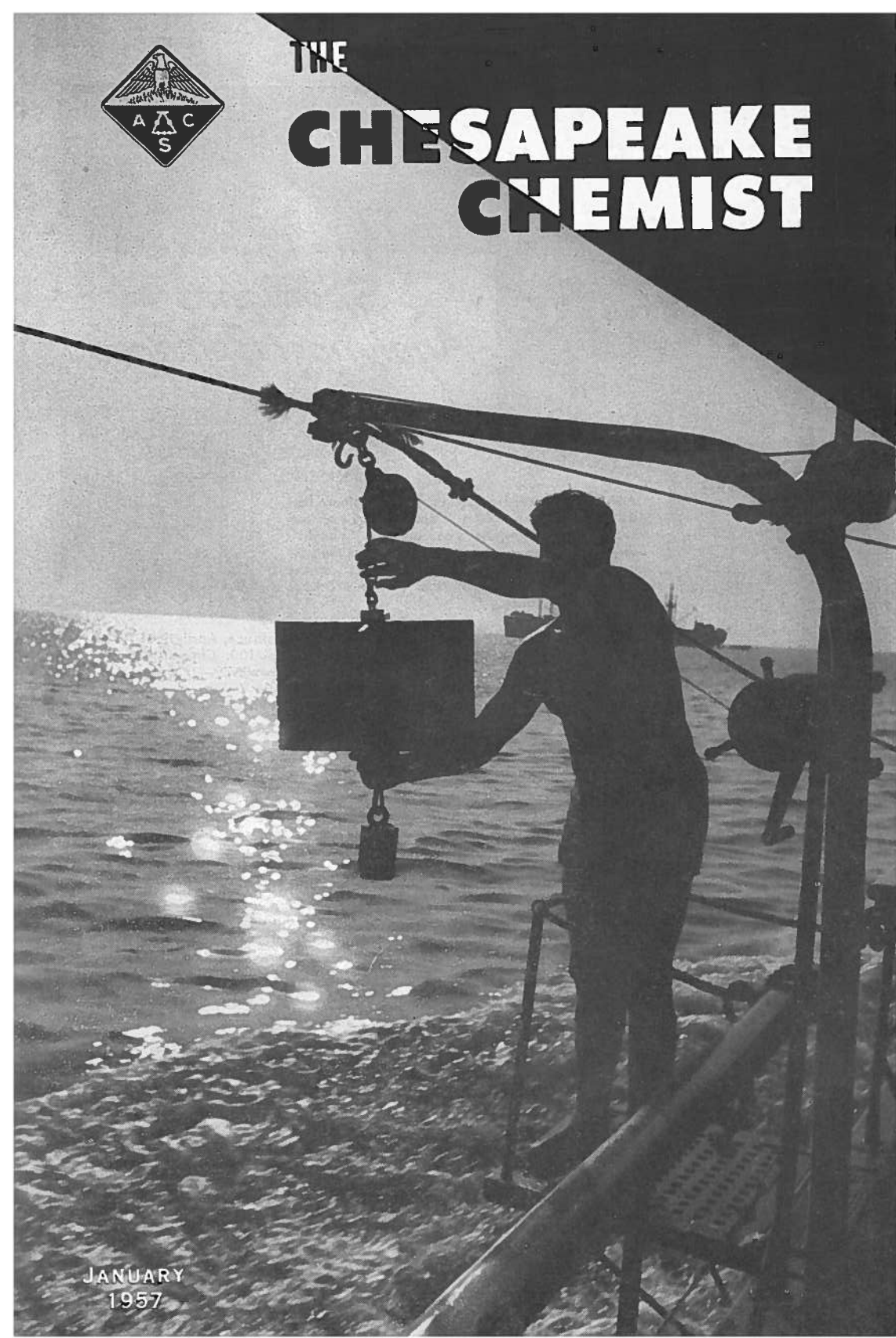




THE
**CHESAPEAKE
CHEMIST**



JANUARY
1957

The Chesapeake Chemist is published each month from September through May by the Maryland Section of the American Chemical Society.

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COVER—A scientist aboard a boat of Johns Hopkins University's Chesapeake Bay Institute in Hampton Roads, where Chesapeake Bay meets Atlantic Ocean, rigs a current-drag device to measure velocity of the Bay's water movements.

Photograph by Werner Wolff, Black Star, courtesy of The Johns Hopkins Magazine.

