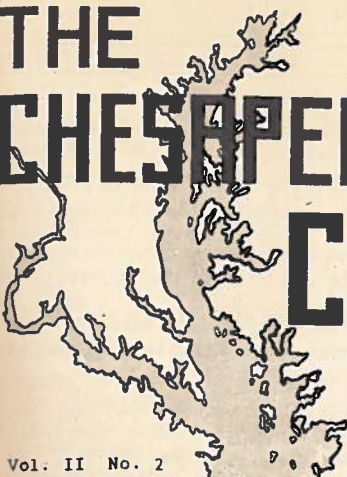


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THE CHESAPEAKE CHEMIST

FEBRUARY 1946



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MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

Vol. II No. 2

THE FEBRUARY MEETING

Dr. Dean Burk, Senior Chemist at the National Cancer Institute, Bethesda, Maryland, will speak on "Biochemical Aspects of Cancer" at the next meeting, Friday, February 15. The problem of cancer offers itself as a major field of post-war research. Coordination of investigation on a nation-wide scale is already developing rapidly. It is evident now that the final solution of the problem lies in chemotherapy, based on fundamental studies of metabolism, diagnosis, and elaboration of specifically acting chemical compounds that affect particular enzyme systems. Some of the recent findings along these lines will be described, together with some of the new investigative tools that have been employed, and directions of future research will be suggested.

Dean Burk received his bachelor's degree in 1923 and his Ph.D. in 1927 from the University of California. From 1927 to 1929 he was a National Research Fellow and did research at University College, London, Kaiser Wilhelm Institute and Harvard University. From 1929 to 1937 he worked as Associate Physical Chemist, and from 1937 to 1939 as Chemist, at the Fixed Nitrogen Research Laboratory of the U. S. Department of Agriculture. In 1939 he was appointed Senior Chemist at the National Cancer Institute, U. S. Public Health Service. From 1939 to 1941 he taught biochemistry at Cornell Medical College.

Dr. Burk for the past three years has served as chairman of the Gibson Island Research Conferences on Cancer and as editor of the books reporting these conferences in 1944 and 1945. He is a member of the Committee on Catalysis of the National Research Council, the Awards Committee of the newly established A. C. S. (Paul-Lewis Laboratories) Award in Enzyme Chemistry, and the Board of Directors of the Overly Biochemical Research Foundation.

The meeting will be preceded by dinner at Levering Hall.

33 1/2

MARYLAND SECTION

AMERICAN CHEMICAL SOCIETY

Section Officers
 Chairman Giles B. Cooke Vice-chairman John A. Herculson
 Secretary C. W. Wilson Treasurer C. W. Wilson

THE CHESAPEAKE CHEMIST is published each month from September through May by the Maryland Section, American Chemical Society. Editor: Belle Otto, Goucher College, Baltimore 18, Maryland.

MEMBERSHIP IN THE MARYLAND SECTION AND THE NATIONAL SOCIETY

Members of the Section have received notice that dues for 1946 are now payable. If you have not yet done so, please forward your dollar to the Treasurer now.

Funds for the Section come principally from two sources: the A. C. S. apportionment of national dues and dues collected independently by the local section. Money received from the A. C. S. may be used only for certain purposes specified by the Society. Such activities as The Chesapeake Chemist must be supported by local section funds. For the continuance of the Section's program of making its activities of greater interest and benefit to chemists of this region, your financial support as well as your personal participation is essential.

Local membership in the Maryland Section is open to any interested person. Local members receive notices of meetings (in the form of The Chesapeake Chemist) and certain other privileges. Membership may be secured by forwarding dues to the Treasurer, Dr. C. W. Wilson, 4122 Westview Road, Baltimore 18.

Membership in the national society brings various other privileges not accorded to those who are only local members. These include receipt of Chemical and Engineering News, reduced registration fees at national meetings, and reduced subscription rates to the journals of the Society. The value of national membership is enhanced in peacetime by the resumption of national meetings and an inevitable increase in the number of journal articles. Anyone interested in national membership should make application through local officers (the Treasurer or Dr. Sylvan E. Forman, 647 N. Augusta Ave., Baltimore 29), since in that case our local treasury receives a part of the fees paid.

OPEN MEETINGS OF INTEREST TO MARYLAND CHEMISTS

The Johns Hopkins Chapter of the Society of the Sigma Xi will meet at 8:00 P.M. on March 5 in Room 110, Maryland Hall, Homewood Campus. Dr. Leonor Michaelis will speak on "Fundamentals of Oxidation and Respiration."

