



THE

# CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. XLII

APRIL, 1986

NUMBER 4

AMERICAN CHEMICAL SOCIETY

For

Outstanding Achievement in Chemistry





## ARNOLD L. RHEINGOLD

Dr. Rheingold obtained his B.S. degree from Western Reserve University (now Case Western Reserve University) in 1962, and an M.S. degree from the same institution in 1963. From 1963 to 1965 he was a project manager for organometallic chemistry for the Glidden Co. (Cleveland, OH). After receiving the Ph.D. degree from the University of Maryland in 1969, he spent a postdoctoral year at VPI with Ray Dessy working in organometallic electrochemistry. From 1970-1981 he was professor of chemistry at the State University of New York-Plattsburgh. After a 1980-81 sabbatical leave at SUNY-Buffalo with Mel Churchill studying crystallography, he joined the faculty at the University of Delaware where he is now an associate professor. Since 1981, Dr. Rheingold has been the author of over 100 publications in the synthesis and crystallographic structural characterization of organometallic compounds.

### CRYSTALLOGRAPHY IN CHEMISTRY

High thermal stability is created in transition-metal clusters by the incorporation of highly connected main-group atoms. The heavier group-15 elements (primarily As and Sb) have proved particularly well suited. Generally, the mechanistic pathways for cluster formation are characterized by the presence of definable metal fragments (e.g.,  $\text{Mo}(\text{CO})_3$ ,  $\text{CpMo}(\text{CO})_2$  and  $\text{Co}(\text{CO})_3$ ) selecting from a dynamically reorganizing melange of main-group compositions those parts which "fit" best sterically and electronically. The talk will emphasize new structural forms as characterized by X-ray crystallography.

### BEFORE THE BRIDGE

Charles J. Krister of Wilmington has sent us a book review, written by himself for the *Del-Chem Bulletin*, of Phillip J. Wingate's *Before the Bridge*. (Tidewater Publishers, Centreville, Md.)

Wingate, a retired DuPont chemist, was born and raised on Maryland's Eastern Shore, and he writes of his family and neighbors in Dorchester County as well as of the geography and wild life of the land and water.

The book also includes sketches of men who influenced his life, including H. L. Mencken, the University of Maryland's Nathan Drake and "Curley" Byrd and E. Emmet Reid of Johns Hopkins.

Charles Krister suggests that many members of the Maryland Section will enjoy this book by Phillip Wingate, who has also published another book entitled *The Colorful DuPont Company*.

### CHEMISTRY SETS

Professor George L. Gilbert of the Denison University chemistry department is soliciting letters or other contributions which illustrate the ways in which chemistry sets (such as those by A. C. Gilbert) influenced the career choices of their users. He hopes to assemble responses in statistical and anecdotal form for presentation at a symposium entitled "Chemistry in Informal Settings" to be included in the ACS national meeting at Anaheim.

Professor Gilbert may be contacted at Denison University, Granville, Ohio 43023; telephone (614) 587-6490.

### REMSEN AWARD

The Remsen Award meeting is scheduled May 28 at the Johns Hopkins University.

## APRIL MEETING

### DATE:

Wednesday, April 23, 1986

### PLACE:

The College of Notre Dame  
of Maryland  
North Charles Street  
Baltimore

### SCHEDULE:

6:30 Doyle Building Lounge  
Social Hour  
7:15 Dinner  
8:15 Knott Science Center  
Arnold Rheingold  
Univ. of Delaware  
"Crystallography  
in Chemistry"

### RESERVATIONS:

Dinner reservations should be made by mailing checks, payable to Maryland Section of ACS, to

John Corliss  
P. O. Box 20899  
Baltimore, MD 21209

by April 14. Late reservations may be made by calling

John Corliss at (301) 235-6612 or Nolan Phillips at (301) 939-3500

by April 21.

