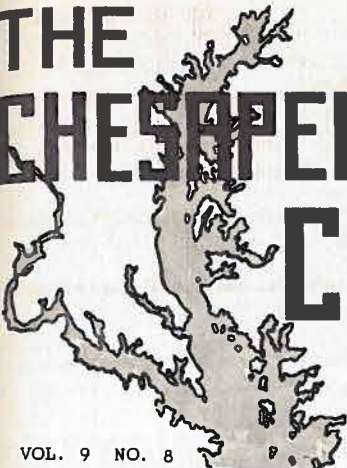


NOVEMBER 1953

# THE CHESAPEAKE CHEMIST

PUBLISHED BY THE  
MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. 9 NO. 8



THE NOVEMBER PROGRAM -- A GROUP MEETING

Friday, November 20 will mark the third program of the group meeting type to be organized in recent years by the Maryland Section. The general plan of such meetings is the presentation of a number of papers of quite specific interest during two sessions, late afternoon and evening, with a general gathering at dinner between the two periods, and an exhibit, with light refreshments available, following the reading of the last papers. Previous programs of this type were arranged in November, 1950 and in February, 1952, and were quite successful, as judged by the attendance and the favorable comment from members and guests. It is the general thinking of the Executive Committee that such meetings constitute an important element of interest and variety in what the section offers to chemists in this area, and that they should be held at approximately eighteen-month intervals.

The November program contains fewer papers than were presented at the last meeting of this type, but this has the advantages of making a choice among simultaneous papers less difficult for those attending, as well as permitting more adequate presentation and more extended discussion of the various research items.

The audio-visual and mechanical aids exhibit which will close the meeting should be of particular interest to teachers, librarians, abstractors, and others who use chemical literature extensively, as well as to the general audience.

The dinner will be held at 7:00 P.M. in the cafeteria of Levering Hall, which is located in the southwest portion of the Johns Hopkins campus, near the main quadrangle, but on a lower tier. Since the annual election of officers will be held at the close of dinner, before the group is disbanded for the evening session of papers, members of the section are urged to attend, and if unable to be at dinner, to arrive about 7:30 to vote!

The Maryland Section, especially its Executive Committee, wishes to thank Dr. John F. Gryder of the Department of Chemistry of Johns Hopkins, for his splendid work in organizing this meeting and obtaining the speakers and the exhibit. (to page 3

## Section Officers

Chairman	Winslow H. Hartford, Mutual Chemical Company of America, Baltimore 34
Vice-Chairman	William H. Summerson, Chemical Corps, Army Chemical Center, Maryland
Secretary	H. H. Lloyd, Goucher College, Baltimore 4
Treasurer	E. A. Metcalf, 907 Litchfield Road, Baltimore 42

THE CHESAPEAKE CHEMIST is published each month from September through May by the Maryland Section, American Chemical Society.

Editor Stephen S. Hubbard, 4423 N. Eutaw St., Baltimore 4

## ELECTION OF OFFICERS FOR 1954

The annual election of officers, councillors, and members-at-large of the Executive Committee will be held at the close of dinner (Levering Hall) during the November meeting. Please come to vote even if you can not attend the dinner!

Dr. William H. Summerson, the present vice-chairman, has agreed to accept the office of chairman, to which he succeeds automatically as of January 1, 1954 under the by-laws of the section.

The Nominating Committee, listed in the October issue, presents the following slate, as reported by the chairman, Dr. Hellermcn:

Vice-Chairman--Belle Otto, Goucher College  
Secretary--J. Elston Ahlberg, Davison Chemical Corporation  
Treasurer--Edward A. Metcalf, Army Chemical Center

Councillors--Winslow H. Hartford (Mutual Chemical Co. of America), 3 years; Charles Brambel (Clinical Chemistry Laboratory of Mercy Hospital), 1 year. (A. H. Corwin and Giles B. Cooke have unexpired terms).

Alternate Councillors--Sylvan Forman (Emerson Drug Co.), 3 years; Amos Horney (Research and Development, USAF), 2 years; Stephen S. Hubbard, 1 year.

Members-at-large of the Executive Committee--George P. Hager (School of Pharmacy, University of Maryland); Evans Reid (Department of Chemistry, Johns Hopkins); Lloyd Felton (Hynson, Westcott, and Dunning); Henry Freimuth (Department of Health, State of Maryland); C. W. Perry (Mathieson Chemical Corporation).

NOTES--The section membership has recently passed the minimum figure permitting an increase from three to four councillors; the nominations of Dr. Brambel and Dr. Hubbard cover this fourth councillorship, assuming we remain entitled to it on the deadline date of December 1, and are for one year because of their provisional nature.

Under the by-laws of the section, any member may make additional nominations from the floor during the election period, provided that the nominee gives his consent.

## THE MARYLAND SECTION

presents  
A GROUP MEETING

Friday, November 20, 1953  
5:00 and 8:00 P.M.

