



THE

CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXVII

SEPTEMBER, 1971

NUMBER 6

BIOGRAPHY OF DR. COOKE

EXECUTIVE COMMITTEE MINUTES

SEPTEMBER MEETING

7th MARM—CALL FOR PAPERS

1971-72 SECTION PROGRAM

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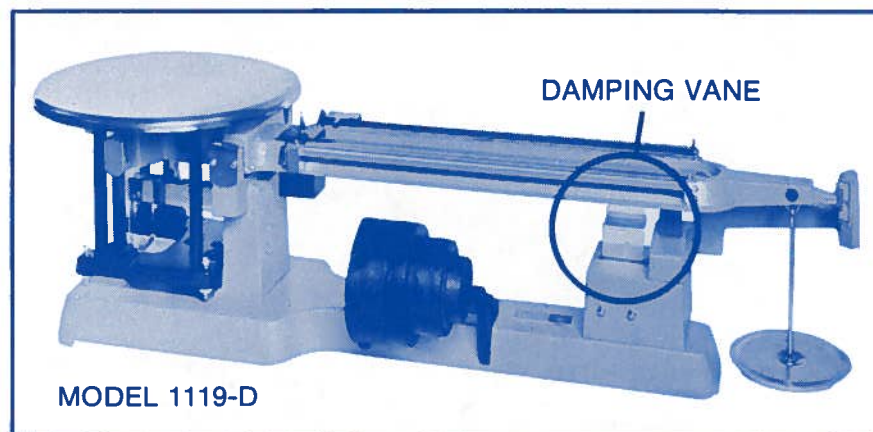
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SEPTEMBER MEETING

MARYLAND CHEMIST AWARD



DR. GILES B. COOKE

DATE:

WEDNESDAY, SEPT. 22nd, 1971 8:30 P.M.

PLACE:

Eudowood Gardens Lecture Room, Eudowood Plaza, Joppa Road near Goucher Boulevard.

TOPICS:

Dr. G. B. Cooke
"Chemistry in Applied
Research and Teaching"

DINNER:

Eudowood Gardens Dining Room. Price is \$5.50 per person for cocktails (6:30-7:15, unlimited quantity) and hot buffet dinner (7:15). Students and their spouses may attend the

dinner for \$3.00. Reservations are necessary for the dinner, and should be made with Mr. Allen Bednarczyk, McCormick and Co., Inc., 204 Wight Avenue, Cockeysville, Md. 21030, phone 666-3155, by Friday preceeding meeting. It is not necessary to be a member of the American Chemical Society to attend the dinner or the talks, and the talks may be attended without attending the dinner. You are invited to bring your wife and friends to both the dinner and the meeting.

SOCIAL HOUR:

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EXECUTIVE COMMITTEE MINUTES

Minutes of the Executive Committee Meeting of the Maryland Section of the American Chemical Society held on April 19, 1971, at Loyola College.

The meeting was called to order at 8:15 P.M. by the Chairman, Richard Kokes. Present were: T. C. Berenthien, Y. H. Caplan, J. L. Straughn, D. E. Jones, H. C. Freimuth, A. Bednarczyk, M. P. Miller, C. E. Minnier, J. J. Kaufman, J. L. Kolbe, G. L. Braude, F. T. Parr, T. C. Simmons, J. A. Cogliano, and H. S. Aaron.

The minutes of the previous meeting were accepted as published in the March 1971 issue of The Chesapeake Chemist.

Theodor Berenthien gave a Treasurer's Report, which is attached as an addendum to these minutes. The deteriorating financial condition of the Section, as reflected in this report, was discussed. Dr. Joyce Kaufman, Chairman of the Special Financial Committee, reported that a meeting of the committee (members: Ted Berenthien, Tim Parr, and Tom Simmons) had been held to evaluate the situation. The main financial drain upon the Section has been the cost of the monthly meetings and the deficit of The Chesapeake Chemist. These items were discussed. A motion was made, seconded, and passed that the Executive Committee be recorded in favor of taking whatever steps are deemed necessary by Dr. Kaufman and her Committee to reduce the publication costs of The Chesapeake Chemist. Dr. Kokes also suggested that Dr. Kaufman and her Committee take whatever action is necessary to reduce the costs of publication of the monthly meeting notices.

