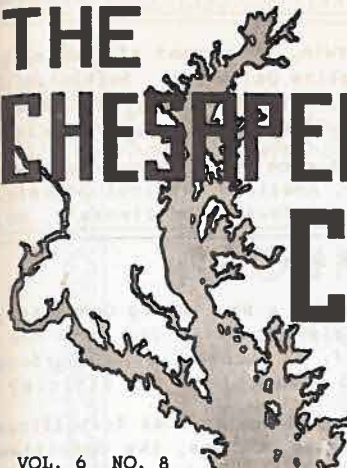


NOVEMBER 1950

THE CHESAPEAKE CHEMIST

PUBLISHED BY THE
MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY



VOL. 6 NO. 8

THE NOVEMBER MEETING

The next meeting of the Section will be held November 17 at the Remsen Laboratories at Homewood and will be devoted to papers presented by members of the Section. This program represents an innovation for the Maryland Section, and it is the hope of the members of the Executive Committee that it will prove a successful venture. Those on the Committee are anxious to learn the opinions of Section members about the success of this type of program and the desirability of repeating it next year. The project this year has been under the able direction of Dr. George P. Hager and his committee, and Maryland chemists are indebted to them for much thoughtful planning and hard work.

The Section will assemble in Room 101 of Remsen Hall for a business meeting at 8:30. The principal item of business will be election of officers for 1951. The nominations made by the Nominating Committee appear on page 2 of this issue. After the business meeting the Section will break up into groups, and guides will conduct members to the various meeting rooms. Four sessions will run concurrently. The program of papers to be presented is printed in full on pages 3 and 4 of this issue.

The presentation of papers will be followed by an instrument show which will be held in one of the laboratories in Remsen Hall. Refreshments will be served in the laboratory.

A dinner for members of the Section will be held at the Johns Hopkins Club at 6:30. Reservations should be made before noon on Thursday, November 16, with Dr. Charles E. Brambel, Mercy Hospital, Baltimore 2, SARatoga 5400, extension 24.

Section Officers

Chairman Alsoph H. Corwin, Department of Chemistry,
The Johns Hopkins University, Baltimore 48
Vice-chairman Charles E. Brambel, Mercy Hospital, Baltimore 2
Secretary-treasurer H. H. Lloyd, Goucher College, Baltimore 4

THE CHESAPEAKE CHEMIST is published each month from September through May by the Maryland Section, American Chemical Society.
Editor: Belle Otto, Goucher College, Towson, Baltimore 4, Md.

ELECTIONS FOR 1951

The Bylaws of the Section provide for a Nominating Committee, to be appointed by the Chairman. This Committee for 1950 consists of Giles B. Cooke, Chairman, J. E. Ahlberg, W. B. Burford III, C. J. Carr, Duncan MacRae and H. H. Lloyd (ex officio).

The Nominating Committee has completed nominations for offices to be filled for 1951. In making the selections, the Committee considered a number of members for each office and each nominee was chosen by unanimous agreement. It is possible that the Maryland Section will be entitled to four Councillors next year. Decision about this will not be made until December 1, but the Nominating Committee has proposed a Councillor and an alternate Councillor, each for a term of one year, in case a fourth Councillor is to be elected.

There are a number of outstanding members who will hold no office in the Maryland Section in 1951. The Nominating Committee recognizes the ability of these members and the services they are rendering the Section, but the number of officers in our group is limited. It is not possible, in one year, to reward all of our outstanding members by nominating them for office.

The nominations proposed by the Committee are as follows:
Chairman: Charles E. Brambel, Mercy Hospital
Vice-chairman: Leslie Hellerman, The Johns Hopkins School of Medicine
Secretary-treasurer: H. H. Lloyd, Goucher College
Councillor for 3 years (1951-1953): Belle Otto, Goucher College
Alternate Councillor for 3 years (1951-1953): Sylvan H. Forman, United States Industrial Chemicals, Inc.
Alternate Councillor for Dr. Hellerman's unexpired term (1951-1952): Winslow H. Hartford, Mutual Chemical Company
Councillor for a term of 1 year, if a fourth Councillor is to be elected: Alsoph H. Corwin, The Johns Hopkins University
Alternate Councillor for a term of 1 year, if a fourth Councillor is to be elected: J. H. Ahlberg, Davison Chemical Corp.
Members of the Executive Committee, to serve for 1951:
George P. Hager, The University of Maryland
Stephen S. Hubard, Davison Chemical Corporation
E. H. Metcalf, Army Chemical Center
Evans B. Reid, The Johns Hopkins University
John L. Straughn, Western Maryland College

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.



GROUP MEETING
PROGRAM



MARYLAND SECTION

*American
Chemical
Society*



NOVEMBER 17, 1950

PROGRAM

General Meeting: Room 101, Remsen Hall, The Johns Hopkins Campus,
Charles & 34th Streets, at 8:30. Business: Election of officers
Group meetings: Immediately following the general meeting

ANALYTICAL CHEMISTRY

Chairman: H. C. Freimuth Room 101, Remsen Hall

Chemical Analysis of Foods. Margarethe Oakley, State Health Department, Baltimore

Changes in emphasis in modern food chemistry and application of newer methods of analytical chemistry to analyses of foods.