The Johns Hopkins University  
Charles and 34th Streets  
Baltimore

## AFTERNOON SESSIONS 5:00 P.M.

Inorganic and Physical Chemistry404 Remsen Hall

Some Kinetic Studies on Diborane  
Walter S. Koski

Department of Chemistry,  
The Johns Hopkins University

Some Properties of Chromyl Chloride  
Robert C. East

Mutual Chemical Company

Biological and Medicinal Chemistry244 Remsen Hall

Mechanisms in Enzymatic Transaminations  
Mary A. Hilton, Frederick W. Barnes, Jr., Sarah S. Henry, and  
Theodore Enns

--Departments of Medicine and of Physiological Chemistry,  
The Johns Hopkins University

## DINNER

Levering Hall (Cafeteria)7:00 P.M.

For details, see registration card. If you plan to attend, please mail this card with check so that Dr. Summerson receives your registration by November 17.

## EVENING SESSIONS 8:00 P.M.

Analytical Chemistry244 Remsen Hall

Spectrophotometric Determination of Organic Arsenic Compounds  
R. C. Crippen and E. J. Picek  
--Raymond E. Crippen Research and Development Laboratories

Harold E. Hoelscher

Department of Chemical Engineering,  
The Johns Hopkins University

Organic Chemistry404 Remsen Hall

The Intramolecular Hydrogen Bond in Cyclic Diols  
Lester P. Kuhn

Ballistics Research Laboratories,  
Aberdeen Proving Ground, Maryland

(continued on page 4)

## Organic Chemistry (continued)

404 Remsen Hall

## Recent Advances in the Chemistry of Some Natural Products

Evans B. Reid

--Department of Chemistry, The Johns Hopkins University

## Industrial and Engineering Chemistry

111 Mergenthaler Hall

## A Development Plan for Inorganic Chemicals

Raymond Costa

Mutual Chemical Company

EXHIBIT 9:30 P.M.

## Audio, Visual, and Mechanical Aids

419 Remsen Hall

## Refreshments

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Other papers are being arranged.

A complete program with abstracts will be available at the meeting.

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The following is a continuation of the list, begun in the September issue, of members added to the Maryland Section in the early part of 1953:

JENSEN, Reilly C., Army Chem. C.; KATZEN, Howard M., Baltimore; KELLEY, Elizabeth B., Baltimore; KESSLER, Gerald, Baltimore; KINCL, Fred A., Aberdeen; KLAPPER, Harold, Baltimore; LANDOWNE, Robert A., Baltimore; LARSEN, Howland A., Aberdeen; LEISE, Esther M., Frederick; MAGIROS, Peter, Ellicott City; MAHLER, Walter, Army Chem. C.; MAYS, Robert K., Havre de Grace; McCARTY, Kenneth P., Army Chem. C.; MCCORMACK, Grace, Baltimore; MEYERS, Joseph A. III, Jessups; MILLARD, Ernest H., Baltimore; MILLER, W. Standish, Baltimore; MILTENBERGER, F. W., Chestertown; MONCURE, Henry, Jr., Annapolis; MURPHY, Elizabeth, Aberdeen; NEILL, Hugh R., Edgewood; POLLARD, Albert J., Baltimore; RAPPOLT, John P., Frederick; ROBINSON, J. D., Baltimore; ROEBUCK, Doyle E., Army Chem. C.; ROWE, Clement E., Baltimore; RUSH, Cecil A., Baltimore; RUSH, Charles G., Baltimore; SAULT, Russell A., Aberdeen; SCHATZBERG, Paul, Baltimore; SCHRAUF, Bernard, Baltimore; SCHULMAN, William, Baltimore; SELTZER, Stanley, Edgewood; SIEHR, Donald J., Army Chem. C.; SPINAR, Leo H., Frederick; STARKEY, E. B., Baltimore; STROM, Theodore F., Baltimore; SVARNAS, George, Frederick; TAFF, Albert W., Glen Burnie; TETTA, Patrick P., Army Chem. C.; THEOBALD, O. J., Jr., Baltimore; THORPE, Sheldon G., Army Chem. C.; TIMBS, M. Norman, Baltimore; TODD, Robert W., Army Chem. C.; TROMBLY, Harvey H., Frederick; TROYAN, James E., Towson; VASINGTON, Frank D., Baltimore; WARD, Wendell L., Army Chem. C.; WEBER, Edwin C., Jr., Baltimore; WEBER, Wendell W., Army Chem. C.; WEINBLATT, Mayer, Baltimore; WELSH, Patrick G., Edgewood; WINN, William D., Frederick; YOUNG, Austin H., Army Chem. C.; ZUCKERMAN, I. Irving, Frederick. (In an early issue, transfer resulting from the redefinition of the boundary between the Maryland and Washington sections will be listed).

from page 6) Committee on Chemical Education

Crown, Cork, and Seal, February 26, 1953.

The Committee, especially Dr. Gryder, has co-operated with Mr. G. A. Sieverts, Assistant in Occupational and Educational Information of the Board of Education, by supplying him with data on audio-visual materials. This service will be continued with his successor, Mr. Harry Hendrickson.

