did not cover itself with glory, but it was a colorful and enjoyable occasion anyway. The reunion festivities came to an end with an open house at the home of Prof. and Mrs. Campaigne.

The reunion brought together members from many rather distant points, from a wide range of activities, and from many graduating classes. Chancellor Alter came the greatest distance--from Denver--but there were visitors also from as far as Maryland, North Carolina, Minnesota, and Missouri. Nearly 20 industrial concerns were represented, and there were al-

most as many members from the academic fields and a few from governmental posts. We were glad to see G. K. Hutcherson, A.M. '12, and to note that many of the classes up to recent years were represented too. It is hoped that another reunion can be held soon.

The symposium and the panel discussion on Friday were very interesting and worthwhile. The symposium in the afternoon was moderated by Vice-President Herman T. Briscoe. He introduced the speakers: Chancellor Chester A. Alter, A.M. '28, of the University of Denver, who gave the academic viewpoint on "Future Training of the Professional Chemist"; and A. M. Borders, Ph.D. '37, Minnesota Mining and Manufacturing Company, who presented the industrial viewpoint.

The speakers were agreed that the primary aim of a university should be to educate along broad basic lines and not to train too specifically. They felt that the student who has acquired a good foundation in the fundamentals of science and a broad knowledge of the humanities is well equipped to develop his special area later on his own.

Chancellor Alter pointed out that it is hardly possible to know what the professional training of chemists should be since their futures will be so much affected by the nature of the economic and political philosophy of the nation. There is at present a tendency to train for specialization in order to meet manpower shortages rather than for the needs of the individual. He observed that the growing size of educational institutions may tend to lower the quality of education, that the great interest in physical equipment, such as buildings, has made the quality of teaching seem of less importance. Dr. Alter also discussed the problems of the growing divergence between undergraduate and graduate education, the lack of interest in the

art of teaching chemistry, the specialization which interferes with integration of fundamental concepts, and the problem of providing time for the study of the humanities in a scientific curriculum already overcrowded.

Dr. Borders, in presenting the industrial viewpoint, also stressed the importance of good teaching and the relationship between student and teacher. He listed the following as being requirements for a chemist in industry: He should know how to carry on a research program; have an appreciation of economics, be familiar with patent procedures, and be able to use a library; he must have the ability to write and speak effectively. Industry wants men of initiative, intellectual honesty, and integrity. Dr. Borders felt that any program of future training should be made with these requirements in mind.

The panel discussion Friday evening on "Should the Future Training of Chemists Be Liberalized?" was moderated by Dr. Cook of the DePauw University Chemistry Department. Those who took part were Herschel Grose, Ph. D. '51, Marietta College; Wendell P. Metzner, A. B. '33, Monsanto Chemical Company; William F. Kieffer, College of Wooster, Ohio, and Editor of the Journal of Chemical Education; and Frank T. Gucker, Dean of the College of Arts and Sciences, Indiana University.

Dr. Grose discussed the designing of a college chemistry curriculum which would give a student a balanced education and stressed the need for a certain number of courses in the humanities with a broad range of topics. Dr. Metzner listed character, aptitude for experimental work, attitude toward work, and knowledge of subject as qualities industry is seeking in hiring men for research. He felt that the last three qualities are largely developed in the college and that future training programs can develop them to a greater degree. He wondered

what means could be used to develop character also and stirred up some debate on that subject.

Dr. Kieffer pointed out that the role of the scientist in society has become increasingly important and that the fact must be recognized when scientific curricula and training are being planned. Dean Gucker emphasized that a scientist needs to understand the world he lives in--that he should have a feeling for the history of the race, for problems of government and for social problems. He felt that future training of scientists should develop adaptability rather than stress specialization. In the discussion which followed the talks, problems of curriculum arranging were brought up, and the importance of mathematics was stressed. There was some debate about the factors which influence a student to choose chemistry as a profession.