In view of the financial situation of the Section, the question was raised as to whether the Special Scholarship should be terminated or postponed in order to save the matching funds that are supplied by the Section. After some discussion, Dr. Jones moved that the Section reaffirm its earlier commitment and proceed with the scholarship program as

originally planned. The motion was seconded and passed. Dr. Kokes stated that he would look into the possibility of obtaining more funds for the program from local business interests, to replace the matching funds of the Section.

Dr. Minnier, Chairman of the Education Committee, reported that he would like to set up a speaker's bureau for high schools and junior high schools, if there is an interest. Dr. Kokes stated that he would like to see such a program set up for this fall, if possible.

Al Bednarczyk, Chairman of the House Committee, stated that he would like someone to take over the job of handling the monthly meetings. Dr. Kaufman said that Ed Glocker may be willing to take on the job, if he can get someone to assist him.

John Kolbe, Chairman of the Membership Committee, submitted and recommended Carl S. Gorzynski and Leonard W. Haddaway for Associate Membership. A motion was made, seconded, and passed that membership applications of this type should be handled according to the recommendation of the Chairman of the Membership Committee.

Dr. Kaufman, Chairman of the Program Committee, outlined the tentative program for next year. The April meeting is expected to be held on the UMBC Campus.

Dr. George Braude summarized the results of the Councilor's Meeting in Los Angeles. The main subject appeared to be the financial problems of the National ACS. Also, the so-called Professionalism Question of ACS members was debated. Dr. Alan Nixon is planning to run again for the Presidency of the ACS. Dr. Kaufman suggested that proxy

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MARYLAND SECTION

ACADEMIC YEAR 1971-1972

<u>Date</u>	<u>Subject and Speaker</u>	<u>Time P.M.</u>
September 22, 1971	MARYLAND CHEMIST AWARD Dr. Giles B. Cooke, Retired, Professor, Industrial Chemist, Author. "Chemistry in Applied Research and Teaching"	8:30
October 20, 1971	SCIENCE AND POLITICS Dr. Paul W. Bachman, Retired, author and consultant, Koppers Company, Inc. "Research and Politics"	5:00
	#Dr. William D. McElroy, Director, National Science Foundation "Science Policy and Politics"	8:30
November 17, 1971	CHEMISTRY EDUCATION NIGHT Dr. Theodore L. Reid, National Science Foundation. "New Directions for the Support of Science Education at the National Science Foundation"	5:00
	Professor Marjorie Gardner, University of Maryland. "Interdisciplinary Approaches to Chemistry"	8:30
December 15, 1971	INORGANIC NIGHT #Dr. Earl L. Muetterties, E. I. du Pont de Nemours & Co. "Transition Metal Hydride Chemistry"	5:00
	Professor Alvin MacDiarmid, University of Pennsylvania. "Silicon Chemistry"	8:30
January 26, 1972	RECENT INSTRUMENTAL METHODS Professor Rolfe Herber, Rutgers University "Architecture of Organometallic Compounds from Mossbauer Effect Systematics"	5:00
	Dr. Thomas Carlson, Oak Ridge National Laboratories. "Recent Developments in the Use of Electron Spectroscopy for Chemical Problems"	8:30
February 23, 1972	BIOCHEMISTRY NIGHT Professor William Bailey, University of Maryland "A new Synthesis of Polypeptides and Ordered Copolyamides Thru the Acylazide Hydrobromides"	5:00
	#Professor Ronald Breslow, Columbia University "Biometric Chemistry"	8:30

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<u>Date</u>	<u>Subject and Speaker</u>	<u>Time P.M.</u>
March 15, 1972	BIOCHEMISTRY OF THE BRAIN Dr. Daniel H. Efron, Chief, Pharmacology Division, Psychopharmacology Branch, National Institute of Mental Health. "Biochemistry of Psychosis"	5:00
	*#Dr. Julius Axelrod, Chief, Section on Pharmacology, National Institute of Mental Health. "Biochemistry of Catecholamines"	8:30
April 19, 1972	MOLECULAR ORBITALS (UMBC) Tour of the new Science Building, the University of Maryland Baltimore Campus	5:00
	*#Professor Robert S. Mulliken, University of Chicago. "Portrait of the Iodine Molecule" or "Recent Developments on Molecular Complexes"	8:30
May 24, 1972	REMSEN LECTURE Homewood Campus, The Johns Hopkins University Reception in honor of Remsen Lecturer, Faculty Club	6:00
	Remsen Lecture, Shaffer Hall	8:30
	**Recipient of a National ACS award. *Nobel laureate # Member National Academy of Sciences	

The meetings of September, October, November and December 1971 and January, February and March of 1972 will be held at Eudowood Gardens. The meeting in April 1972 will be held in the Chemistry Building, UMBC. The May 1972 meeting will be held at The Johns Hopkins University.