Respectfully submitted, George P. Hager, Chairman

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Enoch Pratt Library--The following recent accessions in chemical literature are listed by the Industry and Science Department of the main branch:

Association of Consulting Chemists and Chemical Engineers--Consulting Services, 1953. XOP 12.A7  
 Chatfield, H. W.--Paint Trade Manual of Raw Materials and Plants, 1952. XOP 934.3.C5  
 Egloff, Gustav--Physical Constants of Hydrocarbons. Vol. 5, 1953. XND 291.E4  
 Encyclopedia of Organic Chemistry (Elsevier). Vol. 12B, Part 6, 1953. XND 251.E5  
 Encyclopedia of Chemical Technology (Kirk-Othmer). Vol. 10, Pentacene to Polymethine Dyes, 1953. XOP 9.E6  
 Hall, A. J.--A Handbook of Textile Finishing. 1952. OS 151O.H27  
 Kubaschewski, Oswald, and Hopkins, B. E.--Oxidation of Metals and Alloys. (USA ed., 1953). ND 171.K8  
 Martell, A. E., and Calvin, M.--Chemistry of the Metal Chelate Compounds. 1952. ND 411.M38  
 Organic Reactions. Vol. 7, 1953. ND 251.07  
 Schaeffer, H. F.--Microscopy for Chemists. 1953. NH 224.S3  
 Science of Petroleum, The. Vol. 5, Part 2, 1953. XOP 686.S2  
 Sumner, J. B. and Somers, G. F.--Chemistry and Methods of Enzymes. 3d ed., rev. & enlarged, 1953. VC 604.S8  
 Taylor, James--Detonation in Condensed Explosives. 1952. ND 516.T3  
 Waksman, S. A.--Neomycin: Nature, Formation, Isolation, and Practical Application. 1952. VD 447.W4 U6

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Washington Section--A regular meeting of this local section is scheduled for December 3, with an address at 8:15 P.M. by the national president, Dr. Farrington Daniels, on the Kinetics of the Nitrogen Oxides. Dr. Daniels and his students have made notable contributions in the study of reaction kinetics involving these compounds; hence this is an opportune occasion, for those of our members who are able, to attend a meeting of a neighboring section and to get acquainted with some of the chemists there.

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SAVE Friday, December 18 for our next regular meeting.

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REPORT OF THE COMMITTEE ON CHEMICAL EDUCATION  
(MARYLAND SECTION)

At the meeting of the Executive Committee on October 20, the local Committee on Chemical Education reported its first year's activities, under the chairmanship of Dr. George P. Hager. Notes on the Executive Committee meeting itself will be published in the December issue, but the accomplishments of the chemical education group have been so extensive that they warrant separate publication. The report follows.

The Committee on Chemical Education has functioned for one year with the objective of presenting prospective students, their parents, teachers, and guidance counselors with a realistic picture of the chemistry profession. The members are G. P. Hager, chairman; R. M. Burgison, J. L. Gryder, E. B. Reid, and J. L. Straughn (editor's note: Dr. Straughn, also former editor of THE CHESAPEAKE CHEMIST, is no longer in the local section).

The co-operation of the Board of Education (Baltimore) was solicited and granted. The chairman (1) conferred with two of its members, Mr. E. M. Palmer and Miss Stidham, on October 29, 1952. They expressed special interest in plant trips for teachers and students, and display material for use in the schools. The chairman (2) visited Miss Leona Buchwald, Assistant Director of Guidance and Placement, and was assured of her permission to deal directly, as well as through her, with the guidance counselors in the schools, whose names and addresses she provided. She requested and received 25 copies of The Chemical Profession, and 45C copies of Shall I Study Chemistry?

After corresponding with counselors, the committee took part in three guidance conferences: Southern High School (Reid and Hager, November 14, 1952); Seton High School (Hager, March 26, 1953); Forest Park High School (Summerson, May 8, 1953). The committee has interviewed personally the following counselors, and has been assured in each instance of a desire for the co-operation of the Maryland Section in their programs. Dr. Burgison was especially active in making these interviews: Miss Fannie Howard, Douglas High School; Miss Jeannette Griffith, Southern High School; Mr. Geary Stonesifer, Baltimore Junior College; Mr. Paul B. Stevens, Baltimore City College; Mr. John A. Seamon, Baltimore Polytechnic Institute; Miss Atla Burroughs, Eastern High School; Mrs. Ruth Lighston, Dunbar High School. These conferences were held during the period from March to May, 1953.

All of the counselors were invited by telephone to attend the showing of the film Decision for Chemistry at the September meeting of the section. The brochure Shall I Study Chemistry? was distributed to students at each of the above conferences, and in certain cases supplied directly to the counselor at his request.

Dr. Forman (assisting the committee) has very capably arranged plant trips, and appreciation for them has been received from Mr. Palmer: U. S. Industrial Chemicals, December 18, 1952; Hynson, Westcott, and Dunning, January 14, 1953; (to page 5

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