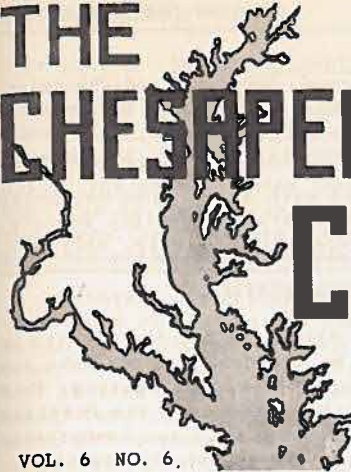


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THE CHESAPEAKE CHEMIST



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THE SEPTEMBER MEETING

The Maryland Section of the ACS will hold its first meeting of the autumn on Friday, September 29, at 8:30 in Remsen Hall on the Johns Hopkins campus. Dr. Lyman C. Craig, of The Rockefeller Institute, will discuss "Basic Concepts in Fractionation".

Dr. Craig is an Iowan, born and raised on an Iowa farm and a graduate of Iowa State College, where he received the Ph.D. degree in 1931. He was then granted a National Research Council Fellowship for further study in the laboratory of Professor E. Emmet Reid at The Johns Hopkins University. The many friends Dr. Craig made in Baltimore will welcome him back for this visit.

Dr. Craig was appointed an assistant at The Rockefeller Institute in 1933, and his rank has increased steadily to his appointment as a Member in 1949. His research career began in synthetic organic chemistry in the preparation of nitrogen heterocyclics with insecticidal properties. At The Rockefeller Institute he undertook, under the direction of Dr. W. A. Jacobs, problems of the structures of the alkaloids of ergot, veratrine and aconite.

Such work required the development of small scale methods of crystallization, distillation and extraction for separating complex mixtures. During the war additional stimulus was given to precise fractionation by the need for more rigid proof of purity of certain synthetic antimalarials. This led to the technique now called "countercurrent distribution", which permitted isolation of metabolic products from biological fluids of patients receiving antimalarials. It is now being used extensively for characterizing and isolating antibiotics, hormones, higher polypeptides, fatty acids and like substances.

In connection with his discussion of "Basic Concepts in Fractionation" Dr. Craig will remind us that our ability (to page 2

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PLANS FOR THE NOVEMBER MEETING

Announcement of the general plan of action for the meeting on Friday, November 19, has been made by Dr. George Hager, who has general supervision of this experimental type of meeting. This will be a divisional meeting at which members of the Maryland Section will present papers. Four divisions will run concurrently, in organic, inorganic and physical, analytical and industrial. The program will consist of papers submitted by members at large and papers by special invitation. Members of the Section who wish to present papers should communicate with the Chairman of the Section, Dr. A. H. Corwin, Department of Chemistry, The Johns Hopkins University, Baltimore 18, by Saturday, October 14, submitting the title and an abstract of the paper and specifying the division in which it is to be presented. In general, fifteen minutes will be allotted for the delivery of the paper, which may be either a report on original research or a brief review of a recent valuable development in chemistry. The Chairman will welcome any suggestions about the operation or content of this meeting. Final decisions as to papers selected, order of presentation and such matters will be made by the Program Committee. There are also tentative plans to hold an instrument show after this meeting, and Dr. Corwin will welcome any suggestions from members about this phase of the program.

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from page 1) The September Meeting

to characterize and study substances is no better than our ability to separate the mixtures, synthetic and natural, which we encounter. For this it is essential to understand systematic fractionation and particularly column fractionation. Dr. Craig will discuss the mathematical and experimental approaches to the problem in terms of continuous and discontinuous processes. A discontinuous fully automatic extraction train (column) is currently in operation which contains 220 extraction cells and is capable of applying the equivalent of a thousand or more theoretical plates to a given separation. The relationship of this process to truly continuous processes such as distillation, chromatography and ion exchange will be discussed. A number of actual separations of fatty acids, amino acids and polypeptides will serve as examples.

A dinner in honor of Dr. Craig will be held at the Johns Hopkins Club at 6:30. Reservations should be made before noon on Thursday, September 28, with Dr. Charles E. Brambel, Mercy Hospital, Baltimore 2, SARatoga 5400, extension 24.

from page 3) Executive Committee Notes

Dr. Corwin presented the question of editor of THE CHESAPEAKE CHEMIST, in view of Dr. Otto's having submitted her resignation. Following discussion, it was agreed that the Executive Committee would assume the responsibility of providing suitable persons to assist the editor. Under these circumstances, Dr. Otto agreed to continue as editor. In response to her queries as to content, the Executive Committee praised Dr. Otto for her policies in the past and suggested that these policies be continued in the future.

