



THE

CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XLIII

DECEMBER, 1987

NUMBER 10



THE MARYLAND CHEMIST OF THE YEAR

ENVIRONMENTAL PROTECTION JOBS

The Environmental Protection Agency, in a joint project with D.C. Government, has a number of openings (up to GS-7) for microbiologists and analytical chemists. The positions are with D.C. Government, assigned to EPA at its Central Regional Laboratory in Annapolis.

The term of employment is two years with a one year renewal option. At the end of that time D.C. hopes to have its own environmental lab operational, and there will be the possibility of permanent employment for incumbents.

Interested persons should contact Orterio Villa or Jim Barron (Acting Chief) at 839 Bestgate Road, Annapolis, MD 21401; telephone (301) 266-9180.

TWENTY-SECOND MARM

The 22nd Middle Atlantic Regional Meeting will be held in Millersville, Pennsylvania May 24-26, 1988. The meeting will include a large number of symposia as well as general sessions.

Abstracts of papers, on ACS forms, should be submitted to the Program Chairs by February 1, 1988. Program Co-chairs are Dr. Lindy Harrison and Dr. Keith Peterman of the Physical Sciences Department, York College of Pennsylvania, York, PA 17403-3426.

DIAMOND JUBILEE

Planning has begun for the Diamond Jubilee of the Maryland Section. The celebration is scheduled for early fall of 1989. Be reminded that Archivist Ernie Silversmith has requested articles and artifacts of relevance to this anniversary. Ernie is also looking for some back numbers of this publication. At last look March of 1981 and April, September and October of 1978 were still missing.

THE JOHNS HOPKINS UNIVERSITY

CHEMISTRY DEPARTMENT COLLOQUIUM SCHEDULE

Colloquia are held at 4:15 pm (unless otherwise noted) in Remsen Hall Room 221 on the Homewood Campus of The Johns Hopkins University. For information call Mrs. H. J. Potter at (301) 338-7421.

| DAY AND DATE | SPEAKER AND AFFILIATION | TOPIC |
|------------------------------|--|--|
| Tuesday December 1, 1987 | John H. Dawson University of South Carolina | The Activation of Molecular Oxygen by Cytochrome P-450 and Related Enzymes |
| Tuesday December 8, 1987 | James M. Farrar University of Rochester | Gas Phase Ion Chemistry: Collisions and Clusters |
| Tuesday December 15, 1987 | Marsha Lester University of Pennsylvania | Photofragmentation Dynamics of IC1-Rare Gas van der Waals Complexes |



THE CHESAPEAKE CHEMIST

VOL. XLIII

DECEMBER, 1987

NUMBER 10

THE CHESAPEAKE CHEMIST STAFF

Raymond C. Petersen.....Editor
9329 Joey Drive
Ellicott City, MD 21043
465-8520

Alan Harmon.....Business Manager
McCormick & Co., Inc.
Hunt Valley, MD 21031
771-7480

SECTION OFFICERS

Alvin Bober.....Chairman
8430 Allenswood Road
Randallstown, MD 21133
655-5254

William E. White.....Chairman-elect
Physics Division, CRDEC
APG, Aberdeen, MD 21010-5423
671-2670

Maria Kristine Kirk.....Secretary
4000 Mayberry Avenue
Baltimore, MD 21206
532-5712

Joseph J. DeFrank.....Treasurer
Biotechnology Div., CRDC
APG, Aberdeen, MD 21010
671-3972

COUNCILORS

Donald Jones.....Western Maryland College
848-7000 ext 493 or 876-2055

David Roswell.....Loyola College
323-1010 ext 235

Charles Rowell....U. S. Naval Academy
267-2808

Merle I. Eiss....McCormick & Co., Inc
771-7485

ALTERNATE COUNCILORS

Robert L. Caret
Tim McNeese

Alvin Bober
Mike Zapf

COMMITTEE CHAIRPERSONS

Remsen Award.....Timothy J. McNeese
Loyola College
323-1010 ext 237

Maryland Chemist Award..James W. King
Chemical R & D Center, EA
APG, MD 21010
671-3482

