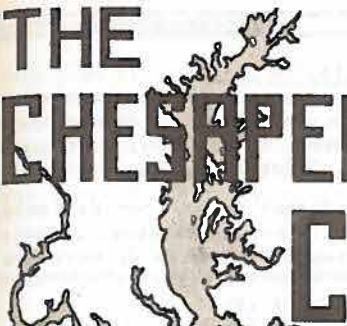


THE CHESAPEAKE CHEMIST



NOVEMBER 1951

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THE NOVEMBER MEETING

The Maryland Section will hold its next meeting on Friday, November 16 (note the early date, before Thanksgiving holidays interfere). At that time we will welcome one who was for a number of years one of the Section's outstanding chemists, and its Chairman in 1942 - Dr. Paul H. Emmett. Dr. Emmett, who is one of the world's authorities on heterogeneous catalysis, kinetics and contact catalysis, will discuss "Mechanism Studies on the Catalytic Synthesis of Hydrocarbons from Carbon Monoxide and Hydrogen". Election of officers for the Section for 1952 will also be held at this meeting. Nominations are presented on page 2 of this issue.

Dr. Emmett is a native of Oregon, and received his B.S. degree in chemical engineering from Oregon State College and a Ph.D. in physical chemistry at the California Institute of Technology. After a year's teaching at Oregon State College he joined the staff of the Fixed Nitrogen Research Laboratory, U.S. Department of Agriculture, and for eleven years was in charge of the catalytic research work on ammonia synthesis, water gas conversion and other processes. During the period 1937-1943 he was Professor of Chemical Engineering at The Johns Hopkins University. From August 1943 to December 1944 he was employed by the Manhattan Project at Columbia University. In December 1944 he joined the Mellon Institute on the Petroleum Refining Fellowship to undertake fundamental research on the mechanism of catalytic reactions.

The research work of Dr. Emmett has included extensive studies in gas-solid adsorption, heterogeneous catalysis and the measurement of heterogeneous gas-solid equilibria and kinetics. He has been a member of the National Research Council's Committee on Contact Catalysis and is now one of the associate editors of the Journal of the American Chemical Society. (to page 3)

Section Officers

Chairman Charles E. Brambel, Mercy Hospital, Baltimore 2
 Vice-chairman Leslie Hellerman, Department of Physiological
 Chemistry, Johns Hopkins School of Medicine, Baltimore 5
 Secretary-Treasurer H. H. Lloyd, Goucher College, Baltimore 4

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 Editor: Belle Otto, Goucher College, Baltimore 4, Maryland.

ELECTION OF OFFICERS FOR 1952

The Bylaws of the Section provide for a Nominating Committee, to be appointed by the Chairman. The Committee for 1951 consists of Channing W. Wilson, chairman, Giles B. Cooke, William H. Summerson, C. Jelleff Carr, Alsoph H. Corwin and H. H. Lloyd, ex-officio. This Committee has submitted the following report to Chairman Brambel:

"The Nominating Committee appointed to select and propose the names of candidates for the offices of the Maryland Section for 1952 has held two meetings, and has deliberated very seriously and extensively on the subject with which it was charged. As a result, we nominate and recommend the following list of candidates:

For Chairman	Leslie Hellerman, Johns Hopkins School of Medicine
Vice-chairman	Winslow H. Hartford, Mutual Chemical Company
Secretary	H. Huntley Lloyd, Goucher College
Treasurer	Edward A. Metcalf, Department of the Army, Chemical Corps
Councilors	Alsoph H. Corwin, The Johns Hopkins University (3-year term) Giles B. Cooke, The Crown Cork and Seal Company (1-year term, provisional)
Alternate Councilors	C. Jelleff Carr, School of Medicine, University of Maryland (3-year term) J. E. Ahlberg, Davison Chemical Corporation (1-year term, provisional)
Executive Committee, Members-at-Large *	Evans B. Reid, The Johns Hopkins University George P. Hager, School of Pharmacy, University of Maryland John L. Straughn, Western Maryland College William H. Summerson, Department of the Army, Chemical Corps Lloyd C. Felton, Hynson, Westcott and Dunning

"We have two Councilors whose terms have not terminated - Belle Otto and Duncan MacRae. Similarly, the terms of Winslow Hartford and Sylvan Forman as Alternate Councilors are not yet completed. (to page 3

**Editor's note: The Executive Committee also includes all officers, Councilors, Alternate Councilors and resident past Chairmen of the Section

from page 2) Election of Officers for 1952

"Provisional nominations of one Councilor and one Alternate were made to provide for the possibility that the Section will be entitled to four Councilors next year, in view of the change in basis of representation passed at the recent Council meeting in New York. These nominations were made for a term of one year.