News of the Department

Members of the Department have been engaged in many activities in addition to their teaching schedules during the winter. Prof. Day attended a panel meeting of the National Science Foundation in Washington. He discussed "Planning the Chemistry Curriculum" at the Indiana Academy of Science meeting at DePauw in October and attended the Conference on Engineering and Science Education in Chicago. He also addressed the Terre Haute Dental Society. Prof. Day has recently taken office as President of the Bloomington Kiwanis Club.

Dean Gucker has been appointed consultant to the National Science Foundation for the Advisory Panel for Chemistry for 1957-58, and took part in the meeting in November. He also presided over a meeting of the National Research Council Committee to screen Fulbright applications in chemistry. Prof. Campaigne was elected Treasurer of the Division of Medicinal Chemistry of the ACS for the years 1957-59. He has been appointed to the Indiana League for Nursing

subcommittee on Curriculum Evaluation and Guidance.

Dr. Shull attended the meetings of the American Physical Society in Palo Alto. He is on leave from Indiana University until September, 1959, and has gone to Sweden as Assistant Director of the Quantum Chemistry Group at Uppsala University.

Prof. Haurowitz was elected Chairman of the Ohio Valley Section of the Society for Experimental Biology and Medicine for 1958 and a member of the national council of the society for a period of two years. He participated in the AAAS symposium in Indianapolis on Biosynthesis of Proteins. He was also invited to speak to the staff of the Beckley Memorial Hospital, Beckley, West Virginia. Dr. Haurowitz and Dr. John Hawkins, Visiting Scholar from England, attended the Tenth Protein Conference, devoted to Serological and Biochemical Comparisons of Proteins, at Rutgers University.

Prof. Mahler was one of fourteen leading biochemists who met at the Ohio Agricultural Experiment Station in October for a conference on the importance of trace elements in nutrition. He also spoke at a Biochemistry Seminar at North Carolina State University and addressed a Colloquium of the Department of Chemistry at Iowa State College.

Dr. Isaias Raw, Head of the Enzymological Laboratory and Assistant Professor in the Department of Biological Chemistry at the University of Sao Paulo, Brazil, is here as a Special Fellow of the Rockefeller Foundation to collaborate with Prof. Mahler.

Prof. Kaslow gave a paper in collaboration with Bernard Buchner at the Chemistry Section of the AAAS in Indianapolis. He also took part in the premedical education panel of the

Symposium on Premedical and Pre dental Education sponsored by the premedical honor society, Alpha Epsilon Delta. Prof. Schmidt spoke to the Physical Chemistry Section of the AAAS.

Dr. Fischer presided over the chemistry section of the meetings of the Indiana Academy of Science. Prof. Carmack, who is on leave from teaching this semester, participated in a meeting of the fellowship committee of the National Research Council, National Academy of Science. Dr. Shiner addressed the Cincinnati University Chemistry Department on his research project. Prof. Moore has been appointed advisory editor for Dodds, Mead and Company.

Mrs. Elizabeth Beatty, A.B. '02, I. U. 's oldest alumna, died this winter at the age of 92. She was the only woman chemistry major in her class. In July 1956 she received the diamond and ruby pendant traditionally worn by the oldest living I. U. alumna.

Conference on Hyperconjugation

This department is again planning one of the conferences on special topics which have previously been so successful. On June 2-4, 1958, a Conference on Hyperconjugation will be held on the campus, and will bring together a selected group of active research workers in this field. The program planned by Dr. V. J. Shiner, Jr., includes talks by R. T. Arnold, R. W. Taft, W. M. Shubert, A. Streitwieser, R. S. Mulliken, M. Kreevoy, C. C. Price, A. Lien, S. Winstein, E. S. Lewis, E. Berliner, R. W. Turner, and from England, P. D. de la Mare, J. W. Baker, and M. J. S. Dewar. Any interested alumni are invited to correspond with either of the co-chairmen, Dr. V. J. Shiner or Prof. E. Campaigne, regarding invitations to the conference.