Dinner price \$11.50 per person, but spouses, retired chemists and students may attend for \$9.50

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

## Pick up a full Year of Chemistry This Summer. . . in the Evening

**CHEM 111-2 Inorganic Chemistry I & II** 5 + 5  
**CHEM 211-2 Organic Chemistry I & II** 5 + 5

**Only Baltimore area community college offering these courses  
in evening this summer.**

Each course meets for 5 weeks, Monday through Thursday,  
from 6:00 - 10:45 p.m., during two 5-week Summer Sessions,  
beginning June 9 and ending August 19.

You may also take individual courses  
during either of the 5-week sessions.

All courses are fully transferable for science  
and engineering majors

**Call for information and requirements.  
Chemistry Department — 522-1546 or 522-1508**

**ESSEX COMMUNITY COLLEGE**  
Baltimore County, Maryland 21237-9987

Beltway Exit 34, near Golden Ring Mall and Franklin Square Hospital.



THE JOHNS HOPKINS UNIVERSITY

Department of Chemistry

*Spring Semester Colloquium Schedule 1986*

Colloquia are held at 4:15 pm (unless otherwise noted) in Remsen Hall room 221 on the Homewood Campus of The Johns Hopkins University. Refreshments are served before each colloquium at 4:00 pm.

<i>Day and Date</i>	<i>Speaker and Affiliation</i>	<i>Title</i>
Tuesday April 8, 1986	Professor Eric Weitz Department of Chemistry Northwestern University Evanston, Illinois	"Studies of the Spectroscopy and Reaction Kinetics of Coordinatively Unsaturated Metal Carbonyls via Transient Infrared Spectroscopy"
Tuesday April 22, 1986	Professor Dennis P. Curran Department of Chemistry University of Pittsburgh Pittsburgh, Pennsylvania	"New Applications of Free Radical Reactions in Organic Synthesis"
Tuesday April 29, 1986	Professor Robert G. Parr Department of Chemistry University of North Carolina Venable and Kenan Laboratories Chapel Hill, North Carolina	"Density Functional Theory and the Concepts of Chemistry"

## SHORT COURSE ON COLLOID CHEMISTRY APPLIED TO INDUSTRIAL R&D

This four-day intensive course treats general properties of dispersions, emulsions and foams and is designed for chemists and chemical engineers who are engaged in industrial research and development.

**May 5 - May 8, 1986**

**LECTURERS:**

**Professor Frederick M. Fowkes** Lehigh University  
**Dr Ian D. Morrison** Xerox Corporation  
**Professor Sydney Ross** Rensselaer Polytechnic Institute

**LOCATION:** Xerox International Center for Training and Management Development, Leesburg, Virginia

**COURSE FEE:** \$925 includes registration, lecture notes, room for 4 days, 3 meals per day, and coffee breaks.

**REGISTRATION & INQUIRIES:** Dawne M. Kressler, Building 6, Lehigh University, Bethlehem, PA, 18015 (215) 861-3473

MARYLAND SECTION STUDENT AWARDS

Don Hoster, Chairman of the Student Awards Committee, takes pleasure in announcing the nominees for the ACS Maryland Section student awards for 1986. Winners were selected by their respective institutions.

Nominees will be guests of the Section at the April 23 dinner meeting at The College of Notre Dame of Maryland where they will be recognized. In addition, each will receive a scroll and a one year subscription to *The Journal of Chemical Education*.

The awardees, grouped by two-year and four-year colleges, are:

Eric Crawford, Anne Arundel Community College  
Jeffery Glass, Catonsville Community College  
Mary Newberger, Community College of Baltimore  
Rebecca G. Bloyer, Essex Community College  
Diane Cowger, Frederick Community College  
Barbara Jean Manns, Harford Community College  
Robert G. Crittenden, Howard Community College  
Tracy Rymer, The Villa Julie College

Carol Mertz, The College of Notre Dame of Maryland  
Francine Mcleod, Coppin State College  
Rebecca L. Hart, Goucher College  
Dennis Leatherman, Hood College  
Ellen M. Shulman, The Johns Hopkins University  
M. Susan Gegorek, Loyola College  
Donald Brunson, Morgan State University  
Stephen S. Roth, United States Naval Academy  
Sherry Lynn Watkins, Towson State University  
Sharen Marie Bridge, University of Maryland, Baltimore County  
Tommy Moore, Washington College  
Elise D. Benck, Western Maryland College

ACS BREAKS GROUND

On January 30, 1986 four ACS officials, headed by president George C. Pimental, wielded shovels in a groundbreaking ceremony for the Society's new office building being constructed adjacent to the existing building at the corner of 16th and M Streets.

