



THE

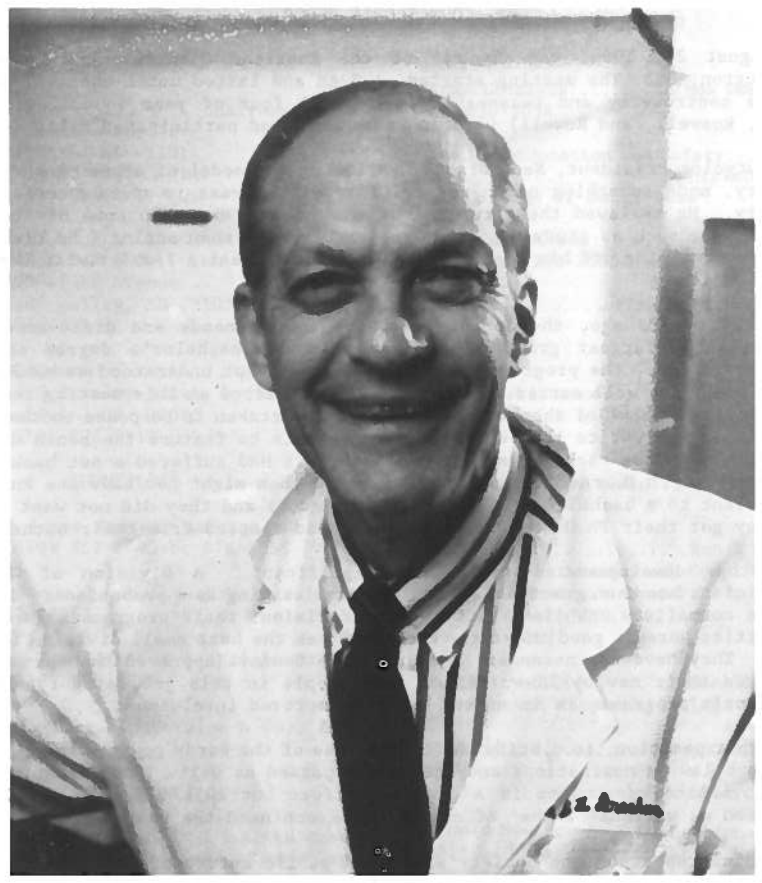
# CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. L

NOVEMBER, 1994

NUMBER 8



DANIEL B. DRACHMAN



ACS President Ned Heindel is shown congratulating Chuck Rowell on his receiving the Maryland Section's Service Award. The award was made at the MARM meeting in May. Chuck was chairman of the section in 1983 and has been a councilor since 1979.

#### COUNCILOR'S REPORT

On August 24, 1994, the Council of the American Chemical Society met in Washington, DC. The meeting started at 8 AM and lasted until about 11 AM with little controversy and reasonable pace. All four of your Councilors (Eiss, Jones, Roswell, and Rowell) were in attendance and participated fully.

The outgoing President, Ned Heindel, following the model of other prophets from history, made something of an unusual farewell address to the Council and the Society. He reviewed the strengths of the Society and then some of its major weaknesses, such as studying issues to death rather than acting. He closed the talk by stripping off his coat, tie and shirt to reveal a T-shirt with the words "Just Do It".

Over five years ago, the Society surveyed member needs and discovered that, although the largest group of members held the bachelor's degree as their terminal degree, the programs of the Society were not understood as making this group feel very well served. Two events that occurred at this meeting represent the results of some of the efforts that were undertaken in response to that need. A petition to rewrite the admission requirements to feature the bench mark for membership as the bachelor's degree passed. It had suffered a set back a year ago when the Ph.D. chemists felt that some of them might not have the knowledge equivalent to a bachelor's in chemistry (breadth) and they did not want to wait if they got their Ph.D. before three years had elapsed from their bachelor's.

The other development is much more significant. A Division of Chemical Technicians has been granted full status after serving as a probationary division in the normal way. While a probationary division, their programming and other activities were so good they were recognized as the best small division for last year. They have the necessary membership so Council approved the change, then approved their new by-laws. Since many people in this job category are from bachelor's programs, it is a good sign of improved involvement.

