



THE

CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXVII

JANUARY, 1981

NUMBER 1



ELWIN C. PENSKI
CHAIRMAN



MERLE EISSL
CHAIRMAN-ELECT



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SECRETARY



HAROLD KLAPPER
TREASURER

MARYLAND SECTION — ACS
OFFICERS FOR 1981

HAPPY NEW YEAR

Once again a new year has overtaken us, and the staff of *The Chesapeake Chemist* wish a Happy New Year to all members of the Maryland Section.

Our 1981 Section Officers are pictured on our front cover, and some other changes have also been made on page 3. Linda Sweeting replaces Merle Eiss as an Alternate Councilor, and Mary Salb replaces Merle as Business Manager of *The Chesapeake Chemist*. Don Hoster has assumed the Chairmanship of the Student Awards Committee and Ernie Silversmith is our Archivist.

We congratulate Mel Miller on the completion of his term as Chairman, wish Elwin Penski well for 1981, and Welcome Merle Eiss as Chairman-Elect.

We note with sadness the untimely passing of Bernard McNamara of the APG Chemical Systems Laboratory. He was scheduled to be a speaker at our February meeting, and he will be replaced in that capacity by Arthur McCreesh.

We also report (belatedly) on the selection of Don Jones as the first recipient of the Maryland Section Distinguished Service Award. This award was mentioned briefly in the Executive Committee minutes published in May, and is described in greater detail in this issue.

ACS COOPERATION WITH EPA

The ACS has been concerned for some time over the test standards proposed by the EPA under TSCA Section 4, which deals with "Health Effects and Tests Standards and Good Laboratory Practice Standards for Health Effects." In October, 1979, the Society sent EPA Administrator Douglas M. Costle an official communication criticizing the wide array of proposed test standards as too rigid and as not assuring a scientifically sound evaluation of the toxicology of some compounds. The ACS statement urged that EPA maintain "reasonable flexibility" in its implementation of Section 4 and replace its highly detailed proposed standards with a general performance standard coupled with recognized good laboratory practices. The statement also recommended that detailed study protocols for each compound be developed in consultation with EPA personnel on the basis of comments by interested members of the public.

More recently, the ACS staff Department of Public Affairs, under the guidance of the Board Committee on Public Affairs and Public Relations, has developed a plan for cooperating with the EPA by providing outside review, on an annual basis, of EPA's chemical fate test standards under Section 4 of TSCA. The plan calls for establishment of an overall review board of about 15 members which would review the work of 10 panels to be established to evaluate specific standards. Appropriate staff help would be made available to the review board and its panels.

At least one member of the review board would serve on each panel, and the review board would be accountable for the review and final approval of all reports submitted by its panels. These reports would be of obvious value to EPA in preparing the annual review of test standard adequacy which Section 4 requires the EPA Administrator to make. The ACS project also would help assure the general public that the scientific community and the Federal Government were working hand in hand to prevent unreasonable risks of injury to public health and to the environment.

At the Las Vegas meeting, the ACS Board of Directors endorsed as an appropriate endeavor for the ACS the current effort to develop between ACS and EPA a cooperative agreement of the type proposed.

-Mary L. Good, Chairman
ACS Board of Directors



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267-3302

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747-4195

COMMITTEE CHAIRPEOPLE - 1981

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

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

Program.....Elwin C. Penski

Archives.....Ernest Silversmith

House.....Nolan Phillips
385-0159

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531-5711

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321-2670

Membership.....
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760-9631

Publicity.....Donald Jones
Western Maryland College

Student Awards.....Donald Hoster
Community College of Baltimore
396-7991

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

Finance.....Alvin Bober
655-5254

MEMBERS-AT-LARGE

Donald Hoster
Maria Kirk
Cheryl Manger

Richard Rebbert
Sister Vincent

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Robert L. Caret

Alvin Bober
Clara Adams

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 Mary Salb, 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.