Maryland Service Award...Donald Jones

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

Women Chemist.....Lena Ohannesian
698-1604

Chemical Education and Safety.....
435-0100 Stephen Gregory

Archives.....Ernest Silversmith

House.....John Corliss
Henry Freimuth

Member Assistance.....Merle Eiss
McCormick & Co., Inc.
771-7485

Public Relations.....Rene J. Muller
366-0640

Membership.....Ted Stockus
Analyte Laboratories, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
747-3844

Publicity.....Donald Jones
Western Maryland College

Finance.....Harold Klapper
653-3351

MEMBERS-AT-LARGE

Donald Hoster Dale L. Whalen
Hope L. Bober Jeanette S. Hamilton
James W. King

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.

THE MARYLAND CHEMIST AWARD

Gary Posner studied at the Bronx High School of Science in New York City, at Brandeis University (B.A. 1965), at Harvard University with Professor E. J. Corey (Ph.D., 1968), and at Berkeley with Professor William G. Dauben (postdoctoral). His affiliation with the Chemistry Department at The Johns Hopkins University started in 1969; he was promoted to full professor in 1979 and to Chairman of the Chemistry Department in 1987. He was a Senior Fulbright Lecturer at the University of Paris, France, in 1976 and the Erna and Jacob Michael Visiting Professor at the Weizman Institute of Science in Israel in 1983. Professor Posner has been an invited plenary lecturer at many international meetings including a Nobel Symposium held near Stockholm, Sweden, on "Asymmetric Organic Synthesis." In 1987, he presented the Abbott Laboratories Lecture at Berkeley, and he organized the Scientific Program for the Fourth IUPAC Symposium on "Organometallic Chemistry Directed Toward Organic Synthesis" held in Vancouver, British Columbia, with 450 active participants from all parts of the world. He has published over 115 scientific papers, including 8 invited review articles and a book on organo-copper chemistry, and he is a member of the editorial board of *Organic Reactions* and of the NIH Medicinal Chemistry Study Section. He is also a consultant for the Nova Pharmaceutical Corporation in Baltimore. His research interests include organocopper chemistry, organic reactions promoted by porous solids (e.g. alumina), asymmetric synthesis of physiologically active compounds, multicomponent annulation methodology, Diels-Alder cyclo-additions, and molecular mechanisms of environmental carcinogenesis (he holds a joint appointment as Professor of Environmental Chemistry in the Hopkins School of Hygiene and Public Health). Professor Posner is especially proud of the teaching he has done at Hopkins, for which he has received repeated recognition from the undergraduate students taking introductory organic chemistry, of the fine group of research students he has worked with at Hopkins, and of the plans for expanding the Hopkins chemistry department during his chairmanship.

ADVANCES IN SYNTHETIC ORGANIC CHEMISTRY

Selected recent developments in the Posner research group at Hopkins will serve to illustrate some of the ways in which modern organic synthesis can be advanced. Emphasis will be on simple chemical reactions and on rapid and efficient construction of cyclic compounds by linking together several different reactants sequentially in one reaction vessel.

When did YOU last attend a Maryland Section meeting?

MARYLAND WOMEN CHEMIST'S COMMITTEE

This past summer a Maryland Women Chemist's Committee was formed as part of the Maryland Section of the ACS. At present we are recruiting members and exploring how best to help Maryland chemists, particularly women. The planned activities which we would like to undertake are 1) to compile a list of potential summer students for employers with summer intern programs, 2) to establish a curriculum vitae file of potential candidates for prospective employers and 3) to set up a speakers' bureau of persons willing to talk about chemistry and careers to students. If you would like to be a member of the Women Chemist's Committee, please send your name and address to:

Dr. Lena Ohannesian
500 Riggs Ct.
Frederick, MD 21701

DATE:

Wednesday, December 9, 1987

PLACE:

The Johns Hopkins University
Homewood Campus
Remsen Hall, Room 101
(Social hour and dinner in
the Glass Pavilion)

SPEAKER AND TOPIC:

THE MARYLAND CHEMIST AWARD
ADDRESS
8:15 pm
Dr. Gary H. Posner
The Johns Hopkins University
'Advances in Synthetic Organic
Chemistry'

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

COCKTAILS AND DINNER:

Social Hour 6:00 pm
(Sponsored by Perkin-Elmer)
Dinner 7:00 pm

Dinner price \$14.00 per person, but spouses, retired chemists and students may attend for \$12.00; hot buffet with baked stuffed flounder and beef burgundy.

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

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

by December 3. Late reservations may be made by calling:

John Corliss at (301) 235-6612
Nolan Phillips at (301) 939-3500
Douglas Dudis at (301) 267-3302.

OCTOBER SPEAKER

The previously unidentified early speaker at the October meeting was Roy W. Rice of W. R. Grace who lectured on "Chemistry and Application of Ceramics".

FUTURE MEETINGS

| DATE AND LOCATION | SPEAKER AND AFFILIATION | SUBJECT |
|---|---|--------------------------------------|
| February 3, 1988 College of Notre Dame | Dr. Rita R. Colwell University of Maryland | Developments in Marine Biotechnology |
| | Early speaker not yet identified | |
| March 16, 1988 Linthicum | Not yet identified | Maritime Institute of Technology |
| April College of Notre Dame | Dr. Alan McClellan E. I. DuPont | Chemical Careers in Industry |
| May Johns Hopkins | Remsen Award | |

MARYLAND CHEMIST AWARD

The Maryland Chemist Award was established in 1962 to recognize and to honor, each year, a member of the Maryland Section for outstanding achievement in the field of chemistry. The achievement may be in pure or applied chemistry, chemical engineering or chemical education. Last year's recipient was Dr. David F. Roswell.

Previous recipients have been:

| | | | |
|------|-------------------------|------|-------------------------|
| 1962 | Dr. E. Emmet Reid | 1974 | Dr. Joyce J. Kaufman |
| 1963 | Dr. W. Mansfield Clark | 1975 | Dr. Benjamin Witten |
| 1964 | Dr. Alsoph H. Corwin | 1976 | Dr. Richard L. Hall |
| 1965 | Dr. John C. Krantz, Jr. | 1977 | Dr. Henry C. Freimuth |
| 1966 | Dr. Belle O. Talbot | 1978 | Dr. Gunther L. Eichhorn |
| 1967 | Dr. Walter S. Koski | 1979 | Dr. Emil H. White |
| 1968 | Dr. George L. Braude | 1980 | Dr. M. Gali Sanchez |
| 1969 | Dr. Leslie Hellerman | 1981 | Dr. Paul O. P. Ts'o |
| 1970 | Dr. Paul H. Emmett | 1982 | Dr. Joseph L. Katz |
| 1971 | Dr. Giles B. Cooke | 1983 | Dr. Shih-Yi Wang |
| 1972 | Dr. Arnold M. Seligman | 1984 | Dr. Nicolas Zenker |
| 1973 | Dr. Lester P. Kuhn | 1985 | Dr. John Lambooy |

GRANT SOURCES AVAILABLE AT ACS

Are you looking for federal funding to explore a research idea? Do you need to know who funds research in your area of interest? ACS can help. The Department of Government Relations and Science Policy maintains an experimental electronic bulletin board guide to grants and contracts in the chemical sciences and engineering, for access by ACS members.

The bulletin board is called ChemREFS(TM), which stands for Chemical Research and Education Funding Sources. All you need to access ChemREFS(TM) is a computer, modem, and telephone -- and best of all, access is free. You only pay for long distance charges you may incur.

Once online, you'll find over 250 files describing chemical research and education programs at a variety of federal agencies, each with its own directory. Among those represented are: Department of Agriculture, Environmental Protection Agency, National Institutes of Health, and National Science Foundation.

