

THE CHESAPEAKE CHEMIST

MARCH 1950

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THE MARCH MEETING

The next meeting of the Maryland Section will be held on Friday, March 31, in Remsen Hall on the Hopkins campus. Dr. Gustav Martin of the National Drug Company will speak on "Applications of Ion Exchange Materials."

Dr. Martin's talk will center particularly on the biochemical and medical applications of ion exchange materials. Such substances have in recent years become useful biochemical tools for demineralization of sugar solutions, removal of sulfuric acid in the manufacture of beta alanine, removal of formic acid from formaldehyde, and isolation of alkaloids such as scopolamine, atropine and nicotine. Through application of these agents, fractionation of protein hydrolysates has become simple and inexpensive. Vitamins and antibiotics are isolated on exchangers and biological products are purified by use of these resins. The medical application of an ion exchange material has become the preferred procedure in treatment of peptic ulcers and heartburn of pregnancy. The most recent application is in the field of sodium removal in decompensated cardiacs with edema, hypertension, nephrosis and cirrhosis of the liver.

Dr. Martin is a native of the state of Washington and received his early education in the schools and state university there. In 1932 he came to The Johns Hopkins University as a graduate student under Dr. McCollum in the Department of Biochemistry at the School of Hygiene and Public Health, and received the Sc. D. degree in 1935 for his studies of vitamin E. For several years he worked in the field of nutrition as a medical student and Fellow of Sprague Institute at the University of Chicago, and as a Fellow of Trudeau Foundation at Saranac Lake in New York. At Sprague Institute he also worked on brain chemistry. (to page 3)

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Section Officers

Chairman Alsoph H. Corwin, Department of Chemistry,
The Johns Hopkins University, Baltimore 18
Vice-chairman Charles E. Brambel, Mercy Hospital, Baltimore 2
Secretary-treasurer H. H. Lloyd, Goucher College, Baltimore 18

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Editor: Belle Otto, Goucher College, Baltimore 18, Maryland.

MARYLAND SECTION NOTES

Remsen Meeting Dr. R. D. Fowler, chairman of the Committee on the Remsen Lectureship, has announced that the Remsen Lecturer for 1950 will be Dr. Edward C. Kendall of the Mayo Foundation, known to every chemist for his work on thyroxins and other hormones. The Remsen meeting will be held on Friday, May 26.

Committee Chairmen Dr. A. H. Corwin, as Chairman of the Maryland Section, has announced that Dr. Winslow H. Hartford, of the Mutual Chemical Company, will continue to serve as chairman of the Publicity Committee for the coming year. Dr. George P. Hager, of the University of Maryland, is acting as chairman of a committee to explore the desire and need for activities for groups with common chemical interests. Dr. Giles B. Cooke, of Crown Cork and Seal, will serve as chairman of the Committee on National Nominations and Awards, with Dr. Leslie Hellerman of The Johns Hopkins Medical School and Dr. William H. Summerson of the Army Chemical Center as the other members. This committee is making recommendations of possible nominees for national offices, which must be received by March 20, and will make suggestions for recipients of national awards before July 1, when such nominations are considered.

Bylaws The deadline for return of ballots for acceptance or rejection of the proposed Section Bylaws is Monday, March 20. If you have not already done so, indicate your opinion on the yellow ballot sent with the February issue of THE CHESAPEAKE CHEMIST -- and then mail it.

Section Directory The other yellow card, sent at the same time as the ballot, requested information which will be very useful to your officers in making your local section activities of greater interest and value to you. Mail that card, too, if you have not already done so.

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Recent additions to the books at Enoch Pratt Library include:
Alexander and Johnson -- Colloid Science. vols. I and II (1949)
Arkel, van -- Molecules and Crystals in Inorganic Chemistry. (1949)
Amis -- Kinetics of Chemical Change in Solution. (1949)
Blout and others -- Monomers. (1949)
Carney -- Laboratory Fractional Distillation. (1949)
Crowther -- Ions, Electrons and Ionizing Radiations. 8th ed. (1949)
Dushman -- Scientific Foundations of Vacuum Technique. (1949)
Gyorgy -- Vitamin Methods, vol. I. (1950)
Hayward -- Penicillin and Other Antibiotics. (1949)

from page 4) The Technical Library at Army Chemical Center
In the journal files are found sets of American Chemical Journal, Annalen der Chemie, Berichte der Deutschen Chemischen Gesellschaft, Bulletin Societe Chimique de France, Chemical Reviews, Chemical and Metallurgical Engineering, Gazetta Chimica Italiana, Helvetica Chimica Acta, and journals of the American Chemical Society and the Chemical Society of London. Partial sets of technical journals in the fields of engineering, metallurgy, paints and rubber are available.