(continued from page 10)

Stanley A. Piatek Westway N., Baltimore
Vernon Dennis Ringbloom McKendree Rd., W. Friendship, Md.
Emory William Sarver Bayberry Rd., Edgewood, Md.
Gary Wayne Schnuelle Wycombe Way, Baltimore
David Martin Schwaber Janellen Dr., Baltimore
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MEMBERSHIP CHANGES

The following people have recently joined the Maryland Section of the American Chemical Society. The local Section welcomes each one and invites each member to attend Local Section meetings and to participate in Local Section Activities.

John Gordon Adams
Owings Mills, Md.

Robert Blevitt
Miror Light Place, Columbia

Eves John Breau
Johns Hopkins Univ., Baltimore

Roger Alan Brumback
Johns Hopkins Hosp., Baltimore

Kenneth A. Devor
JHU Medical School, Baltimore

Douglas Ward Donigian
E. Tarleton Ln., Baltimore

William Noel Einolf
Harman Ave., Baltimore

Donald Elmer Erdman
Carrbridge Circle, Towson

Philip Vincent Errico
Frederick, Md.

George Yuan Fei Kuo
Univ. Terrace, Columbia

Rodney Orell Fields
Manor Mill, Monkton, Md.

Louis Carl Fiorucci, Jr.
Cobourg Ct., Baltimore

Albert Michael Gardner
Beechwood Dr., Ellicott City, Md.

William H. Geer
Hart Rd., Highland, Md.

Carl Stanley Gorzynski, Jr.
S. Rolling Rd., Baltimore

Walter VanVleck Greenhouse
Rocksham Dr., Baltimore

Thomas Scott Griffin
Bernice Terrace, Aberdeen, Md.

George Mark Gurria
N. Charles St., Baltimore

Leonard Wesley Haddaway
Hernwood Rd., Woodstock, Md.

Francis J. Hartdegen
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City, Md.

Thomas John Kistenmacher
Johns Hopkins Univ., Baltimore

Donald W. Larsen
Henryton Rd., Marriottsville, Md.

Sumner Levine
Phantom Ct., Columbia, Md.

Mrs. Adoracion A.D. Lunasin
U.S. Naval Acad., Annapolis

Myron Thomas McCall
S. Rolling Rd., Baltimore

Victor H. Morgenroth III
Whirlwind Ct., Baltimore

Peter J. Pan
Rich Mar Rd., Owings Mills, Md.

Raymond Carl Petersen
Joey Dr., Ellicott City, Md.

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THE CHESAPEAKE CHEMIST

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votes be permitted on questions that appear on the pre-meeting agenda, by Councilors not able to be present at the meeting. She plans to make such a request to the National ACS.

Dr. Kaufman reported that a two day meeting for local section officers will be held in Philadelphia on May 13-15. The cost of the meeting will be \$50 plus transportation. A motion was made, seconded, and passed that Dr. Kaufman should attend the meeting and be reimbursed for her expenses.

Dr. Jones moved that we should provide the necessary funds (about \$1600) to cover the current bills of The Chesapeake Chemist. The motion was seconded and passed.

Dr. Jones moved that we should increase the Section dues to \$4 per year. The motion was seconded and passed. Dr. Kaufman moved that the new dues schedule be changed to read \$3 per year for dues, plus \$1 contribution for the Remsen award. The motion was seconded and passed.

Dr. Kokes announced that he has been invited by Professor Calvin, President of the ACS, to attend the inauguration of the President of Washington College on May 8, 1971, as the representative of the ACS. Dr. Kokes cannot attend, and he designated Dr. Straughn as his representative.

Dr. Miller stated that a questionnaire will be sent to the membership to assess interest in having the Section sponsor a short-course lecture series this fall.

