



THE

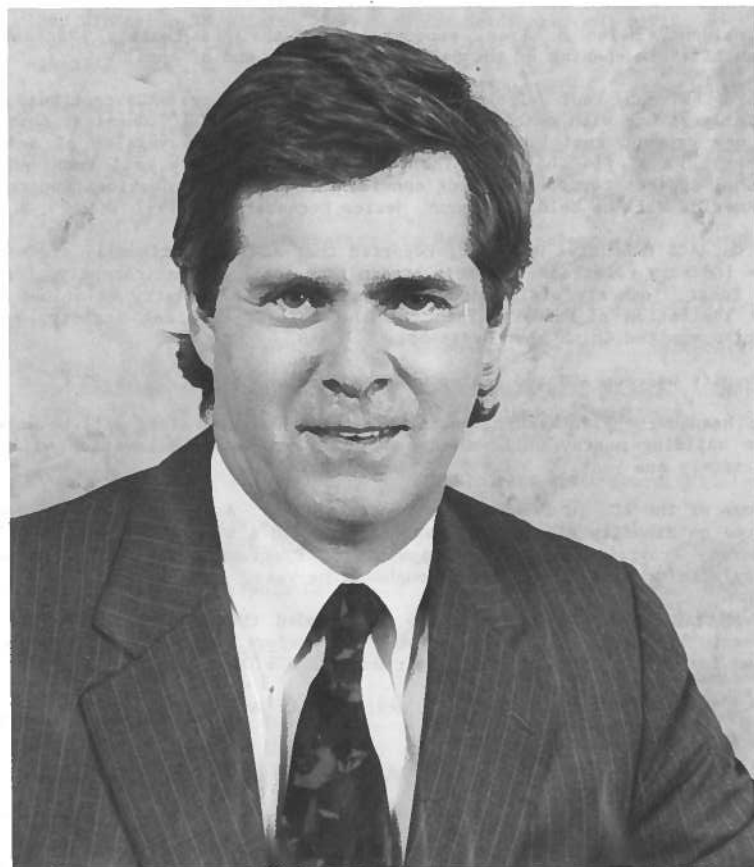
CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. I

SEPTEMBER, 1994

NUMBER 6



RICHARD L. DOTY

COUNCIL MINUTES
AMERICAN CHEMICAL SOCIETY NATIONAL MEETING
SAN DIEGO, CA - MARCH 16, 1994

The Council Meeting began at 8:00 a.m. with all four Maryland Section Councilors present. Over 14,800 people attended the National meeting.

The Committee on Nominations and Elections selected four proposed nominees for the position of 1995 ACS President-Elect. The Council voted to select the following to run for election:

Allen J. Bard - University of Texas
Ronald Breslow - Columbia University

The Committee on Nominations and Elections presented to the Council the four nominees running for Directors-at-Large:

C. Marvin Lang
Gordon L. Nelson
Joan E. Shields
Henry F. Whalen

Election of Directors-at-Large will be conducted by mail ballot of the Council in October.

Past-President, Helen M. Free, announced that the ACS Exhibit, "Science in American Life" is opening at the Smithsonian at the end of April.

ACS Board Chairman, Paul Walter, reported on the following: ACS continues to be financially strong with membership growing to over 149,000. Chemical Abstracts has a new product entitled CASurveyer. It is a CD-ROM version of selected abstracts on a single subject. The product has been very well received, and additional subject topics are being considered. The Fifth Chemical Congress of North America will be held in Cancun, Mexico December 1-4, 1997.

John Crum, ACS Executive Director, reported that ACS is continually striving to improve industry relations. To help attain that goal, ACS has recently hired Dr. Manuel Panar, formerly of Dupont, as Director of the Industry Relations Unit. At the invitation of the President of the Chinese Chemical Society, an ACS delegation visited China last September.

All lawsuits between ACS and Dialog were settled on October 29, 1993.

The ACS headquarters in Washington is being renovated and staff will be moved to another building nearby while the work is in process. Renovation will take approximately one year.