One other petition, to clarify the tangled use of the words nominee and candidate in the bylaw on nominations and elections, passed as well. Such cleaning up of our governance documents is a constant effort but this bylaw had really got confused as various "fixes" of new problems confused the usage.

A special report on the Society's work in public outreach, especially Kids in Chemistry, was well received in a meeting that had not worn down the patience of the Councilors.

Chuck Rowell



# THE CHESAPEAKE CHEMIST

VOL. L

NOVEMBER, 1994

NUMBER 8

#### THE CHESAPEAKE CHEMIST STAFF

Raymond C. Petersen.....Editor  
9329 Joey Drive  
Ellicott City, MD 21042  
465-8520

Bruce L. Solnick.....Business Manager  
P.O. Box 2355, Lab Adm.  
Baltimore, MD 21203  
225-6209

#### SECTION OFFICERS

Alice Zeiger.....Chairman  
Center for Indoor Air Research  
1099 Winterson Rd., Suite 280  
Linthicum, MD 21090  
684-3777

Shekar Munavalli.....Chairman-elect  
700 Paige Circle  
Bel Air, MD 21014  
(410) 838-7565 (H)  
(410) 671-2819 (W)

Mike Zapf.....Secretary  
McCormick & Co., Inc.  
202 Wight Avenue  
Hunt Valley, MD 21031  
771-7471

Jan Kolakowski.....Treasurer  
2610 Stanley Drive  
Baldwin, MD 21013  
(410) 836-6712

#### COUNCILORS

Donald Jones.....Western Maryland College  
(410) 857-2493 or 876-2055

David Roswell.....Loyola College  
617-2563

Charles Rowell.....U.S. Naval Academy  
(410) 293-2808

Merle I. Eiss.....McCormick & Co., Inc.  
771-7861

#### ALTERNATE COUNCILORS

Elwin Penski  
Linda Sweeting

Alvin Bober  
Mike Zapf

#### COMMITTEE CHAIRPERSONS

Remsen Award.....Timothy J. McNeese  
Loyola College  
617-2237

Maryland Chemist Award...Elwin Penski  
2515 Jerusalem Road  
Joppa, MD 21085  
671-3953 or 877-2923

Maryland Service Award.....Kris Kirk

Student Awards.....Stephen Gregory  
College of Notre Dame  
4701 North Charles St.  
Baltimore, MD 21210  
532-5714

Women Chemists.....Linda Sweeting  
830-3058

Chemical Education and Safety.....  
Shirish Shah  
College of Notre Dame

Public Relations.....Suzanne Hood  
(410) 222-8535

Archives.....Ernest Silversmith

House.....Stephen Gregory

Member Assistance.....Merle Eiss  
McCormick & Co., Inc.  
771-7861

W.R. Grace & Co. Award..William White  
671-3058

Membership.....Ron Erickson  
Nova Pharmaceutical Corp.  
6200 Freeport Center  
Baltimore, MD 21224  
563-6162

Publicity.....Donald Jones  
Western Maryland College

Finance.....Jan Kolakowski

#### MEMBERS-AT-LARGE

Donald Hoster  
Dale L. Whalen  
George Herold

Subhash Dhanesar  
Jackie Weitzel

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 Johns Hopkins University

## 1994 Fall Chemistry Colloquium Schedule

Remsen 233, Tuesdays, 4:15 p.m.  
For more information contact Rosalie Elder (410) 516-7432

October 28 Friday	Prof. William Tolman University of Minnesota	"Synthetic Approaches Toward Understanding Small Molecule Interactions with Metalloproteins: Binding and Activation of Dioxygen and Nitrogen Oxides by Copper Complexes"
November 8	Prof. Kristen Bowman-James University of Kansas	"Synthetic Macrocycles Recognition and Catalysis"
November 15	Prof. Patrick Vaccaro Yale University	"Holographic Probes of Molecular Structure and Dynamics"
November 22	To be announced	
November 29	To be announced	
December 6	To be announced	

