



THE

# CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. XXXIV

OCTOBER, 1978

NUMBER 7



SOKOL



MAGEE



EPPLER



HERMAN



HAMILTON



LOUX



TATMAN

**CHEMICAL R&D IN INDUSTRY**

<u>Cash on Hand in Banks, January 1, 1977</u>		
Union Trust Checking Account . . . . .	\$ 1,505.54	
Union Trust (ESP Account) . . . . .	864.06	
Loyola Federal . . . . .	5,013.52	
<i>The Chesapeake Chemist</i> Account . . . . .	667.03	
TOTAL	\$ 8,050.15	\$ 8,050.15

<u>Receipts</u>		
ACS Allotment . . . . .	\$ 4,953.00	
ACS Commissions . . . . .	40.00	
Local Dues . . . . .	1,738.00	
Dinner Meetings		
Payment for Dinners . . . . .	3,217.50	
Bar Support by Firms . . . . .	317.50	
ACS Councilor Refund . . . . .	187.50	
Advertising in <i>The Chesapeake Chemist</i> . . . . .	1,246.90	
Interest on Savings Account . . . . .	465.66	
MARM Funds . . . . .	123.74	
Short Course . . . . .	170.50	
Miscellaneous . . . . .	54.62	
TOTAL	\$12,514.92	\$12,514.92
CASH ON HAND + RECEIPTS		\$20,565.07

<u>Disbursements</u>		
Administrative		
Office Supplies . . . . .	\$ 539.85	
Clerical Help . . . . .	25.00	
Officers' Expenses . . . . .	283.61	
Miscellaneous . . . . .	25.00	
TOTAL	\$ 873.46	\$ 873.46
Committees		
Education . . . . .	\$ 497.07	
Membership . . . . .	32.83	
TOTAL	\$ 529.90	\$ 529.90
Meetings		
Speakers' Expenses . . . . .	\$ 703.11	
Dinner Costs . . . . .	5,093.08	
Miscellaneous . . . . .	261.71	
TOTAL	\$ 6,057.90	\$ 6,057.90
Councilors' Travel		
<i>The Chesapeake Chemist</i> . . . . .	\$ 356.00	
Awards . . . . .	3,224.29	
MARM Advance . . . . .	518.10	
MARM Advance . . . . .	500.00	
TOTAL	\$ 4,598.39	\$ 4,598.39
TOTAL DISBURSEMENTS		\$12,059.65

<u>Cash on Hand in Banks, January 1, 1978</u>		
Union Trust Checking Account . . . . .	\$ 422.29	
Union Trust (ESP Account) . . . . .	609.75	
Loyola Federal . . . . .	5,283.74	
<i>The Chesapeake Chemist</i> Account . . . . .	189.64	
TOTAL	\$ 8,505.42	\$ 8,505.42
CASH ON HAND + DISBURSEMENTS		\$20,565.07



# THE CHESAPEAKE CHEMIST

VOL. XXXIV                      OCTOBER, 1978                      NUMBER 7

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Clara I. Adams                      Patrick Gallery  
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COVER: Upper row: Speakers for the 5:15 concurrent sessions. Lower row: 7:30 speakers. Center: Plenary session speaker (See p. 5 for details).

*The Chesapeake Chemist* is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Eli Freedman, 2411 Diana Road, Baltimore, Md. 21209. Send advertising copy and inquires 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.

SYNOPSIS OF THE TALKS

1. *The Chemistry of a Coiffure*, Phillip E. Sokol (Gillette Research Institute)

The application of modern chemistry and a fair understanding of hair structure facilitate the achievement of innumerable changes in hair configuration.

2. *Recent Advances in Petroleum Cracking*, John S. Magee (W. R. Grace)

An overview of the effects that zeolite cracking catalysts have had on the petroleum industry and catalyst manufacturers.

3. *Lead Poisoning and How to Control It*, Richard A. Eppler (Chem/Met Div, SCM)

The measures taken to control the sources of lead poisoning will be described, especially those arising from improperly glazed ceramic dinnerware.

4. *Getting Online with the Chemical Literature*, Jeanette Hamilton (W. R. Grace)

The various types of information available and the techniques for obtaining them by interactive searching of data bases by computer will be described.