The focus of the ACS in 1994 will be on Minorities. A new Joint Board--Council Committee on Minority Affairs has been formed, and a Blue Ribbon Advisory Panel on Minority Programming has been appointed. Programming in various areas of minority affairs will take place throughout the year.

The Committee on Budget and Finance recommended that there will be no dues increase in 1995 and the Council so voted. Therefore, members will have no dues increase for 1995. ACS National dues remain at \$96.00.

Respectfully submitted,

Merle I. Eiss



THE CHESAPEAKE CHEMIST

VOL. L

SEPTEMBER, 1994

NUMBER 6

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
2915 Smithson Drive
Forest Hill, MD 21050
(410) 838-4537

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 computer is one of the great inventions of our time. There are still many mistakes being made as ever, but now they're nobody's fault.

-_The Roughneck

THE CHESAPEAKE CHEMIST

SEPTEMBER MEETING

Dr. Richard L. Doty received his Ph.D. from Michigan State University in 1971, where he studied Comparative and Physiological Psychology. He completed a postdoctoral fellowship at the University of California, Berkeley, in 1973 in the field of Behavioral Endocrinology. He subsequently accepted a position as Head of Human Research at the Monell Chemical Senses Center in Philadelphia. In 1980, he became the Director of the University of Pennsylvania Smell and Taste Center within the School of Medicine, where he is currently Associate Professor. Among his honors are an honorary Master's Degree from the University of Pennsylvania, the Psi Chi teaching award from the University of Colorado, and membership in Who's Who in Technology Today, Who's Who in the East, Who's Who among Human Service Professionals, and Who's Who in America. Dr. Doty has served as a consultant for many scientific and medical journals, as well as to the National Aeronautics and Space Administration, the National Science Foundation, the National Institutes of Health, and various private organizations. He has appeared on numerous television shows, including "Children's Television Workshop's 3-2-1 Contact" (USA), "Science Today" (Italy), "Real World" (England), "20-20" (USA), "Good Morning America" (USA), "The Health Show with Kathleen Sullivan" (USA), "NOVA" (USA), and "The Nature of Things" (Canada). He has designed museum exhibits on olfaction and taste for the Natural History Museum in San Antonio, Texas, and for a traveling series sponsored by the National Council on Aging and the Smith Kline Beckman Corporation. He has contributed over 170 papers to scientific and medical journals, and is co-editor of six books, including the 889 page Chemical Senses in Health and Disease, which he co-edited with Professors T.V. Getchell, L.M. Bartoshuk, and J.B. Snow, Jr. in 1991 (Raven Press). Among his hobbies are tennis and formula race car driving. In the latter capacity, he drove three different race cars at the SCCA National Championships in Atlanta last October. Dr. Doty is single and resides in Haddon Heights, New Jersey, with several dead plants.

HUMAN OLFACTION IN HEALTH AND DISEASE

The human olfactory system is an exquisite sensing system, capable of detecting and discriminating among chemicals at concentrations below the detection limits of most analytical instruments (e.g., the gas chromatograph). Unfortunately, this system is relatively fragile, and can be influenced by a number of environmental and subject factors. Total or partial loss of smell function can significantly alter the quality of life and places individuals at risk to leaking natural gas, fire, and spoiled food. In a recent study of 750 consecutive patients presenting with chemosensory disturbance to the University of Pennsylvania Smell and Taste Center, 68% reported that their dysfunction significantly altered their quality of life. Forty-six percent indicated that the problem changed either their appetite or body weight, and 56% noted that it influenced their daily living and/or psychological well-being. Interestingly, over two-thirds of the group believed they suffered from taste loss, either alone or in combination with smell loss, even though objective testing revealed that less than 4% evidenced such loss. This reflects the fact that the flavor of food largely depends upon stimulation of the olfactory receptors via the retronasal route. Thus, such flavors as vanilla, chocolate, strawberry, pizza, banana, onion, chicken, steak, etc. disappear when the free flow of air from the nasopharynx to the olfactory epithelium is obstructed by a head cold, nasal sinus disease, or other obstructive conditions.

