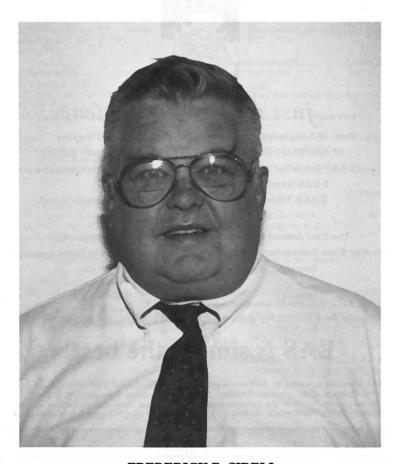


VOL. L

OCTOBER, 1994

NUMBER 7



FREDERICK R. SIDELL

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THE CHESAPEAKE CHEMIST

VOL. L **OCTOBER, 1994 NUMBER 7** COMMITTEE CHAIRPERSONS THE CHESAPEAKE CHEMIST STAFF Remsen Award.....Timothy J. McNeese Raymond C. Petersen.....Editor Loyola College 9329 Joey Drive 617-2237 Ellicott City, MD 21042 465-8520 Maryland Chemist Award... Elwin Penski Bruce L. Solnick....Business Manager 2515 Jerusalem Road P.O. Box 2355, Lab Adm. Joppa, MD 21085 671-3953 or 877-2923 Baltimore, MD 21203 225-6209 Maryland Service Award.....Kris Kirk SECTION OFFICERS Student Awards.....Stephen Gregory College of Notre Dame Center for Indoor Air Research 4701 North Charles St. Baltimore, MD 21210 1099 Winterson Rd., Suite 280 532-5714 Linthicum, MD 21090 684-3777 Women Chemists.....Linda Sweeting Shekar Munavalli......Chairman-elect 830-3058 700 Paige Circle Chemical Education and Safety..... Bel Air, MD 21014 (410) 838-7565 (H) Shirish Shah College of Notre Dame (410) 671-2819 (W) Public Relations......Suzanne Hood Mike Zapf.....Secretary (410) 222-8535 McCormick & Co., Inc. 202 Wight Avenue Archives..... Ernest Silversmith Hunt Valley, MD 21031 771-7471 House.....Stephen Gregory Jan Kolakowski......Treasurer 2610 Stanley Drive Member Assistance.....Merle Eiss Baldwin, MD 21013 McCormick & Co., Inc. 771-7861 (410) 836-6712 W.R. Grace & Co. Award. . William White COUNCILORS Donald Jones. Western Maryland College Membership......Ron Erickson (410) 857-2493 or 876-2055 Nova Pharmaceutical Corp. 6200 Freeport Center David Roswell.....Loyola College Baltimore, MD 21224 617-2563 563-6162 Charles Rowell.....U.S. Naval Academy Publicity......Donald Jones (410) 293-2808 Western Maryland College Merle I. Eiss...McCormick & Co., Inc. Finance.....Jan Kolakowski 771-7861 MEMBERS-AT-LARGE ALTERNATE COUNCILORS Donald Hoster Subhash Dhanesar

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.

Dale L. Whalen

George Herold

Jackie Weitzel

Alvin Bober

Mike Zapf

Elwin Penski

Linda Sweeting

FREDERICK R. SIDELL

Frederick R. Sidell, M.D., Senior Medical Officer and Chief, Chemical Casualty Care Office, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland has made hundreds of presentations on the management of chemical casualties. He is also the Director of Chemical Accident Rescue Team Program and the Medical Management of Chemical Casualty Course. He holds a B.S. degree, with a major in Chemistry, from Marietta College, Marietta, Ohio, (1956) and a M.D. degree from the New York University College of Medicine, New York (1960).

He has served as a Captain, MC, USAR from 1964 to 1966 and as the Chief, Clinical Investigation Section, Clinical Research Department, Medical Research Division, Edgewood Arsenal, Maryland. He is the recipient of several US Army Achievement Awards, the US National Guard Award (1990) and the Commander's Award for Civilian Service (1990). He is a prolific publisher and has authored and/or co-authored over seventy scientific publications and classified reports on the effects of chemical warfare agents and their toxicity in animals and humans, defense and therapy against nerve agent poisoning, toxins and their effects on the human blood, psychoactive drugs, what to do about chemical warfare agent attack or accident, etc. During the so-called "yellow rain" controversy, Dr. Sidell visited Southeast Asia as a member of the Surgeon General's Investigative Team to conduct on-site investigation of the alleged use of the toxins and other chemical agents.