Area-specific and targeted programs, such as instrumentation funding, young investigator programs, and women and minority programs, are described in their own directories.

Two special features of ChemREFS are News and New Programs. The News category carries bi-weekly coverage of science policy issues, the federal budget, and changes in grant and contract procedures or guidelines. The New Programs area highlights the newest federal programs and selected RFP's with short submission deadlines.

All files can be downloaded to the user's system. Users can contact the ACS System Operator by electronic mail or by telephone. ACS members interested in obtaining a user manual should contact Ms. Mary L. Tichava, Office of Science Policy Analysis, Government Relations and Science Policy, American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036, (202) 872-4384.

Meet
the
Pittsburgh Conference

in
New Orleans!



The Pittsburgh Conference
12 Federal Drive Suite 322
Pittsburgh, PA 15235
Phone: 412-795-7110

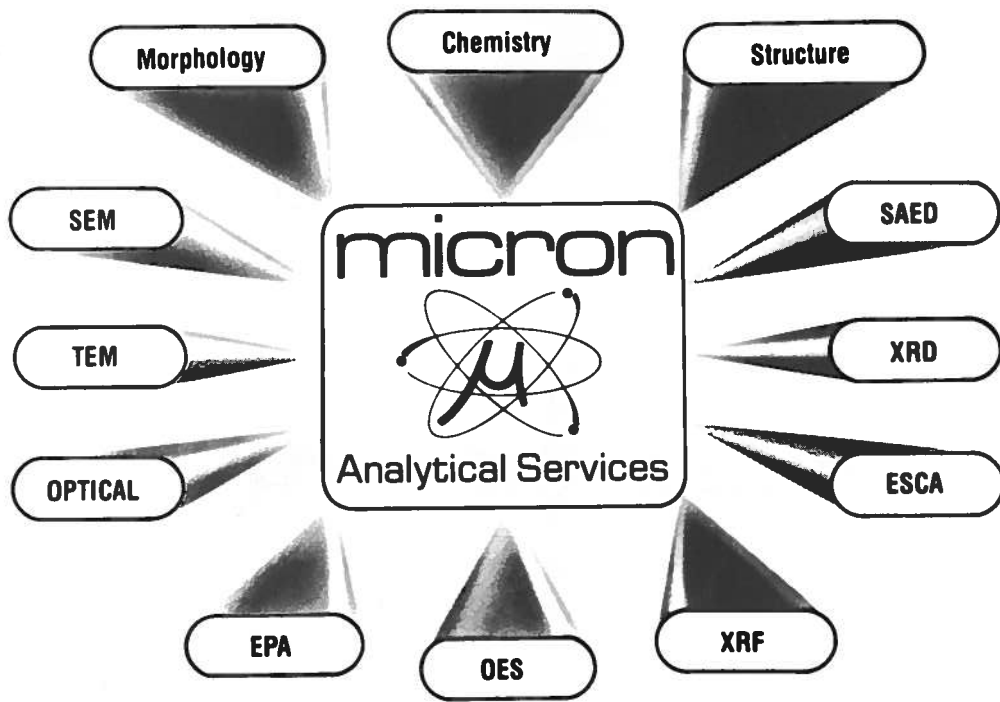
ACS SCIENCE POLICY SABBATICAL

The ACS announces a new Science Policy Sabbatical to begin in the fall of 1988. The sabbatical provides an opportunity for a scientist, as member of the ACS staff, to interact with science policy decision makers in Washington and to gain knowledge about the federal R & D process. Applications are due by March 1: contact Mary L. Tichava, Department of Government Relations and Science Policy, American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036; telephone (202) 872-4384.

0117980X 11/87 ZD 301 1
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,
ICP Scans, TOX, Ion Chromatography,
Molecular Weights.

GALBRAITH LABORATORIES, INC.

SINCE 1950

P.O. BOX 51610 2323 SYCAMORE DR.
KNOXVILLE, TN 37950-1610 KNOXVILLE, TN 37921-1750

(615) 546-1335