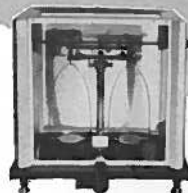
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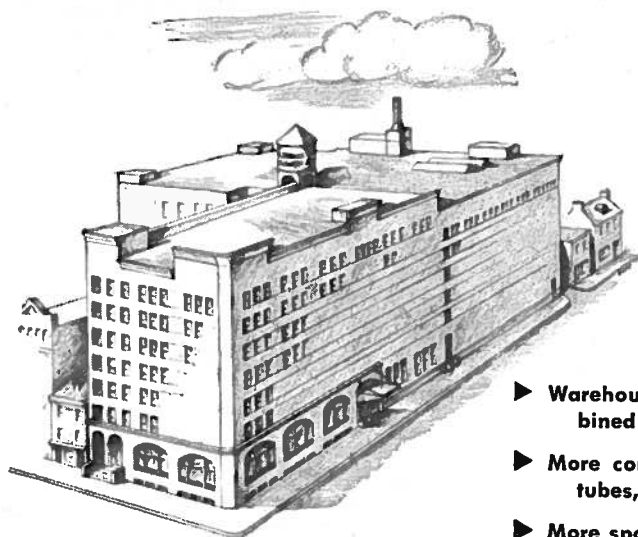
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JANUARY MEETING

Date:

Friday, January 25, 8:30 P.M.

Place:

Johns Hopkins University
Remsen Hall, Room 101

Speaker:

Dr. Dayton E. Carritt
Assistant Professor of
Oceanography
Chesapeake Bay Institute
of the
Johns Hopkins University

Subject:

Some Old and New Problems in
Chemical Oceanography.

Oceanography is a relatively new science. The systematic study of the oceans started during the late 1800's and since then many explorations have been completed. Today many gross oceanic features involving circulation, productivity and overall utilization by man are known. Prof. Carritt will discuss the part chemical principles and techniques have played in these developments.

Dr. Carritt is a graduate of Rhode Island State College and received the Ph.D. degree from Harvard University. From 1939 to 1941 he was a Teaching Fellow at Harvard and 1942-43 an Instructor in Chemistry at Rhode Island State College. During 1943 to 1946 Dr. Carritt was a Scientist at Los Alamos. From 1947 to 1951 he was Instructor in Chemistry at the Scripps Institute for Oceanography, in California. In 1951 Dr. Carritt came to Johns Hopkins University.

Dr. Carritt's research studies have been on the chemical properties of sea water, the polarography of sea water and biochemical problems relating to phytoplankton growth. Also, he has conducted research on atomic weights and the theory of action of antifouling paints.

In addition to his membership in the Society for Limnology and Oceanography, Dr. Carritt is a member of the American Chemical Society, American Association for the Advancement of Science, Geophysical Union and the New York Academy of Sciences.

Dinner:

Johns Hopkins Club

6:30 P.M.

Reservations should be made by Tuesday, January 22, with Dr. Raymond M. Burgison, School of Medicine, University of Maryland, Lombard and Greene Sts., Baltimore 1, telephone PL 2-1100. The price is \$2.50 and preferably is paid in advance.

Save February 15 for the next regular meeting.

THE CHAIRMAN'S MESSAGE



As I assume the Chairmanship of The Maryland Section of The American Chemical Society, it is with pleasure that I thank the members of the Maryland Section for the great honor and responsibility they have bestowed upon me. I take up my new duties in the hope that I shall be able to carry on the work of my new office with the devotion and enthusiasm characteristic of my distinguished predecessors. To those who have helped me in many ways in fulfilling my duties as Vice Chairman during the past year I also owe a special debt of gratitude, especially the members of the Executive Committee and others who have worked so hard in the interest of our Society. I should like to thank in particular our past-Chairman, Dr. Henry Freimuth, the members of The Remsen Memorial Lecture Committee, Dr. Edward J. Schantz of Fort Detrick, Dr. William H. Summerson of Army Chemical Center, and others who have given so generously of their time and labor in arranging special meetings. To Mr. Ray Costa and Mrs. Joyce Kaufman and their helpers at Johns Hopkins University, who month after month provide the after-meeting refreshments, we owe a special word of thanks, and much of the success of our meetings can be attributed to their efforts in making the "social hour" a popular part of the program.

I feel certain that all of our members have been impressed with the new and enlarged CHESAPEAKE CHEMIST.

Much of the success of this publication is due to the labors of Dr. Giles B. Cooke who has borne most of the burden of editing this periodical during the past few years. With the help of his new editorial committee and the assistance of all of our members in supplying news items, we feel certain that Dr. Cooke will make this publication an even more important part of the activities of the Maryland Section.

Dr. Richard Hall, Business Manager, and his assistants have worked hard to make the enlarged publication financially possible. This important and necessary part of the publication is being carried on both efficiently and successfully.