The Baltimore Chapter of the American Society for Metals will meet at 8:00 P.M. on February 18 at the Engineers Club. Dr. A. R. Troiano will talk on "Fundamentals of Hardenability." On March 18, at the same hour and place, there will be a meeting of special interest to chemists. Dr. M. G. Pontana will discuss the subject "Metals and Alloys in the Chemical Industry."

MARYLAND SECTION

AMERICAN CHEMICAL SOCIETY

WARTIME CHEMISTRY IN THE CHESAPEAKE AREA

The Hopkins Department of Chemical Engineering

During the war the Department of Chemical Engineering of the Johns Hopkins University carried on a program of investigations on plastics. The work was done under the direction of Dr. Ralph K. Witt, and included testing and research for various groups, among them the Army, the Tropicalization Committee of the NDRC, and NEMA (National Electrical Manufacturers Association). Some of this work is still in progress.

The testing program has included determination of a variety of physical properties, particularly tensile strength, volume and surface resistance, dielectric strength, capacity and fatigue characteristics. A great mass of data has been accumulated for a large number of plastics over a temperature range from -70° to $+160^{\circ}$ F. The Department is proud of its fine collection of instruments and control devices, and a visitor is particularly impressed with a portable device for supplying "packaged air" at any predetermined humidity or temperature from -100° to $+200^{\circ}$ within 2° F.

A long term storage program for the Army, involving the use of plastics as protective agents during storage, is continuing into the period of peace. The program for NEMA is also continuing. This program represents a unique cooperative effort on the part of the whole industry, and includes all the large producers of resin laminates. This collaboration was initiated during the war to supply data to the armed forces, and will continue in an effort to develop standard test methods and to compile reliable data on the mechanical and electrical properties of phenolic laminates.

COMMITTEE CHAIRMEN

Dr. Giles B. Cooke, Chairman of the Section, has appointed the chairmen of the various committees which will serve during 1946. Each chairman has the privilege of selecting his own committee, except in the case of the Remsen Awards Committee.

Committee on Remsen Memorial Lecture Awards: A. H. Corwin
 Publication Committee for The Chesapeake Chemist: W. H. Hartung
 Program Committee: J. A. Herculson (Vice-chairman of Section)
 Howard Cantwell, Member in charge of dinners
 Publicity Committee: Winslow H. Hartford
 Membership Committee: Sylvan E. Forman

REMSEN EXHIBIT

The Johns Hopkins University is assembling memorabilia of Ira Remsen in connection with the University Commemoration of the one hundredth anniversary of his birth. The material will be on exhibition during February in the Gilman Memorial Room on the main floor of Gilman Hall. The building is open daily except Sundays.

532



NEXT MEETING February 15 TIME 8:30 P. M.
SPEAKER Dr. Burk
SUBJECT Biochemical Aspects of Cancer
PLACE Room 101, Remsen Hall, Johns Hopkins
Charles & 34th Streets

BRING ANOTHER CHEMIST

This is the only notice of this meeting which you will receive. Save the date March 29 for the next meeting.

Dr. Burk

REPORT OF THE TREASURER

as of December 1, 1945

Cash on hand, December 15, 1944 \$ 298.79
U. S. Government Bond 700.00

Receipts:

Apportionment of A.C.S. funds (on the basis of 561 members in the section) . . \$ 375.06
Commissions for new members 58.75
Local section dues 296.00
Interest on bond 17.50
\$ 747.31 747.31
\$1,746.10

Expenditures:

Speakers' expenses (travel, hotel, meals) \$ 290.06
Printing (including "The Chesapeake Chemist") 228.35
Postage, telephone, stationery (including mailing "The Chesapeake Chemist") . . . 92.34
Secretarial and janitor services (including mailing service, Engineers Club, and service for refreshments) 68.50
Refreshments (after regular meetings) . . 49.23
Miscellaneous (reimbursement for overpayment of local section dues) 1.00
\$ 729.48 729.48

Balance (cash on bond) December 1, 1945 \$1,016.62

Channing W. Wilson, Treasurer

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WANTED: CHEMICAL ABSTRACTS

In order to complete a second set of Chemical Abstracts which has been given recently to the Hopkins Library, the Department of Chemistry at the University needs copies issued from January 1940 (Vol. 34) to date. Will anyone who is willing to donate these recent numbers please communicate with Miss Jeannette B. Parran, Librarian, Department of Chemistry, The Johns Hopkins University, Baltimore 18, Maryland?

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Vol

2 1/2