In this presentation, I will discuss the basic anatomy and physiology of the human olfactory system, and ways in which the sense of smell is currently measured. Information will be presented related to the influences of smoking, exposure to environmental chemicals, aging, and various diseases, including Alzheimer's disease and idiopathic Parkinson's disease, on the ability to smell. A discussion of elements of the theory that Alzheimer's disease and several other neurodegenerative disorders may be caused by the movement of airborne environmental toxins from the nasal cavity into the brain via the active transport mechanisms of the olfactory receptors will be made.

Supported by grant P01-DC-00161 from the National Institute on Deafness and Other Communication Disorders.

DATE:

Wednesday, September 21, 1994

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

PLACE:

The College of Notre Dame of Maryland
North Charles Street
Baltimore

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

by September 14. Late reservations may be made by calling

SCHEDULE:

6:00 Social Hour

(410) 532-5712

7:00 Dinner

by September 16. Answering machines are available at this number.

8:00 RICHARD L. DOTY
Smell and Taste Center
University of Pennsylvania
"Human Olfaction in Health and Disease"

Dinner price is \$16.00 per person, but but spouses and retired chemists may attend for \$14.00; students may attend for \$8.00.

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

NOMINATING COMMITTEE REPORT

The Nominating Committee presents the following slate of officers for the Maryland Section of the American Chemical Society for 1995:

Chairman-elect	Shirish Shah
Secretary	Mike Zapf
Treasurer	Jan Kolakowski
Alternate Councilors	Joseph DeFrank Linda Sweeting Joseph Topping
Members-at-Large	Harold D. Banks Catherine Fenselau Donald Hoster Asoka Katumuluwa Dale L. Whalen

Members of the committee were Shree Iyengar, Shekar Munavalli, and Alice Zeiger.

FUTURE SPEAKERS

Oct. 19, 1994: Dr. Frederick R. Seidell, US Army, MRICD, Aberdeen Proving Ground, MD

Nov. 15/16, 1994: Dr. Daniel B. Drachman, Director, Neuromuscular Division, Johns Hopkins University, Baltimore, MD

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



Congressman George E. Brown receives the plaque for the 1994 W.R. Grace and Company Award from committee chairman Bill White. The ceremony was held at UMBC on May 26 in conjunction with the Middle Atlantic Regional ACS Meeting.

ACS RELEASES 2ND EDITION OF *LESS IS BETTER*

Environmental awareness, regulatory requirements, and a desire to maintain good standing in their communities have contributed to increased efforts by laboratories to reduce their generation of chemical wastes. As the title of a recently released second edition of a booklet from the American Chemical Society Department of Government Relations and Science Policy suggests, laboratory efforts in reducing wastes may be rooted in the philosophy that "Less is Better."

The first edition of *Less is Better* quickly became a standard reference on lab waste minimization efforts. The second edition expands upon this success, also covering topics such as the regulatory implications of treating waste, increased use of computer systems, and the benefits of properly labeling laboratory chemical containers. The new version updates information on the economics of waste disposal, reflecting the significant increases implemented since the first version.

In an example of how "less is better," the booklet points out that, in light of disposal costs, a laboratory that purchases an "economy size" container can end up paying twice as much as it would have paid by purchasing two smaller containers. The booklet notes that in a laboratory where waste minimization practices have not been implemented, unused chemicals can constitute 40% or more of the waste stream.

The booklet was written by the American Chemical Society's Task Force on Laboratory Waste Management. The Task Force authored the first edition as well as the *Waste Management Manual for Laboratory Personnel*. As with most other booklets published by the American Chemical Society Department of Government Relations and Science Policy, single copies of the second edition of *Less is Better--Laboratory Chemical Management for Waste Reduction* are available without charge. Non-profit organizations may order ten free copies.

For a copy, write to the American Chemical Society/Department of Government Relations and Science Policy/1155 Sixteenth Street, NW/Washington, DC 20036, or call 202/872-8725.



Congressman George Brown of California delivering the W.R. Grace & Company Award speech at the University of Maryland Baltimore County.