Brownian Movement within Crystals. Cecil A. Rush, Army Chemical Center, Edgewood

Motion picture demonstration of Brownian movement in crystals under high magnification. Physostigmine and sodium chloride have cells within their crystals which are filled with liquid. Many cells contain one moving particle or spherical bubble, 0.2 to 3 microns in diameter, moving with Brownian movement as modified by proximity of the cell wall.

The Analysis of Cosmetics. S. H. Newburger, U. S. Food and Drug Administration, Baltimore

Composition and analysis of cosmetic preparations including face powder, cosmetic creams, cold wave preparations, deodorants. Techniques involved in specific problems of cosmetic analysis.

INDUSTRIAL AND ENGINEERING CHEMISTRY

Chairman: F. C. Hettinger Room 200, Mergenthaler Hall

Present Trends in Insecticides. Walter E. Dove, United States Industrial Chemicals, Inc., Baltimore

Insecticides non-hazardous to man or animals; toxic materials for use in restricted areas. Government activities in the field.

Modern Grease Manufacturing. Alan Beerbower, Grease and Specialties Department, Standard Oil Company, Baltimore

Present manufacturing methods and formulations of lubricating greases contrasted with past processes. Recent developments in continuous grease manufacture.

Economic Evaluation of New Products and Processes. William F. Stark, Research and Development Department, Davison Chemical Corporation, Baltimore

Product and investment cost estimates play an essential part in the conduct of industry's research and development programs. Components of such estimates, their use by technical personnel.

Use of Chromatography in Industry. Raymond C. Crippen, The Raymond C. Crippen Research and Development Laboratories, Baltimore

Antibiotic manufacturers are present large scale users. Potential users exist in the fields of drugs, vitamins, biologicals, insecticides and organic chemical isomers. Chromatographic procedures coupled with ion exchange methods give improved adsorption efficiencies necessary for large scale applications.

INORGANIC AND PHYSICAL CHEMISTRY

Chairman: R. E. VanDyke Room 304, Mergenthaler Hall

The Recording Ellipsometer. A New Instrument for Kinetic Studies of Reactions on Solid-Liquid Interfaces. H. J. Trurnit, Army Chemical Center, Edgewood

A polarization spectrometer used to measure visually the thickness of adsorbed or deposited monolayers or multilayers on solid surfaces in air has been modified and combined with other instruments to record continuously changes of thickness of layers on solid-liquid interfaces. The study of reactions on monolayers thus can be broadened to yield kinetic data.

Chemical Information from Microwave Spectra. W. S. Koski, The Johns Hopkins University, Baltimore

Various data of chemical interest that can be obtained from microwave spectra, using the simple molecule COS as an example. Essential features of a microwave spectrometer, its advantages and disadvantages as an analytical tool.

Conversion of Hydrocarbons into Gasoline. J. E. Ahlberg, Davison Chemical Corporation, Baltimore

Chemical reactions, the most effective catalysts, temperatures, pressures, etc., involved in these conversions.

ORGANIC, BIOLOGICAL AND MEDICINAL CHEMISTRY

Chairman: George P. Hager, Jr. Room 221, Remsen Hall

The Chemical Nature of the Reaction between Sulfur and Crotonic Esters. Theodor Wagner-Jauregg and Brennie Hackley, Army Chemical Center, Edgewood and Institute for Cooperative Research, The Johns Hopkins University, Baltimore

Michael formulated the reaction product of sulfur with crotonic ester as a three membered ring compound. This assumption does not correspond to properties of the substance. A bimolecular formula has been established and is discussed in relation to other additional reactions between sulfur and ethylene linkages.

Synthesis of Furanochromones, Furanocoumarins and Related Benzopyrones for Use as Coronary Vasodilators. Raymond M. Burgison, School of Medicine, University of Maryland, Baltimore

Synthesis of khellin (2-methyl-5,8-dimethoxy-6,7,4',5'-furanochromone) and a number of closely related compounds. Clinical and pharmacological investigations have shown that some of these compounds possess marked coronary vasodilating activity.

The Ultraviolet Absorption Spectra and Structure of Certain Oxygenated Indole Derivatives. F. M. Miller, School of Pharmacy, University of Maryland, Baltimore

Oxygenated indole derivatives such as oxindole and isatin are capable of existing in tautomeric forms. Correlation of their absorption spectra with structure by comparison of spectra of the parent molecules with those of certain derivatives known to have structures corresponding with those of the tautomers.

Dec / SEC Section Meeting Review
Introductory remarks by host meeting
7x20 = 140 - attendance
Dr. Carl Moser sub for Van Dyke

The Maryland Section is indebted to the following firms for their co-operation in making the Instrument Show possible:

The American Instrument Company

The Brown Instrument Company

Central Scientific Company

Fenwal, Inc.

Fisher Scientific Company and
Eimer and Amend

National Technical Laboratories
(BECKMAN INSTRUMENTS)

Arthur H. Thomas Company

The Will Corporation of Maryland
(E. J. CALLAHAN AND COMPANY)

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(to page 4)

from page 3) Program for the Meeting on November 17, continued

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