



THE **CHESAPEAKE
CHEMIST**

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXVIII

NOVEMBER, 1982

NUMBER 8



EDGEWOOD OFFICERS' CLUB

MARYLAND SECTION FUTURE PROGRAM

Date	Location	Speakers	Topic
December 15	College of Notre Dame		Maryland Chemist Award
January	No meeting		
February 23	College of Notre Dame	Mark Elert U.S. Naval Academy	
		Ahton Peterlin NBS	Deformation of Semi-crystalline Polymers
March 30	College of Notre Dame	V. Frank Boyd Litton Bionetics	Pesticides - Chemistry and Politics
		Dorit Neother CHEMTECH	H ₂ O - a 360° View
April 20	U. S. Naval Academy	Nina Roscher American University	Careers in Chemistry
		Charles Braun Dartmouth College	
May			Remsen Award

REMSSEN AWARD

The Remsen Award committee is soliciting suggestions and nominations for the 1983 Remsen Award. Nominations and requests for information should be sent to Dr. Robert L. Caret at Towson State University.

BAEKELAND AWARD

The North Jersey Section of ACS is inviting nominations for the 1983 Leo Hendrik Baekeland Award. The deadline for nominations is January 3, 1983.

This prestigious award, sponsored by Union Carbide Corporation, is given biennially to recognize accomplishments in pure or industrial chemistry in the image of Baekeland.

The Editor and the Secretary of the Maryland Section can provide more detailed information to anyone wishing to make a nomination.

ACS CONGRESSIONAL FELLOWS

The ACS is seeking candidates for a one year appointment for its two ACS Congressional Fellowships. The deadline for applications is January 31, 1983, and the fellowship term will begin in September 1983. Further information can be obtained from ACS Headquarters in Washington, the Department of Public Affairs: telephone (202) 872-4384.

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655-5254 Alvin Bober

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

Finance.....Harold Klapper
653-3351

MEMBERS-AT-LARGE

Paul Gabbert Joseph Topping
Cheryl Manger William Zeiger
John Roach

ALTERNATE COUNCILORS

Linda Sweeting Timothy J. McNeese
Robert L. Caret

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to the Editor. Send advertising copy and inquiries to the Business Manager. 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.

Alfred R. Bader, a native of Vienna, Austria, received bachelor's degrees in chemical engineering and history from Queens University, Ontario. He received masters degrees in chemistry from Queens and Harvard, and a Ph.D. from Harvard in 1950, where he worked with Louis Fieser.

Dr Bader was employed as a research chemist and group leader with Pittsburgh Plate Glass Company until 1954 when he became chief chemist of Aldrich Chemical Company in Milwaukee. In 1955 he became president of Aldrich, a position he held until 1981. He is now chairman and chief executive officer of both Aldrich and Sigma-Aldrich, a company specializing in biochemicals and clinical reagents.

His research has contributed to the development of new compounds and synthetic methods in the areas of fatty acids, quinones, alkenylphenols and indoles. Under his leadership, Aldrich has developed new reagents and techniques for organic synthesis and made them routinely available to research chemists.

Under Bader's guidance, compilations of infra-red and nuclear magnetic resonance spectra have been published in the Aldrich Library of Infra-red Spectra and the Aldrich Library of Nuclear Magnetic Resonance Spectra. These volumes are widely used references in chemical research laboratories.

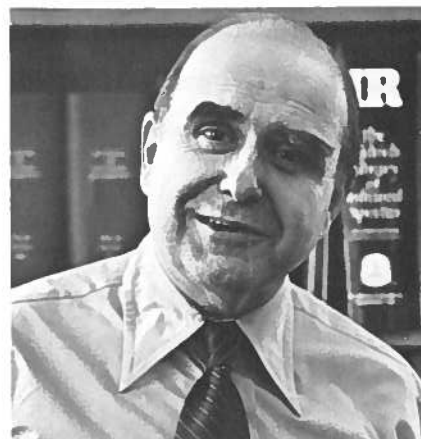
Dr. Bader's interest in art and art history began with his first acquisition as a boy in Vienna. He is well known for his research on and restoration of paintings by the 17th century Dutch masters, and in 1976 he organized an exhibit in Milwaukee entitled "The Bible through Dutch Eyes". His status as a collector is demonstrated by his selection as a Fellow of the Royal Society of Arts and his appointment as a Guest Curator at the Milwaukee Art Center. He has acquired an extensive private collection of paintings, and has donated numerous paintings to the Milwaukee Art Center and to other institutions.