### DANIEL B. DRACHMAN

Daniel B. Drachman, M.D., Director, Neuromuscular Unit and Professor of Neuroscience, School of Medicine, Johns Hopkins University, Baltimore, (Maryland) has had an outstanding academic background and professional experience. He holds a B.S. degree from Columbia University, New York (1952) and a M.D. degree from New York University College of Medicine, New York (1956). From 1957-1960, he received his professional training in neurology and neuropathology at the Harvard Neurology Unit, Boston City Hospital. He worked as Clinical and Research Associate, National Institutes of Health, Bethesda (Maryland) from 1960 to 1963. He worked as Assistant Professor of Neurology at Tufts University School of Medicine from 1963 to 1969. He then moved to Johns Hopkins University as Associate Professor of Neurology. He was promoted to full professorship in 1974 and later appointed as Professor of Neuroscience. Currently he wears a triple hat -- Professor of Neurology, Professor of Neuroscience and Director, Neuromuscular Unit, School of Medicine, Johns Hopkins University.

Among the numerous honors and distinctions he has received over the years, the following are noteworthy: The John F. Sullivan Professor of Tufts University, the Sackler Visiting Professor of Cornell University (1988) and the Hurst Brown Visiting Professor of the University of Toronto (1993). He was also invited to serve as the Carrell-Krusen Lecturer at the University of Texas (Dallas), the Kittredge Lecturer at Stanford University Medical Center, the Grass Lecturer at Toronto and the Sigma Xi Lecturer at Jefferson Medical College (Philadelphia). The Founders' Day Award of the New York University (1956), the Jacob Javits Award (1986) and the Myasthenia Gravis Foundation Award are among the many awards he has received. He has been extremely active and productive in research. He has directed the research work of over forty pre-doctoral and post-doctoral fellows. He is a prolific publisher; he has been associated with about two hundred research publications as an author and/or a co-author.

## NOVEMBER MEETING

### DATE & PLACE

Wednesday, November 16, 1994  
Officers' Club  
Aberdeen Area  
Aberdeen Proving Ground  
(NOT the Edgewood Area)

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

Dr. Shirish Shah  
College of Notre Dame  
4701 North Charles Street  
Baltimore, MD 21210

### SCHEDULE:

6:00 Social Hour  
(Cash Bar)

7:00 Dinner

8:30 Daniel B. Drachman  
Johns Hopkins University  
School of Medicine  
"Synapse, Health and  
Disease"

by November 9. Late reservations may be made by calling

(410) 532-5712

by November 11; answering machine available at this number.

Dinner price is \$18.00 per person, but spouses and retired chemists may attend for \$16.00; students may attend for \$9.00.

Dinner buffet: salad, roast beef, baked flounder, baked potato, vegetables, dessert, coffee/tea.

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

Directions: From I-95 north take Exit 85 (2 miles north of the Maryland House Restaurant). Follow signs for Aberdeen Proving Ground and Route 22 east (this will be a right turn off Exit 85, but not the immediate first right). Route 22 east leads directly to the APG gate (about 4 miles); past the post gate house, it becomes Harford Boulevard. At the third light after the gate house, turn right (a sign indicates Main Post to the right); this road is Maryland Boulevard. At the next traffic light make a left turn onto Aberdeen Boulevard; follow this for 1.6 miles to a fork in the road (fire house location). Take the left fork in front of the fire house. The road will pass the Civilian Personnel Building on the right and come to a small traffic circle. Turn left at the circle onto Plumb Point Loop East. The Officers' Club is 0.5 mile down the road. The Officers' Club has a parking lot in front of the building.

### FUTURE SPEAKERS

Dec. 14/21, 1994: Maryland Chemist Award

February 15, 1995: Dr. Thomas W. Cole, Jr., President, Atlanta University

Mar. 15, 1995: Dr. William Jensen, Professor of Chemistry, University of Cincinnati

Apr. 19, 1995: Dr. Lawrence Principe, Department of Chemistry, Johns Hopkins University, Baltimore, MD

May 17/24, 1995: Remsen Award Lecture

Sept. 13, 1995: Dr. E. Matijevic, Distinguished University Professor, Clarkson University, Potsdam, NY

## ACS CONGRESSIONAL FELLOWSHIP PROGRAM

The American Chemical Society's Congressional Fellowship Program places a person with a background in science and public policy in the office of a U.S. Senator, Representative, or congressional committee or subcommittee. During the year-long Fellowship, this person is responsible for providing the office in which he or she serves with a sound, objective scientific basis for policy decisions. The Fellow also increases ACS visibility on Capitol Hill, and provides the Society's membership with insights gained during the Fellowship.