Dr. Isidore Adler is Professor of Chemistry and Chairman of the Geochemistry Division in the Chemistry Department of the University of Maryland at College Park. He was previously a Senior Scientist in the Laboratory for Space Physics at NASA's Goddard Space Flight Center. His work, mostly in the area of X-ray spectroscopy, has included studies of the composition of Apollo lunar samples and service as Principal Investigator for the X-Ray Fluorescence Experiment for both Apollo 15 and Apollo 16.

During the X-Ray Fluorescence Experiments, a special spectrometer was flown in the SIM bay of the Apollo Service Module. The device measured the composition of the lunar surface from orbit and detected X-ray fluorescence caused by solar X-ray interaction with the sunlit portion of the Moon. During the return to Earth, the experiment measured the galactic X-ray flux.

Dr. Adler came to NASA in 1964 from the U.S. Geological Survey where he was a Project Leader in X-ray spectroscopy. Before that he was a chemist and spectrographer for the U.S. Customs Laboratory in New York. From 1943 to 1945 he served as a Lieutenant in the U.S. Air Corps specializing in meteorology.

Born in Brooklyn, New York, Dr. Adler graduated from Brooklyn College in 1942 with a B.A. in chemistry. He received a B.S. in meteorology in 1944 from New York University. He received an M.S. in chemistry in 1947 and a Ph.D. in chemistry in 1952 from the New York Polytechnic Institute.

Dr. Adler is a member of the Society of Applied Spectroscopy and of Sigma Xi. His publications include two books, *X-Ray Emission Spectrography in Geology* and *Geochemical Exploration of the Moon and Planets*, and about 80 published papers in X-ray spectroscopy, lunar exploration and electron spectroscopy. He has received a NASA Exceptional Scientific Achievement Award and the Lindsay Award from Goddard Space Flight Center.

PLANETOLOGY IN THE SPACE AGE

The last two decades have witnessed a remarkable period of planetary study. We have in a remarkably short period of time obtained answers to questions that have occupied scientists for hundreds of years. For example, we now have in our possession some eight hundred pounds of samples collected by man in a systematic way from another planetary body and have managed to date many of the major events that shaped our moon. There have been numerous other accomplishments involving a close-up look at the terrestrial planets and the giant planets and their moons. Planetary exploration is continuing with many exciting things ahead. Not the least of the accomplishments has been the performing of chemical studies at very large remote distances. These will be illustrated by the lunar and Martian programs.

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JANUARY MEETING

DATE AND TIME:

Wednesday, January 21, 1981
8:00 pm

PLACE:

Lecture Hall #1
University of Maryland
Baltimore County
Catonsville, MD

SPEAKER:

Isidore Adler
Department of Chemistry
University of Maryland



ISIDORE ADLER

SUBJECT:

"Geochemical Exploration
of the Planets"

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COCKTAILS AND DINNER:

Chancellor's Dining Hall
UMBC

Cocktails: 6:30 pm
Dinner: 7:00 pm

by January 14. Late reservations may be made by calling

879-8589 (Baltimore local)
or 671-2243 (8:00 to 4:30

Dinner \$8.00 per person, but spouses, retired chemists and students may attend the dinner for \$6.00

weekdays)
877-2923 (evenings after 7:00)

before January 16.

Mailing checks early will reduce the length of lines at the door, make for a smoother operation, and assure your being served.

It is not necessary to be a member of the American Chemical Society to attend. You may attend the lecture without attending the dinner.

DIRECTIONS: Leave Baltimore Beltway (I-695) at Exit 12 (Wilkins Avenue). Follow Wilkins Avenue west a fraction of a mile to Walker Avenue. Turn left and take Walker Avenue to Loop Road. Turn left on Loop Road, and take the second right (Back Road). Park on Back Road or in Lot 11. The dining hall is to the west.

"WHEN DID YOU LAST ATTEND AN ACS MEETING?"