CHEMISTRY IN ART

As a collector of old master paintings I look every year at several hundred old paintings--in junk and antique stores and at auctions all over the world--and have to decide, usually within minutes, whether a painting is worth buying. The first criteria is, of course, the general artistic merit of the work--often hard to discern in paintings covered with centuries of dirt. Secondly, is the painting really what I think it is. I am offered a painting said to be by a Dutch 17th century artist--are the pigments those used by 17th century artists? Are the wood or canvas and the ground those used by 17th century Dutch artists? Once I have acquired an old painting, the surface dirt is usually easily removed with mild solvents, and the decision has to be made how much restoration to do. Is the painting an original, a workshop production or a later copy? Is the painting in its original size? What is the condition of the support--be it canvas, wood, metal or slate? How much old restoration is there and should it be removed? Almost every old painting has some overpaint--was this added to hide losses or subjects considered undesirable by previous owners? If the painting is signed, is the signature original? The last questions can generally be answered by a combination of physical and chemical means, chiefly examination with uv light and under a magnifying glass, and tests with various solvents. Many specific examples will be given to illustrate these questions and their answers.

"WHEN DID YOU LAST ATTEND AN ACS MEETING?"

NOVEMBER MEETING



DR. ALFRED R. BADER

DATE:

Wednesday, November 17, 1982

PLACE:

Officers' Club
Edgewood Area
Aberdeen Proving Ground
(NOT the Aberdeen Area)

RESERVATIONS:

Dinner reservations are necessary and should be made by mailing checks to

Charles Rowell
Chemistry Department
U. S. Naval Academy
Annapolis, MD 21401

SCHEDULE:

6:00 Social Hour
(Cash Bar)
Poster Session
(Sponsored by Sigma Xi)

7:00 Dinner

8:00 Alfred Bader
Aldrich Chemical Company
"Chemistry in Art"

by November 8. Checks should be payable to Maryland Section of ACS. Late reservations may be made by calling Linh Cheong at

(301) 355-3600 ext 20B

by November 10.

Dinner price \$9.50 per person, but retired chemists and students may attend the dinner for \$7.50

It is not necessary to be a member of the American Chemical Society to attend.

DIRECTIONS: Take I-95 north to exit 4. Take route 24 south to the Edgewood Area of Aberdeen Proving Ground. The guard will be expecting all who have made reservations. After being admitted by the guard, continue straight past a traffic light. The road will then be identified as Hoadley Road. Follow this to a stop sign, a chapel and Austin Road. Turn right on Austin Road. After a Children Warning sign bear left onto Parrish Road. The second right, Gunpowder Loop, will pass the front of the Officers' Club (Bldg E-4650). Parking is in the rear.

POSTER SESSION

Once again the poster session at the November meeting will be presented by the Chesapeake Chapter of Sigma Xi. Identities of authors and titles of the papers were not available at press time.

Also during the social hour preceding dinner, Dr. Bader will offer advice on restoration or identification of old paintings which members may wish to discuss.

EXECUTIVE COMMITTEE MINUTES

The Executive Committee, Maryland Section, American Chemical Society, was called to order by the Chairman, Merle Eiss, at 7:40 P.M. on Wednesday, September 8, 1982, at the Knott Science Center, Notre Dame College. The following members were present: L. Cheong, H. Cohen, M. Eiss, H. Freimuth, P. Gabbert, D. Hoster, K. Kirk, C. Manger, T. McNeese, E. Penski, R. Petersen, N. Phillips, C. Rowell, J. Roach, E. Silversmith, Sister M. Vincent, M. Zapf.

