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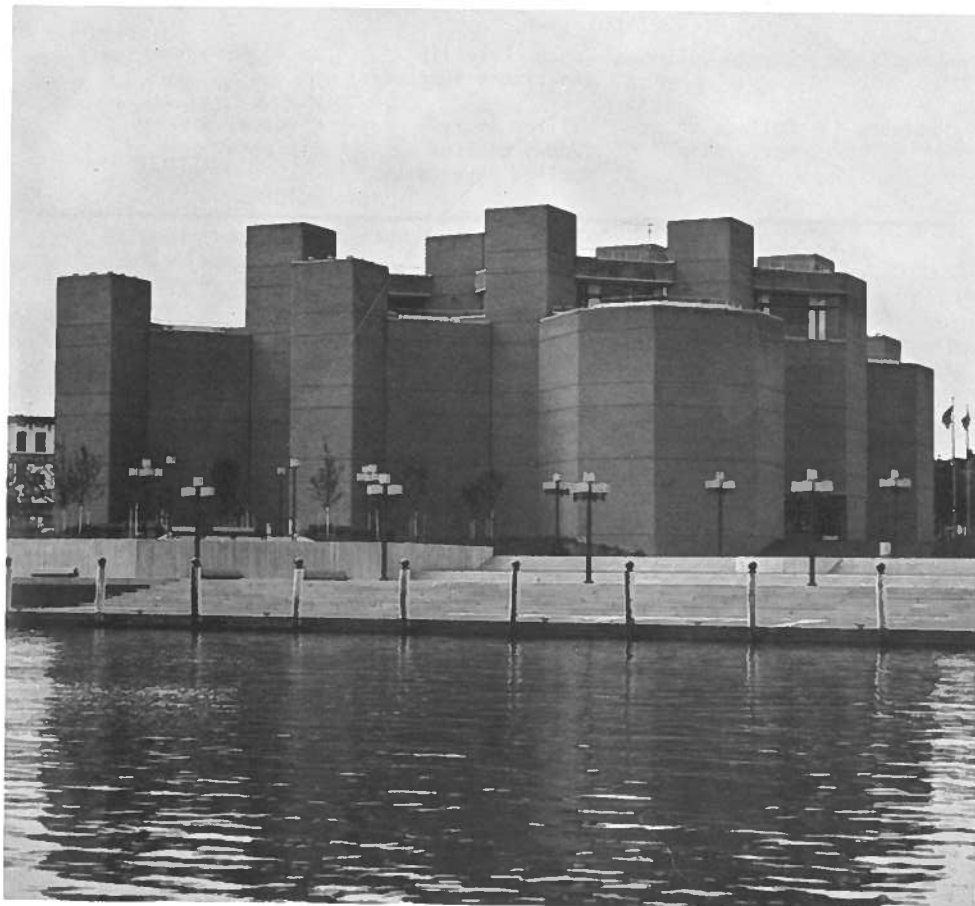
CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXV

SEPTEMBER, 1979

NUMBER 6



MARYLAND SCIENCE CENTER



THE CHESAPEAKE CHEMIST

MARYLAND SECTION FUTURE PROGRAM

Date	Location	Speakers	Topic
October 17	W. R. Grace Research Center	Laurence H. Dunlap (Armstrong Cork Co.)	Principles of Polymer Chemistry
		Charles Morgan (W. R. Grace & Co.)	Radiation Curable Coatings
		Richard M. Ikeda (E. I. duPont)	Gas Phase Polymerization
November 14	College of Notre Dame	John W. Vanderhoff (Lehigh University)	Polymer Structure Determination
		Donald T. Witiak (Ohio State Univ.)	Prostaglandin F ₂ Antagonist
December 12	College of Notre Dame	Daniel Lednicer (Mead, Johnson & Co.)	Serendipity and the Discovery of New Drugs
		Maryland Chemist Award	
January 16	Loyola College	Jon D. Franklin (Baltimore Sunpapers)	To Be Announced
February 13	College of Notre Dame	William Avery (Johns Hopkins Applied Physics Lab)	Chemical Storage of Energy

NOMINATING COMMITTEE REPORT

The Nominating Committee of the Maryland Section presents the following slate for the 1980 officers, councilors, and members-at-large of the Section:

Chairman-elect	Elwin C. Penski	Chemical Systems Lab.
Secretary	Frances C. Hummel	Alcolac
Treasurer	Harold Klapper	Chemical Systems Lab.
Councilor (1980-82)	Timothy F. Parr	Westinghouse
Alternate Councilor (1980-82)	Robert L. Caret	Towson State Univ.
Members-at-large (5)	Simon Courtade	UMAB
	Donald Hoster	Community Coll. Balt.
	Maria Kirk	College of Notre Dame
	Lou Sacchetti	Fisher Scientific
	Sister Vincent	College of Notre Dame

Any member of the Section may nominate additional candidates for any office before October 1, 1979 by providing the Section Chairman with nominating petitions containing the signatures of at least two percent of the Section members. The signature of a member may not appear on behalf of more than one candidate for the same office. The nominee must have agreed to serve if elected.

Melvin P. Miller, the 1979 Chairman-elect, automatically becomes Chairman in 1980.

James Leslie, Chairman
THE CHESAPEAKE CHEMIST

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Baltimore, MD 21210

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3440 Fairfield Road
Baltimore, MD 21226

Ronald Kassel.....Treasurer
US Army Armament Research and
Development Command
Chemical Systems Laboratory
Aberdeen Proving Ground
Maryland 21010

MEMBERS-AT-LARGE

H. R. Adams
Merle Eiss
Sr. Mary Vincent

Richard H. Smith
Alice Zeiger

COMMITTEE CHAIRPEOPLE - 1979

Awards and National nominations.....
Joyce J. Kaufman
The Johns Hopkins University
338-7417

Chemical Education...Sr. Mary Vincent
The College of Notre Dame of
Maryland
435-0100

Program.....Melvin Miller
Loyola College
323-1010

House.....Elwin C. Penski
CSL, APG-EA
671-3953

Member Assistance.....Joseph Cogliano
W. R. Grace & Co.
531-5711

Public Relations.....James Leslie
UMAB
528-7440

Membership.....Robert W. Kreps
412-B Hidden Brook Drive
Glen Burnie, MD 21061
760-9631

Publicity.....Richard H. Smith
Western Maryland College
848-7000

Remsen Award.....Dean Robinson
The Johns Hopkins University
338-7430

Finance.....Alvin Bober
655-5254

COUNCILORS

Donald Jones
David Roswell

Carl Minnier
Charles Rowell

ALTERNATE COUNCILORS

Clara I. Adams
William Zeiger

Patrick Callery
Thomas Simmons

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Raymond C. Petersen, 9329 Joey Drive, Ellicott City, Md. 21043. Send advertising copy and inquiries to Merle I. Eiss, McCormick and Co., Inc., 204 Wight Avenue, Hunt Valley, Md. 21031. The Maryland Section is not responsible for opinions expressed herein. Editorials express the opinions only of their authors. The Editor is responsible for all unsigned material.

FOIL A. MILLER

Dr. Foil A. Miller is University Professor of Chemistry and Director of the Spectroscopy Laboratory at the University of Pittsburgh. He attended Hamline University, the University of Nebraska and Johns Hopkins University. He then spent six years in teaching and research at the Universities of Minnesota and Illinois. He joined the staff of Mellon Institute in 1948 as Head of the Spectroscopy Division, and became Senior Fellow in Independent Research there in 1958. In 1967 he assumed his present post at the University of Pittsburgh.

His research, which has been primarily in infrared and Raman spectroscopy, has been described in approximately ninety publications.

Dr. Miller has been an Editor of *Spectrochimica Acta*, Chairman of the Gordon Conference on Infrared Spectroscopy (1958), and President of the Coblentz Society. In 1957-58 he held a Guggenheim Fellowship for study in Zurich, Switzerland, and in 1977 he was a Visiting Professor at Tohoku University in Japan. He was co-recipient of the 1964 Pittsburgh Spectroscopy Award, recipient of the 1965 Pittsburgh Award of the local section of the ACS, and recipient of the 1973 Hasler Award of the Society for Applied Spectroscopy. He has been a Reilly Lecturer at the University of Notre Dame, and a Titular Member and Secretary of the Commission on Molecular Spectroscopy of IUPAC (1967-75).

Dr. Miller has served the Pittsburgh Section of the ACS in many capacities, including Chairman, Councilor, and Director.