Dr. Jones reported that the 1978 MARM date is open. He moved that the Maryland Section put in a bid to the MARM Steering Committee to sponsor the 1978 meeting. The motion was seconded and passed. He reported that the 1971 meeting, which was held in Baltimore, lost \$350. This sum would come out of the MARM sinking fund.

Dr. Simmons asked the membership for suggestions for a possible meeting place for future monthly meetings. The location should be convenient to reach, have adequate parking and meeting facilities, and offer dinner at a reasonable price.

The meeting was adjourned at 11:00 P.M.

Respectfully submitted
Herbert S. Aaron,
Secretary

EDITORIAL

You may notice that starting with this issue the appearance of the Chesapeake Chemist is different from past issues. In an effort to substantially reduce the printing expenses we have switched from a type-set printing operation to a direct photo off-set operation. In the interest of economy the luxury of having even margins has been forsaken.

(continued from page 9)

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Summit Ave., Baltimore

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Winborne Dr., Glen Burnie, Md.

Robert Frank Steiner
Turf Valley Rd., Ellicott City,
Md.

Irving M. Stillman,
Fallriver Row Ct., Columbia, Md.

Robert George Stone
Green Mt. Cr., Columbia, Md.

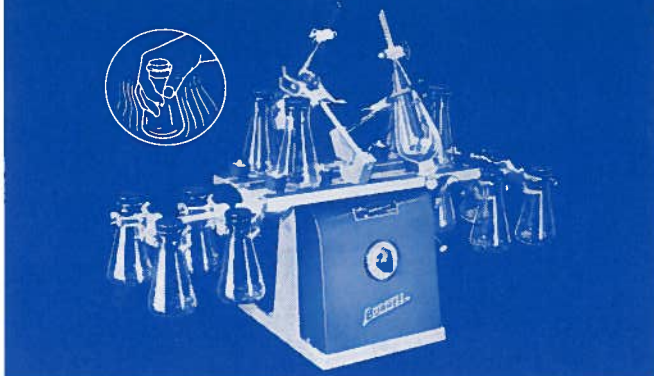
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DR. COOKE

Dr. Cooke's services to the Maryland Section began in committee work in connection with the National ACS meeting held in Baltimore in 1938. He has not stopped since. He continued to work long, hard and generously for the Maryland Section, serving on the Executive Committee, as Chairman of the Section, as editor of *The Chesapeake Chemist*, and as a Councilor. While on the national Council he was for several years a member of the Council Standing Committee on Membership Affairs, and later a member of the Council Committee on Education.

Dr. Cooke spent most of his working years directing research at Crown Cork and Seal Co. While there he acquired a national reputation for his knowledge of the properties of cork, and of bottle closures in general. He is the author of the book *Cork and the Cork Tree*.

Shortly after he retired from Crown Cork and Seal, Dr. Cooke began to teach a laboratory section in Freshman chemistry at Goucher College. Two years later, upon the death of H. Huntley Lloyd, Dr. Cooke took over Dr. Lloyd's work at Essex Community College, then a small, struggling junior college. As the college grew, Dr. Cooke became Chairman of the Division of Science and Mathematics, and built it up until, at the time of his retirement in 1967, it consisted of nine full time scientists and mathematicians and an equal number of part-time instructors, offering courses in mathematics, biology, chemistry, physics, physical science and engineering drawing. He planned the temporary laboratory structures used by the College on the old Dorsey campus, and the spacious new laboratories at the new Ridge Road campus. He had, moreover, great influence upon the overall development of the College, in curriculum, educational philosophy and administrative practices. Upon his retirement the College made him an emeritus professor, and plans to name the Science Building, soon to be constructed, the Giles B. Cooke Laboratories. Dr. Cooke's teaching was especially characterized by his great personal de-

votion to the welfare of his students whom he knew personally and well.

Dr. Cooke received his B.S. degree from the College of William and Mary; he continued his studies at the University of Maryland where he received both his M.S. and Ph.D. degrees.

CORK, COLLEGE AND INDUSTRIAL CHEMISTRY

Some of the problems involved with the materials suitable for packaging foods and beverages in glass containers will be discussed. A few years ago caps with cork liners were used on many foods sealed in jars and paper liners were preferred for dry sealing such items as instant coffee. Recently plastic sealing liners have replaced cork and rubber to a large extent.