Dr. Corwin brought up the matter of soliciting from members an expression of interest in participation in committee work and in selection of topics and speakers for general and divisional meetings, as suggested by Dr. Otto on the basis of Southern California Section practice. It was agreed that some means should be found (whether by questionnaire or otherwise) of discovering which of our members are interested in participating more actively in Section affairs. It was suggested that, to save embarrassment, each member be asked to propose members other than himself for membership on committees.

Dr. Corwin raised the question of the desirability of encouraging non-A.C.S. members to join the Section as associates. It was agreed that this should be done and should become another activity of the committee on membership.

Dr. Hartford brought up again the matter of radio programs. A committee consisting of Messrs. Hartford, Herculson and Wilson was appointed to study the matter and to make recommendations at the September meeting of the Executive Committee.

H. H. Lloyd, Secretary

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COURSES FOR CHEMISTS IN THE FALL SEMESTER

Maryland universities will include in their extensive programs for evening hours some courses for those who wish to undertake work in chemistry and related fields. At McCoy College at The Johns Hopkins University there will be classes in the usual undergraduate chemistry courses and in advanced organic and analytical organic chemistry. Courses will also be available in mathematics (the usual foundation courses and advanced calculus, vector analysis and function theory), in general physics and electricity and magnetism, in chemical engineering (unit operations, chemical plant design, electrochemistry, instrumentation, and paint, varnish and lacquer technology) and in German, Russian and French.

The University of Maryland will offer at the Baltimore Schools courses in general chemistry, identification of organic compounds, advanced biochemistry, colloid chemistry and bacteriology. The University will also offer classes beyond the basic undergraduate training for chemists at Annapolis (advanced mathematics for engineers and physicists, modern physics and another advanced physics course) and in the Edgewood-Aberdeen area (advanced calculus). Courses in French and German will be available at Camp Detrick, Edgewood-Aberdeen and Fort Meade.



NEXT MEETING September 29 TIME 8:30 P.M.
PLACE Room 404, Remsen Hall, Johns Hopkins,
Charles & 34th Streets
SPEAKER Dr. Lyman C. Craig
SUBJECT Basic Concepts in Fractionation
DINNER 6:30, The Johns Hopkins Club,
Charles & 34th Streets.

The dinner is open to members and their guests.
The meeting is open to any who are interested.

Dr. Craig

EXECUTIVE COMMITTEE NOTES

The Executive Committee met on May 16th at the home of Dr. and Mrs. Alsoph Corwin, with the chairman presiding and fourteen members present.

Dr. Cooke reported progress for the committee on national nominations and awards. Dr. MacRae has been proposed to the A.C.S. Committee on Nominations for the Council Policy Committee, and Dr. Clark for Director-at-large. Nominations are being considered for a number of Society Awards.

Dr. Rueggeberg discussed his suggestion, previously made, that an award should be initiated to honor chemists engaged in government service or under contract with the government. Because of the secrecy restrictions necessarily imposed upon them, these chemists may not get consideration for existing Society Awards. Such an award could be administered by a group selected from some of the committees of the Research and Development Board, whose members have access to what is being done, and by whom, in government service or under government contract. Dr. Corwin suggested that the A.C.S. itself might appropriately propose the award. Dr. Otto suggested that a means of supporting the award should first be found. Dr. Rueggeberg expressed the hope that the government might support it.

Dr. Corwin brought up the matter of hospitality at meetings, which is perhaps a function of the committee on membership. New members should be introduced, and fellowship promoted. Dr. Costa suggested a "host" committee to serve refreshments and organize a social hour following the meeting. There was general discussion of a place more suitable than the meeting room, such as the corridor. Dr. Andrews suggested the use of posters and similar devices. It was agreed that Dr. Costa would take charge of this activity in the fall and that the use of pocket cards would be continued.

Dr. Hager reported progress for the committee on special interest groups. He presented the plans being used by the Chicago, Washington and Philadelphia Sections. It was decided to try the Washington plan of replacing the regular meeting with divisional groups meeting concurrently, each group offering papers by Section members. The Secretary is to tabulate interests shown on the yellow cards. In September the Executive Committee will select division chairmen, looking toward a divisional groups meeting in November. (to page 3