The new building, joining the present one at the first floor, will be twelve stories tall and will contain about 68,000 square feet of office space. ACS initially will occupy the 1st, 11th and 12th floors and lease the remaining space to professional organizations.

DISTINGUISHED SERVICE AWARD

In our February announcement of the presentation of the Maryland Section's Distinguished Service Award to Alvin Bober, we noted that Al joined four former winners of the award. In reality, there are now six winners of the award. Our apologies to Tim Parr, whose name was inadvertently omitted.

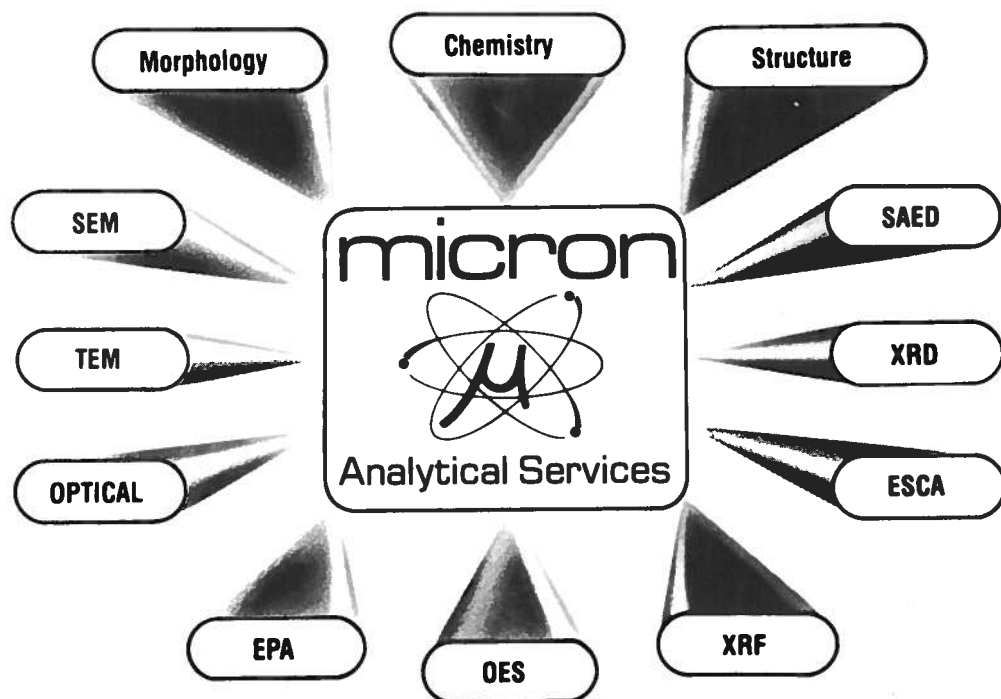
POLYMER INSTITUTE

The State University of New York at New Paltz will sponsor a 1986 Summer Institute in Polymer Science from May 5 - 16, 1986. The Institute will comprise four three-day courses on crosslinked polymers, stabilization and degradation of polymers, polymer blends and alloys, and High temperature polymers.

0117980X 065A 301 86 K  
DR YALE HOWARD CAPLAN  
3411 PHILIPS DR  
PIKESVILLE MD 21208

Nonprofit Org.  
U. S. Postage  
PAID  
Baltimore, Md.  
Permit No. 2917

PLEASE DO NOT DELAY — DATED NOTICE INSIDE



3815 Lancaster Pike Wilmington, Delaware 19805  
(302) 998-1184

## MICROANALYSES

Analysis for all elements  
Trace analyses and molecular weights

**GALBRAITH LABORATORIES, INC.**

P.O. Box 4187 • Knoxville, TN 37921  
(615) 546-1335