The beginning of 1957 finds our Maryland Section in excellent condition in many respects. According to the latest statistics released by the National Office, our membership stands at 990, just a little short of the one thousand mark which will place us in the large section category. We hope that all of our members will make an effort to interest their fellow chemists in the activities of the Society and thereby help promote their own professional standing and the welfare of the chemical profession. Attendance at meetings has been good, and intense interest has been shown in the Remsen Memorial Lecture and meetings at Army Chemical Center and Fort Detrick, and the Meeting-in-Miniature. The various program committees are making every effort, within the limits of our financial resources, to attract outstanding speakers on a variety of topics of general interest to our members and thereby encourage greater participation in the activities of the Section. Suggestions regarding speakers, topics and activities are always welcomed by your officers.

We hope to be able during the coming year to expand our activities in the field of public relations in an effort to help acquaint the public with the chemical profession and the chemical industry and the problems of chemical education, especially the declining enrollment in high school and college science courses. This, of course, is a big job and results are not often immediately apparent. However, we feel that we have a nucleus of an efficient organization in our Public Relations and Chemical Education Committees, and by working closely with local news agencies, radio and television educational directors, school and college administrators and science teachers real progress can be made. The assistance of our members who are interested in such projects is earnestly solicited. We can point with pride to the existence of four Chapters of Student Affiliates of the

American Chemical Society within our Section at Johns Hopkins University, Loyola College, The College of Notre Dame of Maryland, and Morgan State College. By working closely with these chapters and helping in the establishment of new chapters at other colleges and universities, much good can be accomplished.

As we look forward to the activities of the coming year and the fine array of speakers who have so generously consented to speak before The Maryland Section, it is with a feeling of pride that we associate ourselves with an organization dedicated to the advancement of

learning, the dissemination of knowledge, and the promotion of the chemical profession. We consider it a great privilege to have the opportunity to meet and exchange information with a fine group of scientists who are dedicated to the advancement of chemistry, and thereby to the enrichment of life and the elevation of mankind. May the Maryland Section of the American Chemical Society continue to grow and prosper!

Raymond M. Burgison

Meeting of the Executive Committee

The Executive Committee of the Maryland Section met on Tuesday, November 27th, at the home of the Chairman, Dr. Henry Freimuth, who presided. Those present included Freimuth, Cooke, Kelley, Lloyd, Felton, Hartford, Burgison, Hall, Metcalf, Vanderlinde and Summerson.

The Chairman brought up several items for discussion and decision. The first item related to the desirability of including a trip to a local industrial plant on the program of meetings for the coming year. It was noted that there has not been a plant trip on the program for a number of years. After some discussion, it was agreed that a plant trip should be arranged, possibly for the April 1957 meeting, and the Program Chairman was requested to make the necessary arrangements.

The next item discussed was the desirability of accepting an offer from the National Society of a number of extra copies of the book "Chemistry, Key to Better Living," published in 1951. The National Society feels that this book should be distributed free to high school libraries, not by mail but by personal contact with high school chemistry teachers and principals. It was decided to accept extra copies of the book, and to distribute them as suggested. The Chairman will make further necessary arrangements.

The problem of supporting the Pratt Library in connection with subscriptions to ACS journals, particularly Chemical Abstracts, was discussed next. The Pratt Library feels that the cost of obtaining ACS journals is too high for its limited budget, and has appealed to local chemists and chemical industries for assistance. An attempt last year to enlist the support of local chemical industry, as a feature of Chemical Progress Week, was unsuccessful. It was decided that there was still a possibility of enlisting the support of chemists and chemical indus-

try in this worthy cause, and the Chairman appointed Charles H. MacBeth to organize a program for this purpose.

It was announced that the December 1956 issue of The Chesapeake Chemist will be the first issue in the new format, and will also carry a Directory of the section members.

In connection with possible changes in the by-laws of the local section, Dr. H. H. Lloyd was named to replace Dr. Belle Otto as chairman of the Committee on By-laws, and requested to make the necessary recommendations in these matters as soon as possible.

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There then followed considerable discussion regarding participation of the Maryland Section in public-interest radio and television programs. There is ample help and material available from the National Society in this connection; all that is necessary is that a strong program be established and put into action. Mrs. Joyce Kaufman was named by the Chairman to coordinate this program and make recommendations for positive action.

It was announced that Drs. Hartford and Costa have been selected by the Engineers' Committee for Professional Development to serve as "teachers for a day" in local high schools, to assist in the development of interest in science and engineering on the part of high-school students.

The Secretary read a letter from the Milwaukee Section, ACS, which stated that the Milwaukee Section was plan-

ning to establish a Section Award, similar to the Maryland Section's Remsen Award, and wished information concerning the details of the scroll, plaque or medal offered in this connection. This information will be supplied to the Milwaukee Section.

The Chairman then turned the meeting over to Dr. Raymond Burgison, who will become Chairman of the section on January 1, 1957. Dr. Burgison announced that his appointments to the various committees through which the Section functions will become known shortly after the first of the year.