1994 EAS

AWARDS FOR ACHIEVEMENTS

The Thirty-Third Annual Eastern Analytical Symposium will be held at the Garden State Convention and Exhibit Center in Somerset, New Jersey on November 13-18, 1994. The meeting, which is expected to attract more than 4500 scientists in analytical chemistry and the allied sciences, will include in excess of sixty technical sessions, short courses, exhibitor workshops, and an exposition of scientific equipment. An integral part of the Eastern Analytical Symposium is the EAS award presentations.

The recipient of the 1994 Eastern Analytical Symposium Award for Achievements in Near-Infrared Spectroscopy is Heinz W. Siesler of the University of Essen, Germany. Dr. Siesler will receive the award, which is sponsored by NIRSystems, Inc., in a symposium in his honor on Monday, November 14, 1994.

Lloyd R. Snyder is the recipient of the 1994 Eastern Analytical Symposium Award for Achievements in Separation Science. Dr. Snyder, of LC Resources, Inc., Orinda, California, will receive the award at a symposium held in his honor on Tuesday, November 15, 1994.

The 1994 Eastern Analytical Symposium Award for Achievements in Magnetic Resonance will be awarded to Costantino S. Yannoni. Dr. Yannoni, of the IBM Research Institute in Almaden, California, will receive the award at a symposium in his honor on Tuesday, November 15, 1994.

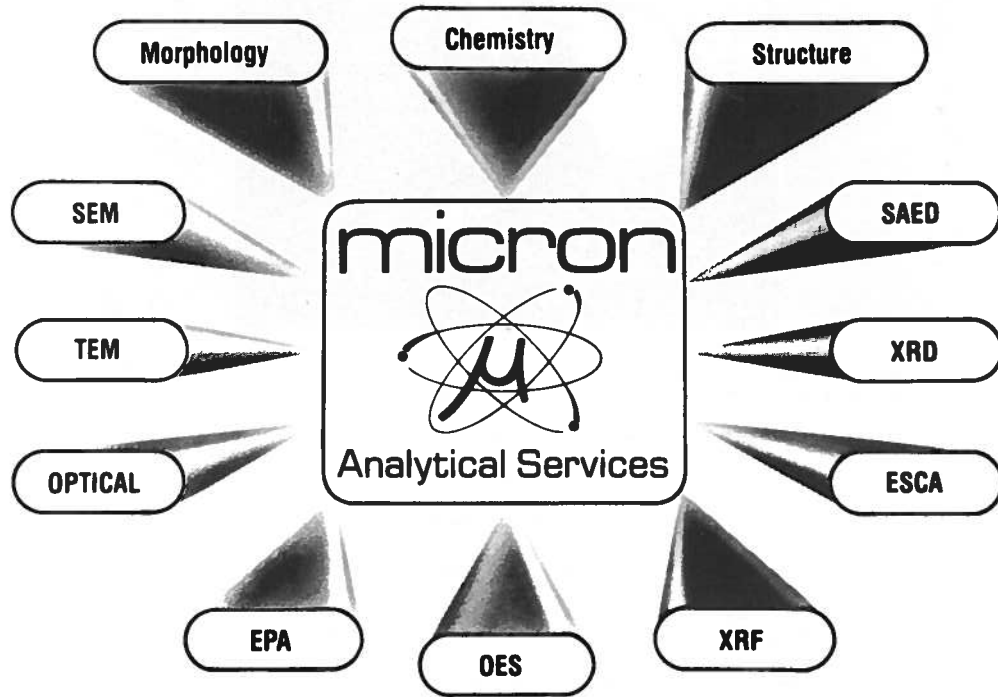
Henry Freiser of the University of Arizona is the recipient of the 1994 Eastern Analytical Symposium Award for Outstanding Achievements in the Fields of Analytical Chemistry. The symposium honoring Dr. Freiser will be held on Wednesday, November 16, 1994.

Additional information on the 1994 Eastern Analytical Symposium may be obtained by contacting the EAS Hotline by telephone at (302) 738-6218 or by Fax at (302) 738-5275.

011 7980X 094A 301 94 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.