The minutes of the meeting of April 6, 1982 were read and approved. All members introduced themselves.

Treasurer. N. Phillips reported the balance in checking is \$832.73, the savings balance is \$20,960.15; total balance is \$21,792.88.

Committee Reports. M. Eiss announced the names of the new committee Chair-people: Chemical Education and Safety: Alvin Bober; House: Linh Cheong and Paul Gabbert; High School Activity: John Roach and Mike Zapf.

Awards and Nominations. E. Silversmith reported that the Committee met and selected the recipient of the Maryland Chemist Award: Dr. Katz of JHU.

M. Eiss announced for D. Jones that the 1982 Service Awardee is E. Silversmith.

The North Jersey Section is seeking nominations for the Baekeland Award.

Program. C. Rowell reported that speakers were known for all meetings except the Remsen Award.

House. C. Manger reported that 63 persons attended the Remsen Award Dinner at JHU. N. Phillips said that the dinner cost \$950 above the amount collected for dinner.

By-laws. E. Penski and Archives will keep copies of the by-laws.

Member Assistance. No report.

Public Relations. No report.

Membership. Approximately 100 new members' names have been added to the *Chesapeake Chemist* mailing list. K. Kirk has received some written inquiries; apparently a large number are going straight to headquarters. Kris will continue the letter writing campaign to personally invite new members to meetings.

Publicity. No report.

High School Activity. M. Zapf reported that he had interviewed high school teachers throughout several counties. To draw teachers in through their students we need 1) a central contact in the ACS for teachers, making personal contact, 2) to develop a direction, and 3) interaction and support between levels. Projects suggested were a book drive, a meet-the-scientist night, a traveling chemistry show or a chemical instruments show and industrial tours for students. Dave Daniels will have a booth at the National Meeting for High School Science Teachers.

C. Rowell said that persons, perhaps students, were needed to continue the chemistry demonstration at the Maryland Science Center. Mary Hyman is the contact person there.

E. Penski suggested that we might distribute information on obtaining Government surplus equipment.

It was also suggested that retired chemists might be called on as volunteers for some of these projects.

Remsen Award. In the absence of R. Caret, M. Eiss reported that the meeting for nominations will be held in December; the tentative date for the Remsen Award dinner is May 18.

Student Awards. D. Hoster announced that April will be the student awards night, and the meeting will be held at the Naval Academy. C. Rowell announced that the speakers' topics should be of interest to the students.

Congressional Science Councilors. No report.

Chesapeake Chemist. Editor R. Petersen said the October issue is at the printer. Business Manager A. Harmon sent along a financial report for the 1981-82 business year in his absence. At this time he needs \$700 for publication costs.

MARM. In the absence of R. Caret, M. Eiss reported that, since it was under new management, the Convention Center would be approached again.

Archives. No action. It was requested that pertinent material for the archives be sent to E. Silversmith.

Old Business. None.

New Business. N. Phillips requested that the Councilor forward the reimbursement form quickly after the Kansas City meeting.

M. Eiss reported that the 1983 MARM will be held on April 6-8 at the Pocono Hershey Resort.

C. Rowell described a Local Section Membership Survey which includes topics to be discussed at the Kansas City meeting. They were 1) sunshine laws for committees, 2) whether to give *C&E News* to emeritus members for free, and 3) whether the yearly allotment to the local sections should be increased.

M. Eiss said that the next Executive Committee Meeting will be held on December 1, 1982.

The meeting was adjourned at 9:02 P.M.

Respectfully submitted,

Cheryl L. Manger
Secretary

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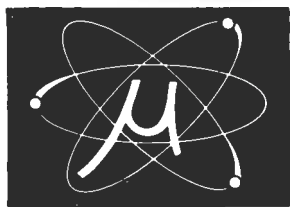
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