GREAT MISTAKES IN SCIENCE

During the development of science there have been occasional spectacular errors: cases in which substantial numbers of people worked on subjects which later were found to be incorrect, or at least unrewarding. The following examples will be discussed:

- N-Rays
- Mitogenetic Rays
- Allison's Magneto-Optic Effect
- Infrared Theory of Odor
- Super-dry Liquids
- Polywater

Some current fields of activity which are potential candidates will also be mentioned. Dowsing may be included in the discussion.

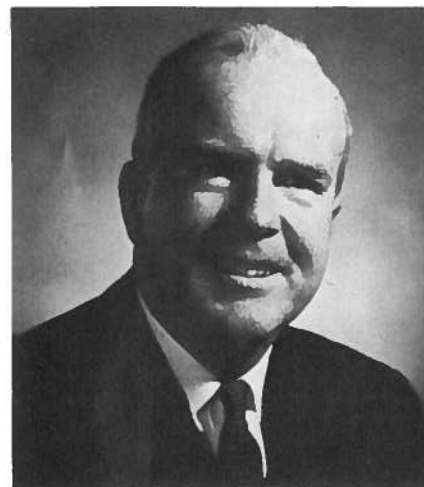
This is planned as a popular, relatively non-technical talk.

EXECUTIVE COMMITTEE MINUTES

The Executive Committee of the Maryland Section, American Chemical Society, was called to order by Chairman Howard Cohen at 7:40 P.M. on Wednesday, May 2, 1979, at the Knott Science Center, Notre Dame College, Baltimore. The following members were present: R. L. Caret, Howard Cohen, Merle Eiss, David Herlocker, Frances Hummel, Don Jones, Ronald Kassel, Robert Kreps, James Leslie, Melvin Miller, Carl Minnier, Elwin Penski, Ray Petersen and Sister Mary Vincent.

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SEPTEMBER MEETING



DR. FOIL A. MILLER

SPEAKER:

Dr. Foil A. Miller
University of Pittsburgh

SUBJECT:

Great Mistakes in Science

SOCIAL HOUR AND DINNER:

Social Hour: 6:00 pm
Dinner: 6:30 pm
Short Tours: 7:30 pm
Dinner Cost: \$8.00 (\$6.00
for spouses and students.)

Reservations are necessary for the dinner and should be made with

Melvin Miller

DATE AND TIME:

Wednesday, Sept. 19, 1979
8:00 pm

Phone: 323-1010
ext. 467

before Sept. 11, 1979

PLACE:

Maryland Science Center
601 Light Street
Baltimore

PARKING:

There should be adequate parking
in several nearby lots.

It is not necessary to be a member of the American Chemical Society to attend either the dinner or the talk. You are also welcome to the lecture without attending the dinner.

MICROANALYSES

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...cont. from p 4

The Minutes of the Board meeting of January 10, 1979 will appear in the May issue of *The Chesapeake Chemist*.

Treasurer Ron Kassel presented his annual report, for the year Jan. 1, to Dec. 31, 1978, which showed a final balance of \$7,901.27. An interim report from Jan. 1 to May 2, 1979 was also presented; the balance on hand is \$9,259.03.

Reports of the Standing Committees were as follows:

Awards and National Nominations. No report.

Chemical Education and Safety. Sister Mary Vincent reported that a shipment of books has been received from Dr. Miller; these will be examined.

Program Committee. Dr. Miller has arranged for places and speakers for the meetings of the Section to be held from September, 1979 until February, 1980. He has no speakers, as yet, for March and April, 1980; the May meeting will be the Remsen Award meeting at Johns Hopkins University. A copy of the present plan is attached.

House and Bylaws. Mr. Penski announced that the new by-laws were approved by the National Society at the Honolulu meeting.

Public Relations. Dr. Leslie had no report.

Membership. Mr. Kreps has reviewed the applications of four members and sent them to Washington.

Public Relations. Mr. Smith sent a request that publicity information should be sent to him with a liberal time allowance for him to arrange for publicity.

Remsen Award. The Remsen Award program will be held on June 6, 1979, at the Johns Hopkins University. Dr. Harry B. Gray will speak on *Mechanistic Studies of Solar Energy Storage Reactions Involving Polynuclear Rhodium Isocyanide*. The price of the dinner will be \$8.00.

