



# THE CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

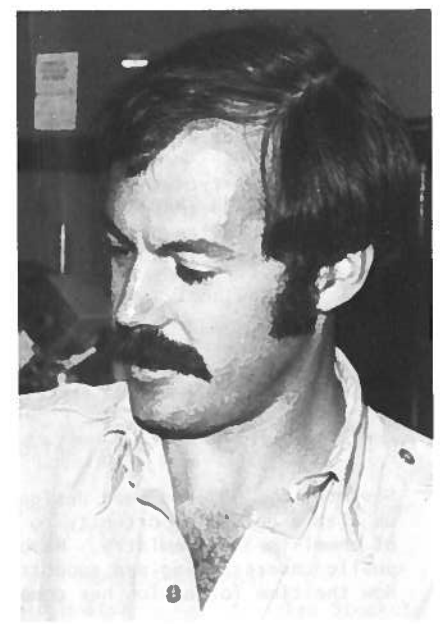
VOL. XLIII

MARCH, 1987

NUMBER 3



JOHN LEVER



GLENN PRESTWICH



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The Maryland Section is to be commended for its variety of programming, reflecting the diverse nature and needs of its membership. The increasing membership of the section is, no doubt, due to the choice membership of the 18 committees and reflects effective leadership. The section showed strong support of secondary and college science education by providing speakers, science fair judges, and career information. Noteworthy in this regard was the provision of funds for a teacher to attend a chemical education workshop.

In examining the section's annual report, the reviewer found several areas where the section might be able to increase membership involvement and act as a resource to surrounding communities. Increased community involvement and better public understanding could be attempted by sponsoring a symposium on safety or some local environmental issue. A membership survey to determine members' interests and needs could lead to new ideas and membership involvement. A formalized speakers bureau could serve to promote public recognition and understanding of chemistry. Finally, a long-range planning committee, a common factor in sections that receive performance recognition, could be established to ensure continuity and provide a forum for discussion of short- and long-term directions.

Again, the Maryland Section is to be congratulated on a good variety of successful activities and programs for 1985.

---narrative comments from the ACS Local Section Activities Committee review of the Maryland Section's 1985 report, submitted by Harold Klapper, Section Chairman for 1985.

Note from Harold Klapper:

I would like to thank the Executive Board, committee persons and members for making 1985 an excellent year for the Maryland Section. I know that 1986 and 1987 will be even better years for the Section.

As you can see from the above critique there are areas which need improvement. In order to make these improvements happen we need the involvement of more members. We invite our members to attend the Executive Board meetings and to become active in our Section.

Sincerely,

*Harold Klapper*

## NATIONAL CHEMISTRY DAY

November 6, 1987 has been designated National Chemistry Day. This presents us with a golden opportunity to focus public attention on the contributions of chemists and chemistry. Members have long recognized the need to promote public understanding and support for chemistry as the "central science." Now the time for action has come.

An advisory board of ACS members has been set up to lead the way and to guide the project. The ACS staff, under Randy Wedin, Special Assistant to the Executive Director, is providing materials, advice and support in planning and organizing this national event.

It is expected that local sections, some of which observed a Chemistry Day in 1986, will be the focal points of National Chemistry Day activities and that many individual ACS members will be participants.

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GLENN D. PRESTWICH

Glenn D. Prestwich is a professor at the State University of New York at Stonybrook. He received a B.S. in 1970 from the California Institute of Technology and a Ph.D. in 1974 from Stanford University. He held post-doctoral fellowships at Cornell University and at the International Centre of Insect Physiology and Ecology in Nairobi, Kenya. He was a fellow of the Alfred P. Sloan Foundation (1981-85) and was a Camille and Henry Dreyfus Teacher-Scholar (1981-86).

#### CHEMISTRY OF INSECT PHEROMONE AND HORMONE RECEPTION

Although the structures of many compounds involved in insect communication and development have been known for several decades, the biochemical modes of action of these chemical messengers is still unknown. We have prepared high specific activity tritium- and iodine-labeled pheromone and juvenile hormone analogs in order to examine the binding and catabolism of these ligands in vitro. Design and synthesis of specific olfactory and hormonal disruptants, the characterization of JH receptors, and the biochemical components of the pheromone reception system will be discussed.

#### 21ST GREAT LAKES REGIONAL MEETING

The 21st Great Lakes Regional Meeting will be held in Chicago (Loyola University of Chicago and Mundelein College) on June 10-12, 1987. The meeting will feature a plenary lecture by ACS President Mary Good and will have a large number of symposia. An exhibit is also planned.

Further information can be obtained from Mr. Ron Sykstus, Chicago Section ACS, #1300, 59 E. Van Buren Street, Chicago, IL 60605; (312) 461-9595.

#### THE 21ST MARM

The 21st Middle Atlantic Regional Meeting will be held May 19-21 at Stockton State College, Pomona, NJ.