MARYLAND SECTION DISTINGUISHED SERVICE AWARD

Last spring the Executive Board of the Maryland Section established the Maryland Section Distinguished Service Award. The purpose of this award is to honor those members who have served the Maryland Section with outstanding service.

The Distinguished Service Award Committee, consisting of Howard Cohen (Chairman), Merle Eiss and Alvin Bober, recommended Dr. Donald E. Jones of Western Maryland College to be the first recipient, and the Executive Board accepted this nomination unanimously.

Dr. Jones has served as a member of the Section's Executive Board since 1966. He has been a delegate to the MARM Steering Committee since 1968 and has been Alternate Councilor, Chairman-Elect and Chairman (1974) of the Maryland Section. At the present time he is a Councilor and Chairman of the Publicity Committee.

On the national level he has been a member of the ACS Committee on Professional Training since 1975, and he has also held a number of regional offices, including Chairman-Elect and Chairman (1973) of the MARM Steering Committee, Chairman of the 6th MARM (1971) and Vice Chairman of the 12th MARM (1978).

The 1980 Distinguished Service Award was presented to Dr. Jones by Dr. Melvin Miller at the Maryland Section's September meeting.



UMBC

SPRING 1981 CHEMISTRY EVENING COURSES

CHEMISTRY 498 FORENSIC CHEMISTRY

Meets Wed. 7:00-9:00 p.m.

Instructor: Alvin Bober

CHEMISTRY 470 TOXICOLOGICAL CHEMISTRY

Meets Tues. & Thurs. 7:15-8:45 p.m.

Instructor: Dr. Jack Schubert

For Course Information, Call 455-2491

For Registration Information, Call 455-2291

MARYLAND SECTION FUTURE PROGRAM

<u>Date</u>	<u>Location</u>	<u>Speakers</u>	<u>Topics</u>
February 18	College of Notre Dame	John T. Yates (Nat. Bur. of Standards)	Surface Chemistry
		Arthur McCreesh (U.S. Army Environmental Hygiene Agency, APG)	Chemical Toxicology
March 18	U.S. Naval Academy	Edward J. Poziomek (APG Chem. Systems Lab.)	Perspectives on Chemical Defense Research
		William H. Zoller (Univ. of Maryland)	Atmospheric Chemistry

TOWSON STATE UNIVERSITY CHEMISTRY SEMINARS

February 17 Tuesday	Dr. Nordulf Debye, Chemistry Department Towson State University	Tin Mossbauer Spectroscopy
March 12 Thursday	Dr. Ralph Blomster, School of Pharmacy University of Maryland, Baltimore	Plants as a Source of Drugs

Place: Towson State University - Smith Hall - Room 541

Time: 12:45 pm Coffee & Doughnuts: 12:30 pm

Towson State University

SPRING 1981 CHEMISTRY EVENING COURSES

CHEM 1905.361 CHEMISTRY FOR DANGEROUS DRUGS
Meets Tues. 7-10p.m., Feb. 9 - June 6.
Instructor: Frank R. Milio, Assoc.
Professor of Chemistry, Towson State
University

CHEM 1905.367 FORENSIC CHEMISTRY. Meets
Thurs. 7-10p.m., Feb. 9 - June 6.
Instructor: John J. Tobin, Chief
Chemist, Md. State Crime Lab

We also offer the following courses in the evening in the Spring of 1981:

Chemistry for Non-Scientists, General Chemistry I, General Chemistry II, Chemistry for Allied Health Sciences II, Organic Chemistry I, and Organic Chemistry II.

For Course Information, Call 321-3058

For Registration Information, Call 321-2022

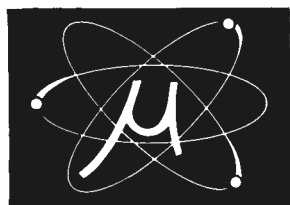
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302-998-1184.