High School Activities Committee. Mr. Bober was not present, but sent a report. He received a very appreciative letter from Mr. Benjamin Poscover, Supervisor, Secondary Science Teachers, Baltimore County Public Schools. The students were very favorably impressed with the dinner and programs at Annapolis in March. A financial report on the cost of the Student Awards Program was given by the Treasurer. We received a grant of \$400.00 from the National Society; total expense to the Maryland Section was \$1079.00, net.

The high school teachers need more help than entertaining students; it was suggested that publicity for our meetings be sent to the High School Science Teachers Newsletter. Talks which may be of special interest to chemistry teachers were suggested; this can be considered and handled by the Program Committee.

Student Awards. Dr. Minnier reported that each student was given a one year subscription to *CHEMTECH* by Dr. Luberoff, as well as a subscription to the *Journal of Chemical Education*. The group of awardees was very pleased to be given their certificates by Dr. Bailar, the evening speaker. Dr. Minnier suggested that the Student Award Program be continued as an annual event, to be held in either March or April; perhaps it could be held at Towson State University next year.

MARM. Dr. Gornick was not present; the Treasurer announced that the Section received \$2,900.00 for the 1978 MARM; the meeting will be held in Baltimore

again in 1985. Dr. Jones moved that a letter be sent to the MARM Steering Committee inviting them to schedule the 1985 meeting in Maryland, at Hunt Valley. The motion was seconded by Mrs. Eiss, and passed. Dr. Jones also suggested that Dr. and Mrs. Zeiger, as well as Mrs. Eiss, be considered as Chairmen of the meeting, since they did a very fine job in 1978.

Chesapeake Chemist. Dr. Petersen announced that the issue usually printed in May will be published late in the month, because the Remsen Award meeting will be held in June this year. He asked for suggestions or volunteers for a new assistant. Mrs. Eiss is trying to locate a new printer. She requested an appropriation of \$1,000.00 to take care of expenses for *The Chesapeake Chemist* until September. The appropriation was granted by unanimous ballot.

Councilors and Alternates. Dr. Jones reported that three of the four Maryland Councilors reached the Honolulu meeting; Mrs. Eiss was stranded by the United Airlines strike in San Francisco. There was very little business of a controversial nature carried on at the Honolulu meeting. There may be more in Washington in September, since the subject of allocation of allotments to Divisions will be discussed. Members should pay close attention to the Society business printed in *C&E News*, so that they can instruct the Councilors intelligently. A Professional Training Committee should be included in the Executive Board.

Old Business. Expenses of the Section for travel to meetings will be unusually high during 1979, due to the Honolulu meeting; in addition, Mrs. Alice Zeiger and Dr. Miller went to the Mini Officers Training session held at the MARM in New Jersey.

A meeting of the Nominating Committee will be held directly following the Executive Board meeting, May 2, 1979.

New Business. Mr. Cohen has investigated the subject of bonding the Section Treasurer for protection of the Section. Most do have bonding insurance; we have neither a Treasurer's bond nor an annual audit, which is required for such a bond. After considerable discussion, it was suggested that an outside audit of the Section books be considered, and the cost of bonding insurance be ascertained.

The meeting was adjourned at 9:00 P.M.

Respectfully submitted,

F. C. Hummel, Secretary

ACS RECOGNIZES COLUMBIA YOUTH

Chris Gronet, a student at Oakland Mills High School, Columbia, Maryland, has been honored by the ACS for his outstanding project and exhibit at the 30th International Science and Engineering Fair (ISEF) held in May in San Antonio, Texas.

More than 450 students from the U.S. and foreign countries -- winners from affiliated regional science fairs -- compete in the ISEF. The Society selects 10 students for recognition in the field of chemistry and confers four awards and six honorable mentions.

Mr. Gronet won the ACS Fourth Place Award for his project, "The Storage of Solar Energy in Organic Photoisomers." His award consists of a plaque, \$25 cash award, and subscriptions to the ACS publications *SciQuest* and *Journal of Chemical Education*. His teacher, Barbara Jewett, and his school were also recognized with certificates.

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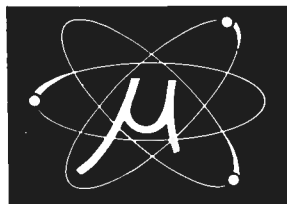
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Qualitative and quantitative elemental (>Be) microanalysis
- ☐ **Electron Spectroscopy for Chemical Analysis**
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- ☐ **Optical Emission Spectroscopy**
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- ☐ **X-Ray and Electron Diffraction**
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