ACS fully funds a stipend for the Fellow, but other sources of funding may be acceptable (e.g., the fellow's employer, private foundations, etc.). The 1995-96 stipend is \$43,700. The next Fellow to be selected will begin work in September of 1995.

Fellows are selected on a competitive basis from among members of the ACS who have significant familiarity with one of the chemical sciences or engineering (e.g., a doctorate or equivalent work experience); a working understanding of the chemical community; and experience in civic activities or public affairs. Past involvement in ACS activities also is taken into account. A candidate for the Fellowship must submit a letter of intent and a resume to the ACS. In addition, two letters of recommendation are to be sent directly to the ACS by their authors.

The ACS Committee on Chemistry and Public Affairs (CCPA) Congressional Fellowship Subcommittee and the ACS Department of Government Relations and Science Policy maintain ongoing contact with the Fellow and congressional offices. The Fellow is required to report regularly to CCPA and meet with other Society groups as necessary to provide for an adequate flow of information. The American Association for the Advancement of Science's (AAAS) Congressional Science and Engineering Fellowship Program provides an orientation session for the Fellow.

The deadline for receipt of application materials for this Fellowship is January 1, 1995. For further information, contact Caroline Trupp at the ACS Department of Government Relations and Science Policy/1155 Sixteenth Street, NW/Washington, DC 20036, or phone her at 202/872-4467.

## WHAT'S HAPPENING IN CHEMISTRY?

The annual digest of chemistry-connected events, research and background, *What's Happening in Chemistry?*, is published. The digest's calendar summarizes some 55 events of potential interest during 1993, particularly to those with little or no science training.

Originally published to keep reporters advised on annual research having continuing potential, this year's edition features twenty-six detailed reports in its 84 pages. Award-winning science reporter Mike Woods has covered subjects ranging from the Michael Crichton science-supposition of cloning dinosaurs, to the actual first cloning of a disease-resistant gene and moving it from one crop to another.

Uses today find the publication in classrooms, libraries, marketing departments, and almost anywhere someone feels the need to know, *What's Happening in Chemistry?* What happened in 1993 ranges from chemists in medicine finding what may be the "suicide switch" that causes cells to die, to materials -- where chemists predicted, then made, a substance that may turn out to be harder than diamond.

Stories come from medicine, agriculture, space, energy, the environment, electronics, and the science itself. A couple of articles just cover the people in chemistry - 1993 Chemistry Nobelists Mullis and Smith and Robert Parry, winner of that year's Priestly Award.

Copies are available to anyone through ACS Product Sales, (800) ACS-5558 (extension "Product Sales"), at \$8.95. Ask for discounts in larger quantities.

## LOCAL SECTIONS TO PLAY KEY ROLE IN STATE AND LOCAL PROGRAM

The ACS Board of Directors has voted to reestablish the State and Local Government Affairs program (SLGA), beginning with this year. Far from sending orders down from Washington, the new Program intends to enhance existing Local Section activities and pinpoint new opportunities for involvement. It can maximize your efforts in working with state and local officials by coordinating your activities with those of other ACS members and providing you with information you may need to proceed, such as the names of your state legislators and their committee assignments. A public affairs kit will be available, as well as a newsletter covering state legislative developments relevant to science education reform.

Science education at the elementary and secondary school level has been chosen as the initial focus of the SLGA program because of its importance in training future scientists and providing non-scientists with the technical background they will need to survive the new global economy. Education also shapes the views of future policymakers and citizens toward the sciences and those who practice them. While the American Chemical Society is already involved at the federal level in affecting education policy, most of the reform activity is at the state and local level. Additionally, most federal funds are channeled through state and local education agencies.

At the direction of the Society Committee on Education (SOCED), SLGA's will explore ways to enhance teacher training and qualifications, accountability for federal funds, and programs to attract and retain underrepresented groups in the sciences. Fifteen states have been selected for special emphasis and the setting up of member networks to maximize interactions with legislators. These states are California, Colorado, Delaware, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Texas, Washington, and Wisconsin. Assistance in interacting with government officials will further be available upon request to ACS members in all fifty states, on any issue of relevance to the membership.