"I am happy to report that all nominees have signified their willingness to accept the duties and responsibilities of the various positions if elected.

"You will also observe that, following the recommendation of the Executive Committee that the responsibilities of Secretary and Treasurer be divided between two persons, a candidate is proposed for each of these offices.

Yours very truly,

Channing W. Wilson

Chairman, Nominating Committee

Elections will be held at the November meeting. Our Bylaws provide for further nominations from the floor, but anyone making such nominations must have the prior assurance of the nominee that he will serve if elected.

* * * * *

from page 1) The November Meeting

Dr. Emmett is therefore eminently qualified to discuss mechanism studies on the catalytic synthesis of hydrocarbons. For the last twenty-five years or more processes have existed for the synthesis of gasoline and other hydrocarbons by passing carbon monoxide mixtures over suitable solid catalysts. Only recently, however, has definite experimental evidence been obtained that throws light on the mechanism by which the catalysts function. The November lecture will summarize the nature and significance of all of these recent mechanism studies, including those that have made use of radioactive carbon as a tracer. In addition, an attempt will be made to point out the application to these catalysts of some of the newer ideas relating catalytic activity to the electronic characteristics of the metallic catalysts.

Preceding the lecture, the Section will hold a dinner in honor of the speaker. Dinner will be served at 6:30 at the Johns Hopkins Club on the Homewood campus, and is open to members of the Section and their guests. Reservations should be made by Wednesday noon, November 14, with Dr. Leslie Hellerman, Department of Physiological Chemistry, Johns Hopkins School of Medicine, Baltimore 5, phone ORleans 4700, or with the secretary, Mrs. Corliss at the same number.

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Editor's lament: Newsworthy events for THE CHESAPEAKE CHEMIST do not come parceled out in nine equal installments from September to May, as does space on these pages. Hence the Editor gets behind, and is behind now, in reporting what is happening to local chemists. There is a page-full of news waiting, but we hope to publish it in the next issue.



Dr. Emmett

NEXT MEETING November 16 TIME 8:30 P.M.
PLACE Room 101, Remsen Hall, Johns Hopkins
Charles & 34th Streets
SPEAKER Dr. Paul H. Emmett
SUBJECT Mechanism Studies on the Catalytic
Synthesis of Hydrocarbons from CO₂ and H₂
DINNER 6:30, The Johns Hopkins Club
Charles & 34th Streets
The meeting is open to any who are interested.
SAVE Friday, December 14, for the next meeting.

MEETINGS OF INTEREST TO MARYLAND CHEMISTS

All of the meetings mentioned below are open to anyone interested, without charge, and all are cordially invited to attend.

Dr. Britton Chance, Director of the Johnson Foundation at the University of Pennsylvania School of Medicine, will speak at the December 14 meeting of the Maryland Section of the ACS. He is renowned for his studies in enzyme chemistry, and will speak on some brilliant new approaches in enzyme catalysis.

The Johns Hopkins University Chapter of Sigma Xi will hold its first meeting of the winter on Monday, November 19, at 8:30 in Room 110, Maryland Hall on the Homewood campus. The speaker will be Dr. Alphonse H. Corwin, well known to Maryland chemists, who will discuss "Exploring Porphyrin Chemistry".

Dr. James Bryant Conant, President of Harvard University and a chemist of note, will deliver the Stimson Lecture at Goucher College on Thursday, November 29, at 8:15 in Catherine Hooper Hall, St. Paul and 24th Streets, Baltimore. Dr. Conant's subject will be "Science and Invention in Eighteenth Century England".

The Catalysis Club of Philadelphia, in which many Maryland chemists are interested, will meet on Wednesday, November 14, at 8:00 P.M. in the Lecture Hall of Harrison Laboratory, University of Pennsylvania. This is located at 34th and Spruce Streets in Philadelphia. Dr. P. W. Selwood of Northwestern University will address the Club on "Magnetic Susceptibility and Catalysis". Anyone wishing more information should consult Dr. Stephen S. Hubbard of The Davison Chemical Corporation, Baltimore.

The Maryland Section of the American Institute of Chemical Engineers, at their meeting on Tuesday, November 13, will have as their speaker Lt. Col. Fred Bellinger of the Chemical Corps, U.S. Army, who will discuss "Development of Chemistry and Chemical Engineering in the United States". The December meeting will be held on Tuesday, December 11, when the Freeport Sulfur Company film "Yellow Magic" will be shown. Both meetings will be held at 8:15 in the Sherwood Room, Levering Hall, The Johns Hopkins University Homewood campus.

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