The meeting will feature about 20 symposia as well as general papers in most areas of chemistry.

The General Chairman is Dr. Shelby Broughton, Stockton State College, Pomona, NJ 08240.

#### PITTSBURGH CONFERENCE

The Pittsburgh Conference and Exposition on Analytical Chemistry and Applied Spectroscopy is scheduled on March 9-13. Future meetings are in line for New Orleans, Atlanta, New York and Chicago.

Advance registration for 1987 costs \$35 with lower rates for students and spouses and rate increases for on-site registration.

Registration Chairman is Dr. John Novak, 12 Federal Drive, Pittsburgh, PA 15235.

## MARCH MEETING

#### DATE:

Wednesday, March 11, 1987

#### PLACE:

Knott Science Center  
The College of Notre Dame  
of Maryland  
North Charles Street  
Baltimore

#### SPEAKERS AND TOPICS:

5:30 pm  
John Lever  
The Johns Hopkins University  
"Radiotracers for Imaging  
Neurotransmitter Receptors"

8:15 pm  
Glenn Prestwich  
SUNY at Stonybrook  
"Chemistry of Insect Pheromone  
and Hormone Reception"

#### COCKTAILS AND DINNER:

Doyle Building Dining Room  
Social Hour 6:30 pm  
Dinner 7:15 pm

Dinner price \$12.00 per person, but spouses, retired chemists and students may attend for \$10.00

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 March 2, 1987. Late reservations may be made by calling

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

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

#### JOHN R. LEVER

John R. Lever received a B.S. in Chemistry from the University of South Carolina in 1975. He then attended North Carolina State University and received his Ph.D. in Organic Chemistry under the direction of Professor Carl L. Bumgardner in 1981. From 1981 to 1983, he was a postdoctoral research fellow in the laboratories of Professor Gary H. Posner at The Johns Hopkins University. He then joined the faculty of The Johns Hopkins University where he holds appointments as Assistant Professor of Environmental Health Sciences in the School of Hygiene and Public Health and as Assistant Professor of Radiology in the School of Medicine. His current research interests include the application of radiotracer methodology to problems of biomedical interest and the development of diagnostic radiopharmaceuticals for nuclear medicine.

#### RADIOTRACERS FOR IMAGING NEUROTRANSMITTER RECEPTORS


Within the last four years, advances in radiochemistry have merged with advances in neuroscience, pharmacology, and nuclear medicine to allow non-invasive localization of neurotransmitter receptors in the living human brain. Visualization of neurotransmitter receptors yields information correlating human brain function and dysfunction with specific biochemical processes. These studies, in a sense, provide a "window to the mind." The design, synthesis and use of radioligands for imaging dopamine, serotonin, and opiate receptors by means of positron emission tomography (PET) or single photon emission computed tomography (SPECT) will be discussed. In addition, the criteria considered in bringing new diagnostic radiopharmaceuticals to clinical nuclear medicine trials will be addressed.

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Chemistry Colloquia

Colloquia are held at 4:15 pm in Remsen Hall room 221 on the Homewood Campus of The Johns Hopkins University. Refreshments are served before each colloquium at 4:00 pm. For more information contact Mrs. H.J. Potter, 338-7421.

Date	Speaker and Affiliation	Title
March 10	Terry A. Miller Ohio State University	To be announced
March 17	James M. Lisy University of Illinois	Vibrational Predissociation Spectroscopy of Molecular Clusters
March 31	To be announced	
April 7	T. Ross Kelly Boston College	To be announced
April 14	To be announced	

SUNY AT NEW PALTZ COURSES

The State University of New York at New Paltz has announced a series of courses to be given at Lake Mohonk Mountain House in New Paltz. The courses are:

- Polymers for Electronic Applications (April 29 - May 1)
- Crosslinked Polymers: Chemistry, Properties and Applications (May 4 - 6)
- High-temperature Polymers: Chemistry, Properties and Applications (May 6 - 8)
- Polymer Blends and Alloys: Phase Behavior, Characterization, Morphology, Alloying Technology (May 13 - 15)

For further information contact Dr. A.V. Patsis, Chemistry Department, SUNY, New Paltz, New York 12561; telephone (914) 257-2175.

MOSES PASSER RETIRES

Late in the summer of 1964, Moses Passer was chairman of the ACS Council Committee on Chemical Education. The position of ACS Educational Secretary was vacated and he was invited to serve in the position in an acting capacity for one year while a search was conducted for a candidate to fill the position. Now, twenty-two years later, Moses Passer is retiring from the position of ACS Educational Division Director.

He was replaced on January 1 by Sylvia Ware, a seven year veteran of the ACS Education Division, where she has most recently been head of Educational Services.