In addition to the policy direction for the Program that will be provided by SOCED, an advisory board has been assembled to provide strategic advice. The board is composed of a member of the ACS Board of Directors, a member of SOCED, a member of the ACS Committee on Chemistry and Public Affairs, a high school chemistry teacher, and a state legislator who also is a chemistry professor. As a Local Section member, your input will be valuable in letting other ACS members know through SLGA where and how they can join you in shaping public policy.

If you would like to be added to the mailing list for this new Program, send your name, address, phone (fax number and internet address if available) and Local Section affiliation to: Ms. Kara Cianci/ACS State & Local Government Affairs/1155 Sixteenth Street NW/Washington, DC 20036, fax to her at 202/872-6206, or email to her at kac93@acs.org via the Internet. You may reach her by phone at 202/872-4391. If you're already involved in tracking or interaction with state or local government decisionmakers, please let us know.

As part of the Society's one-hundred and fifty thousand members in the one-hundred and eighty-six Local Sections across the country, you have expertise and perspectives that government officials want and need to hear. The SLGA staff looks forward to working with you -- and putting you in touch with a few of these many government officials who were elected to represent your interests.

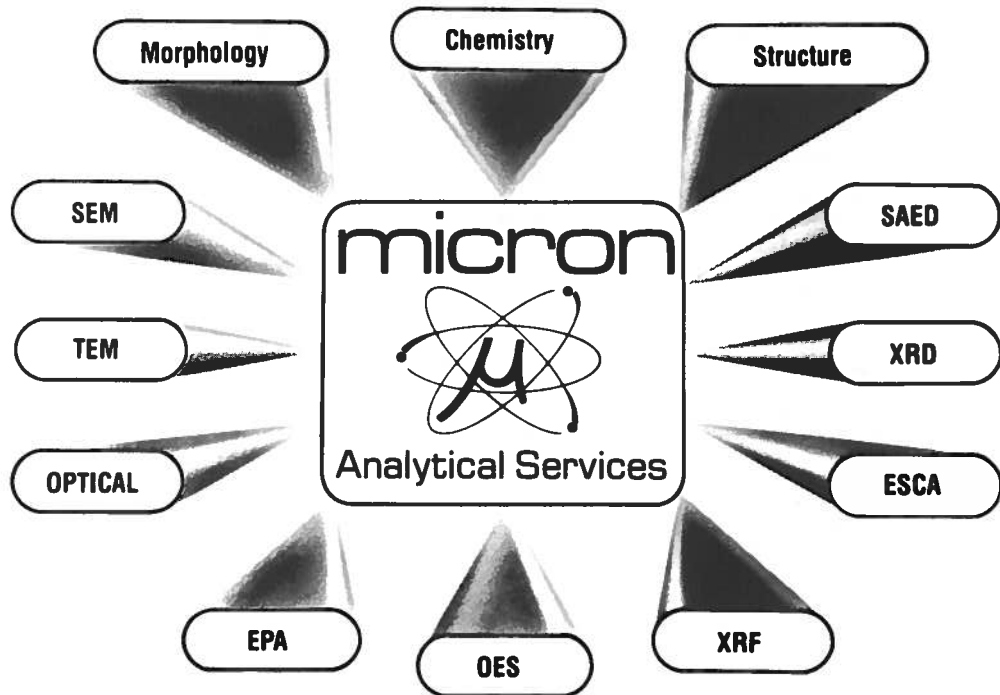
## CHANGE OF ADDRESS

It is not necessary to notify *The Chesapeake Chemist* of address changes. We get our mailing labels from the ACS each month, so if you inform the ACS of your address change, we will automatically receive the correct label.

0117980X 09/94 ZM 301 1  
DR YALE HOWARD CAPLAN  
3411 PHILIPS DR  
PIKESVILLE MD 21208-1827

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

*Accuracy with speed*

### ***Complete Microanalysis Services***

Analysis for all elements • Trace analyses • Environmental Analyses • GLP • GMP

## **GALBRAITH LABORATORIES, INC.**



Since  
1950

Tel: (615) 546-1335 • Fax: (615) 546-7209

P.O. Box 51610 2323 Sycamore Drive  
Knoxville, TN 37950-1610 Knoxville, TN 37921-1750

*Call or write for our information packet.*