The chemical composition of cork will be discussed. Since it is the bark of an oak tree, tannins are present. But even some chemists might be surprised to know that thirty percent of a high quality cork stopper consists of fatty acids.

Industrial chemical research is excellent preparation for teaching chemistry. A large percentage of chemistry students work in industry when they graduate. Today, college freshmen like to do things. Groups of two or three selected students enjoy demonstrating before the entire class such experiments as Boyle's Law, the estimation of oxygen in the atmosphere, the electrolysis of water, the conductivity of strong and weak electrolytes and the preparation of a mirror. The students who make the demonstration help prepare all materials and must be thoroughly familiar with their experiment. Such class activity helps the students learn and enjoy chemistry and gives them confidence.

COPY DEADLINE

Copy for the *Chesapeake Chemist* should be forwarded to the Editor not later than the tenth of the month preceding publication.

7th MARM CALL FOR PAPERS!

The 7th Middle Atlantic Regional Meeting (MARM) will be held next year at the Marriott Hotel, Philadelphia, Pennsylvania from February 14-17, 1972. The central theme of the meeting is "WORLD FOOD".

The success of this meeting will depend to a great extent on the quality and quantity of the papers to be presented. Let's make the Maryland Section well represented. Send inquiries to the following Chairmen:

General Meeting Chairman

Dr. Eugene Rosenbaum
Drexel University
Philadelphia, Penna. 19104
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Program Chairman

Dr. John F. Gall
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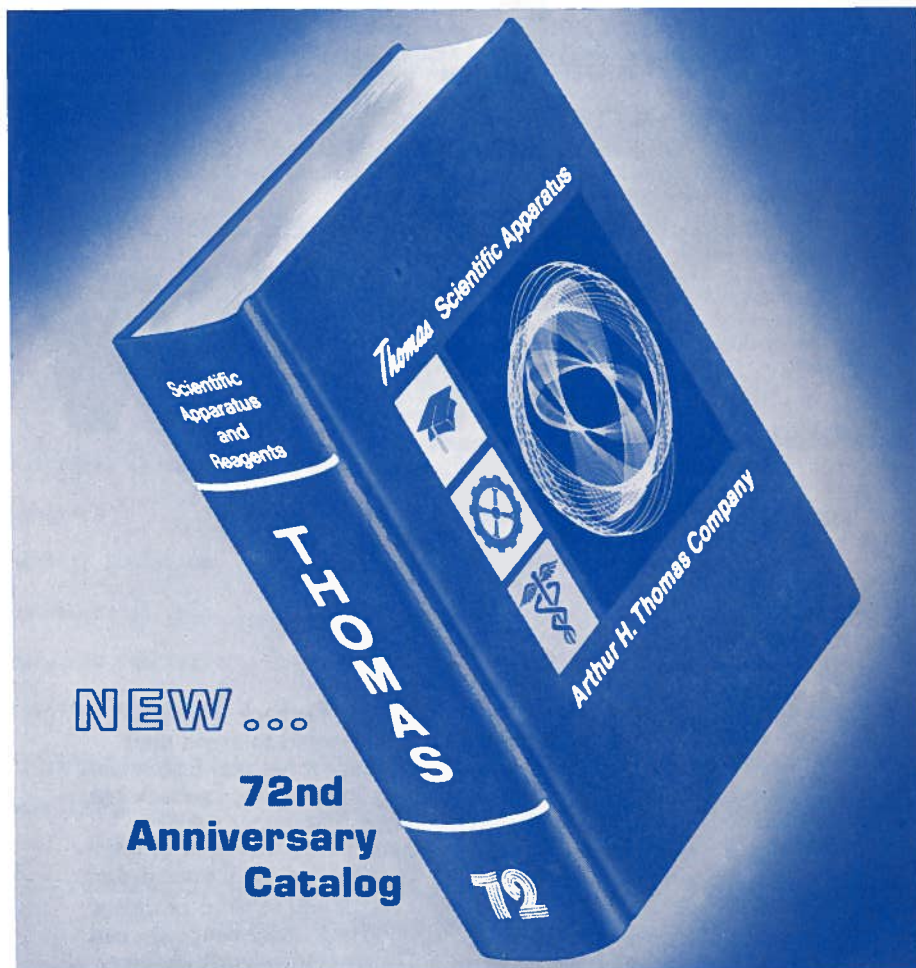
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