NOTE OF APPRECIATION

The ACS Maryland Section and its Executive Committee wish to express their thanks to Jack Snell and his companies, Microcomputer Business Services, Inc. and The Microcomputer Center, Inc., 7668 Belair Road, Baltimore, MD 21236, for their donation of a microcomputer to the Section. The microcomputer, a Morrow MD-2, CP/M, double disc-drive machine, will be used to facilitate the numerous secretarial chores necessary to the smooth operation of Section activities.

1988 HERMAN SKOLNIK AWARD

The ACS Division of Chemical Information is seeking nominations for the 1988 Herman Skolnik Award. The award, named for its first recipient, was established in 1976 to recognize outstanding contributions to and achievements in the theory and practice of chemical information science.

The award consists of a \$350 honorarium and a walnut plaque. The recipient is expected to give an address at the time of the presentation. The 1988 award symposium will take place at the Third Chemical Congress of North America (195th ACS National Meeting) in Toronto on June 8, 1988. In recent years the symposium has been organized by the recipient.

Nominations should describe, with an evaluation, the nominee's contributions to the field and should include supporting materials. Seconding letters are required. The deadline for nominations for the 1988 award is April 30, 1987.

Nominations should be sent to:

Chemical Information Division Award Committee  
Merle I. Eiss  
McCormick & Company, Inc.  
202 Wight Avenue  
Hunt Valley, MD 21031

FUTURE MEETINGS

Our annual student award meeting will be held April 22 at Hood College. The meeting will feature posters by some of the science fair award winners and employment oriented talks by Hope Bober and Erica Riley, two second generation members of the Maryland Section.

The Remsen Award meeting is scheduled for May 20 at The Johns Hopkins University.

Plans are being discussed for a possible June picnic Joint with the Chemical Society of Washington to be held at the ACS Belmont Conference Center in Elkridge.

ELECTION OF OFFICERS

Please complete the following ballot for the election of the 1987 officers, councilors and members-at-large of the Maryland Section, and mail it to Kris Kirk, 4000 Mayberry Avenue, Baltimore, MD 21206. Please sign the envelope, but not the ballot itself, so that membership can be verified.

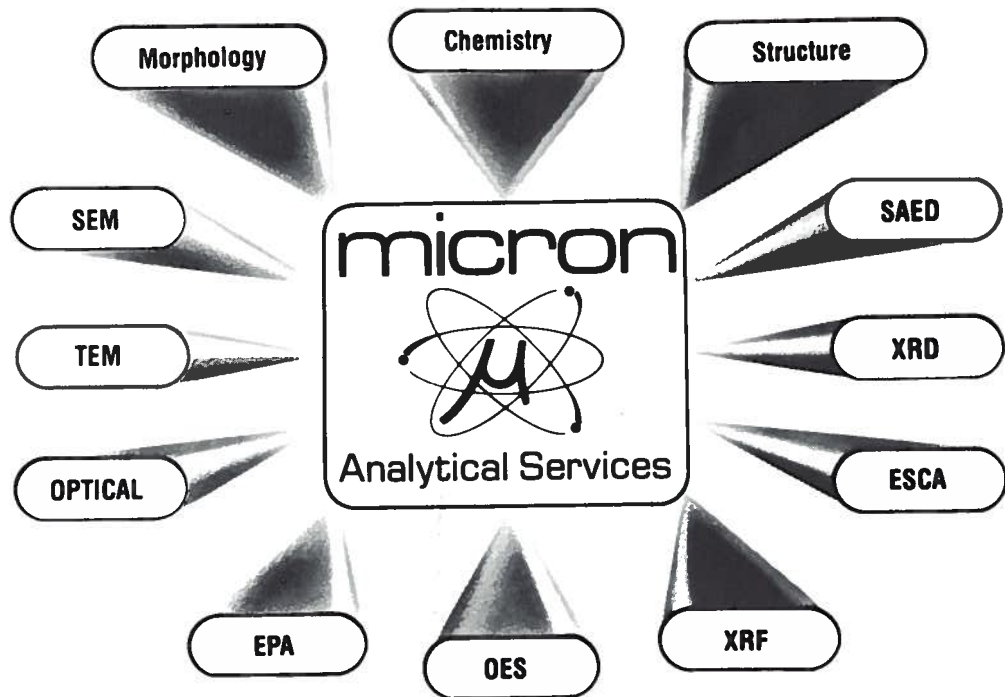
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Chairman-elect	Bill White	_____
Secretary	Kris Kirk	_____
Treasurer	Joseph DeFrank	_____
Councilor	Merle Eiss	_____
(vote for two)	Chuck Rowell	_____
Alternate Councilor	Mike Zapf	_____
Members-at-large	Jeanette S. Hamilton	_____
(vote for five)	Donald Hoster	_____
	Hope L. Bober	_____
	Dale L. Whalen	_____
	James W. King	_____

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