5. *Organic Coatings and the Chemist--A Challenge to Innovative Thinking*, Cal C. Tatman (Chem/Met Div, SCM)

Organic coatings from the cave wall painters of France to a sophisticated, scientifically run complex of operations.

6. *Environmental Chemistry*, Harvey M. Loux (DuPont)

PLENARY SESSION

*Amantadine HCl--Antiviral Breakthrough*, Edward C. Hermann (DuPont)

Amantadine HCl is the first drug for the prevention and symptomatic treatment of influenza. The events leading to its discovery, the chemistry and structure-activity relationships of some related compounds, and the story of its development and subsequent commercialization will be reviewed.



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# OCTOBER MEETING

CHEMICAL RESEARCH AND DEVELOPMENT IN INDUSTRY

PLACE: W. R. Grace & Co., Research Center  
7379 Md. Route 32  
Columbia, Maryland

DATE: Wednesday, October 18, 1978

PROGRAM

5:15 pm Concurrent Topical Sessions (Part I)

1. Phillip E. Sokol (Gillette): "The Chemistry of a Coiffure"
2. John S. Magee (W. R. Grace): "Recent Advances in Petroleum Cracking"
3. Richard A. Eppler (Chem/Met Div, SCM): "Lead Poisoning and How to Control It"

5:45 pm SOCIAL HOUR (Compliments of W. R. Grace & Co.)

6:30 pm DINNER. Price: \$7.50 (members and guests)  
\$4.50 (students)

7:30 pm Concurrent Topical Sessions (Part II)

4. Jeanette Hamilton (W. R. Grace): "Getting Online with the Chemical Literature"
5. Cal C. Tatman (Chem/Met Div, SCM): "Organic Coatings and the Chemist--A Challenge to Innovative Thinking"
6. Harvey M. Loux (DuPont): "Environmental Chemistry"

8:15 pm PLENARY SESSION

Edward C. Herman (DuPont): "New Anti-Viral Drugs"

RESERVATIONS are necessary only for the dinner.

Call ACS RESERVATIONS, c/o Howard J. Cohen, 633-6400, X 7203 or 7360  
Mon - Fri, 9 - 4.

DIRECTIONS: The W. R. Grace Research Center is located on the north side of Maryland State Route 32, 2.0 miles west of the intersection of Route 32 and US Route 29.

## THE CHESAPEAKE CHEMIST

Yearly Financial Statement for 1977

Cash Balance January 1, 1977 \$ 667.03

Receipts:

Advertising	\$1,246.90	
Allowance from Section: March 30, 1977	<u>1,500.00</u>	
	\$2,746.90	<u>2,746.90</u>
Total		\$3,413.93

Disbursements:

Postage	\$ 253.47	
Printing Costs	2,469.15	
Addressographing	175.00	
Mailing	40.00	
Secretarial Assistance	277.83	
Miscellaneous (Checking Account Charges, and Stickettes)	<u>8.84</u>	
	\$3,224.29	<u>\$3,224.29</u>

CASH BALANCE JANUARY 1, 1978 \$ 189.64

### IF YOU CHANGE YOUR ADDRESS . . .

Please **DO NOT** notify the Editor of the *Chesapeake Chemist*, but send your new and old addresses to: The American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036. The Maryland Section will then be notified.

## MICROANALYSES

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## THE EDITOR'S FIST

FAREWELL...AND WELCOME

Careful students of page 3 of this magazine will have noticed that Kent Zeller has stepped down as Business Manager of *The Chesapeake Chemist*, and that Merle Eiss now occupies this important position.

Kent will remain an active member of the Maryland Section, but he has decided to direct his volunteer work in other directions. Merle is no newcomer to *The Chesapeake Chemist*, for which she worked at a time when the present Editor thought that "Chesapeake chemist" was *Bawlamoese* for a marine biochemist.

To Kent: Many thanks for a job well done! To Merle: Welcome, welcome, and will you please look at these bills the Editor has run up....

### CHEMISTRY SEMINARS AT TOWSON STATE UNIVERSITY

All seminars are held in Smith Hall, room 554, at 12:30 pm

October 24 Cecil Dybowski (University of Delaware):  
*High Resolution NMR in Bulk Polymers: How Too Much  
Relaxation Can Spoil Your Fun*

November 16 Gerald Zon (Catholic University of America):  
*Stereochemical and Mechanistic Aspects of Cyclophosphamide  
Metabolism*

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