Access to patent literature is found through the Official Gazette of the Patent Office, Worden's Index to Chemical Patents, Patent Index to Chemical Abstracts 1907-1936 (compiled by the Special Libraries Association), and the Abstracts of Chemical Patents vested in the Chemical Property Custodian.

Specifications and standards of many of the engineering societies and trade associations are on file as well as several thousand manufacturers' trade catalogs and bulletins.

The entire collection consists of approximately 20,000 volumes. Books are selected on the basis of permanent reference value, including a very comprehensive collection of books on chemical warfare. A very vital part of the library collection consists of over 100,000 unpublished documents which are indexed by subject, author, and source. The library is not a depository of government documents, but publications numbering several thousand have been procured as needed and form an essential part of the collection. Military publications, including Army regulations, are readily available for military personnel. A weekly document list and a monthly library bulletin, both of which are limited to the use of the Chemical Corps personnel, are prepared.

Miss Alice M. Amoss is librarian with a staff of thirteen assistants.

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from page 1) The March Meeting
For one year he was professor of chemistry at the college of St. Teresa in Minnesota. In 1940 Dr. Martin went to Warner Institute for Therapeutic Research in New York as Assistant Director of Research, and while there worked chiefly on detoxication mechanisms, correlation of amino acids and vitamin nutrition, and intravenous protein hydrolysates. In 1944 he joined National Drug Co. in Philadelphia as Director of Research. His work there has been in such diverse fields as virus chemotherapy, hypertension, and studies of metabolite analogues, vitamin P compounds, and inhibitors of histidine decarboxylase, choline acetylase, lysozyme and hyaluronidase. Dr. Martin's studies of ion exchange materials and their application in medicine and biology have been part of his recent work, and he is well qualified to discuss these interesting new developments with us.

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Dr. Martin

NEXT MEETING March 31 TIME 8:30 P.M.
PLACE Room 404, Remsen Hall, Johns Hopkins
Charles & 34th Streets
SPEAKER Dr. Gustav J. Martin
SUBJECT Applications of Ion Exchange Materials
DINNER 6:30, The Johns Hopkins Club
Charles & 34th Streets

The meeting is open to any who are interested.
Save Friday, April 28th, for the next meeting
at Western Maryland College in Westminster, Md.

CHEMICAL LIBRARIES IN MARYLAND

VI. The Technical Library at the Army Chemical Center
(Courtesy of Alice M. Amoss)

The Technical Library at the Army Chemical Center was organized in 1949 with a few books found in the laboratories at Edgewood Arsenal and at the Bureau of Mines Experimental Station, Washington, D.C., where much of the World War I research in chemical warfare was carried on. In the early years the former name "Chemical Library" indicated the scope of the collection. As time passed the research problems became wider in scope and the name was changed to "Technical Library." Now, the collection comprises subject material not only in the field of chemistry but in the allied science as well.

Established in order that information on chemical warfare agents, munitions, equipment, and associated problems may be available to the research and development personnel of the Chemical Corps, the present collection enables the research man to conduct complete literature searches through the use of basic reference sources and to keep in touch with current developments through extensive journal subscriptions, recent books and other pertinent publications. The organic chemist finds a complete set of Beilstein's Handbuch der organischen Chemie, Richter's Literatur-Register der organischen Chemie, and the Zentralblatt formula indexes. The more recent reference volumes include Elsevier's Encyclopedia of Organic Chemistry, Kirk-Othmer's Encyclopedia of Chemical Technology, Heilbron's Dictionary of Organic Compounds, and Faraday's Encyclopedia of Hydrocarbon Compounds. A complete set of Organic Syntheses and the American Chemical Monographs are in the collection. Corresponding inorganic reference material is found including Gmelin's Handbuch der anorganischen Chemie and Mellor's Comprehensive Treatise on Inorganic and Theoretical Chemistry.

A complete set of Chemical Abstracts, the British Abstracts from 1843 to date, and the Chemisches Zentralblatt from 1868 to date also provide keys to the chemical literature. References in other subject fields are found in Biological Abstracts, Engineering Index, Industrial Arts Index, Quarterly Cumulative Index Medicus, Physiological Abstracts, Nuclear Science Abstracts, Science Abstracts, Cumulative Book Index, and the Readers Guide to Periodical Literature. (to page 3)