There being no further business, the committee then adjourned.

Respectfully submitted,

William H. Sumner

Secretary

RECENT MEETINGS

The October Meeting

On October 26, the Maryland Section held its regular monthly meeting at Camp Detrick, Frederick, Md. Mr. James H. Stack, Managing Editor of the ACS News Service, addressed the Section on "Public Relations and the Chemist."

Mr. Stack told an interested audience that within the past decade it has be-

come increasingly clear that public understanding and good will sought by the chemical profession cannot be obtained solely through national publicity and activities. ACS local sections and ACS members must assume responsibility for significant phases of this effort. Mr. Stack outlined ways in which the News Service will cooperate with local sections and also how individual members may contribute to the success of this undertaking.

Guests of the Section at a dinner held at the Officers' Club in honor of Mr. Stack prior to this address were Col. John J. Hayes, Asst. Chief Chemical Officer B. W., and Mrs. Hayes.

Attendance at the dinner and meeting numbered 63.

The November Meeting

The Maryland Section held its monthly meeting on November 16 at Johns Hopkins University. The speaker was Mr. E. W. Meyers, Chief Chemist and Director of Research of the Hershey Chocolate Corporation, who addressed the Section on "Chemistry and Technology of Chocolate Processing." The cultivation of the cocoa bean and technical problems related to the manufacture and processing of chocolate were discussed. Science, with all its instrumentation, however, has never been able to rival the discernment of the human palate and at the conclusion of the meeting Mr. Meyers invited the Section to rate themselves as chocolate tasters. The key to samples is

- green—unflavored
- gold—unflavored
- silver—flavored

The meeting was preceded by a dinner in honor of Mr. Meyers at the Johns Hopkins Club.

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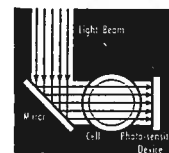
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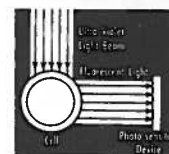
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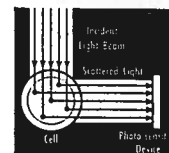
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Following dinner, the Annual Meeting for the election of officers for 1957 was held. Dr. Huntley Lloyd presented the slate chosen by the Nominating Committee, which was unanimously approved. The results are reported below:

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Raymond M. Burgison
School of Medicine
University of Maryland

Vice-Chairman

Edward A. Metcalf
Chemical Corps
Army Chemical Center

Secretary

Louise Kelley
Goucher College

Treasurer

Lloyd C. Felton
Hynson, Westcott and Dunning

Councilors (each for 3 years)

Belle Otto
Goucher College
Leslie Hellerman
School of Medicine
Johns Hopkins University

Alternate Councilors (each for 3 years)

Raymond L. Costa
Mutual Chemical Division,
Allied Chemical and Dye
John W. Gryder
Johns Hopkins University

To fill unexpired terms

Richard L. Hall (2 years)
McCormick and Company
Edward M. Hoshall (1 year)
U. S. Food and Drug Administration

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Catalyst Research Corp.
Raymond C. Crippen
Crippen and Erlich Laboratories
Samuel L. Goldheim
American Biochemical Laboratories
Richard J. Kokes
Loyola College
Raymond E. Vanderlinde
School of Medicine
University of Maryland

Attendance at the dinner numbered 15, and at the meeting numbered 63.

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SECTION NEWS



ACADEMIC

On October 13 Dr. Marguerite M. Schmidt of Goucher College attended the National Capital Area Work Conference on Science Fairs at Camp Letts, Edgewater, Maryland.

Dr. Louise Kelley and four students from Goucher College attended the Seventh Annual Eastern Pennsylvania Premedical Conference. The conference was held at Hahneman Medical College in Philadelphia on October 27.

Mr. W. Lawrence Hall, a student at Western Maryland College, was awarded the Henry Clary Jones Scholarship in recognition of his proficiency in chemistry. The award was presented on September 25 at the Fall Convocation of the college which is held at the start of the academic year. Mr. Hall is from Ridley Park, Pa. He is active in campus activities and is, at present, the president of the Student Government Association. This past summer he worked for the American Viscose Corporation in Philadelphia, Pa.

STATE

On Thursday evening, November 15, Dr. Henry C. Freimuth, Toxicologist, Office of Chief Medical Examiner, addressed the students of the junior and senior classes at Mount St. Joseph College on "Careers In Chemistry."

Dr. John A. Herculson was elected President of the Association of Official Racing Chemists at the annual meeting which was held in Chicago. The Association of Official Racing Chemists is international in character and consists of chemists who serve the racing authorities for thirty-two states and nineteen foreign countries.



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