He also reviews papers submitted for publication in the Journal of the American Medical Association and the Scientific American Medicine. As a part of the "Desert Shield" program in 1992 he conducted the chemical casualty awareness and management course both in the continental United States and Europe and briefed the US and Allied Forces military personnel on the dangers of exposure to warfare agents and how to treat those who were exposed to them.

Dr. Sidell is a member of the American Society of Pharmacology and Experimental Therapeutics and the American College of Clinical Pharmacology. He has been invited to address international meetings. He is one of the most knowledgeable persons on the effects and treatment of exposure to chemical warfare agents on the battlefield as well as in research laboratories.

When did YOU last attend a Maryland Section meeting?

ELECTION OF OFFICERS

Please complete the following ballot for the election of the 1995 officers, alternate councilors and members-at-large of the Executive Committee of the Section and mail it to Alice Zeiger, Center for Indoor Air Research, 1099 Winterson Road, Suite 280, Linthicum, MD 21090. Please sign the envelope, but not the ballot itself, so that membership can be verified.

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

OCTOBER MEETING

DATE:

Wednesday, October 19, 1994

PLACE:

W.R. Grace Research Center 7379 Route 32 Clarksville, Maryland

SCHEDULE:

6:30 Social Hour

7:30 Dinner

8:30 Frederick Sidell
MRICD, U.S. Army
Aberdeen Proving Ground
"Medical Aspects of
Chemical Warfare"

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

by October 12. Late reservations may be made by calling

(410) 532-5712

by October 14. Answering machine is available at this number.

Dinner price is \$17.00 per person, but spouses and retired chemists may attend for \$15.00; students may attend for \$8.50.

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

DIRECTIONS:

From I-95 take Route 32 west for about five miles (this takes you past Route 29). At second traffic light (flashing yellow after 6:00 pm) turn right into Grace driveway. After stopping at guardhouse, park in front of Building 1 (first building on right) or on far side of Building 25 (second building on right). Meeting will be in Building 1.

CHEMATHON

The 10th Chemathon was held at the University of Maryland at College Park. The Maryland Section provided judges for contests and subscriptions to the ACS high school student magazine, CheMatters, awarded to contest winners. High school teams from Maryland, Virginia and Washington, DC, participated in experiments, quizzes and T-shirt competitions in a spirit of fun.

BALTIMORE SCIENCE FAIR

The 39th Baltimore Science Fair was held in March at Towson State University. For the twelfth year in a row, the Maryland Section sent a team of judges. Our thanks to this year's team: Mark Parks, Claire Williams, Aryo Nikopur, Greg Yep, Scott Bull and Roger Frey.

Ten Certificates of Achievement were awarded, five each in the high school and middle school divisions. The major awards went to C.P. Krishnamurthy of Centennial High School and Hal Alper of Pikesville Middle School. Each received a \$100 U.S. Savings Bond, an engraved ACS plaque and an invitation to attend, with a guest, our April meeting.

HELP WANTED - Section members are needed to help with our high school program. Duties include coordinating awards, judging science fairs, planning ongoing and new activities. Many roles to play. Meet people and enjoy yourself! Contact Mike Zapf.

NOMINATIONS SOUGHT

GUSTAVUS JOHN ESSELEN AWARD

THE ESSELEN AWARD FOR CHEMISTRY IN THE PUBLIC INTEREST IS ONE OF THE MOST PRESTIGIOUS HONORS PROVIDED BY THE AMERICAN CHEMICAL SOCIETY, NORTHEASTERN SECTION. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The significance of this work should have become apparent within the five years preceding nomination, and the Awardee shall be a living resident of the United States or Canada at the time of nomination.

THE AWARD CONSISTS OF A MEDAL AND A CHECK FOR \$5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award is normally given in Cambridge, Massachusetts at the April meeting of the Northeastern Section of the American Chemical Society. The Awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest.

TO NOMINATE a candidate, please provide the names of two co-sponsors as well as a biography of the candidate, a description of the work which has been recognized as communicating the positive values of the chemical profession, and copies of pertinent articles. Popular news and feature articles should also be included as an indication of public interest. Nominations and inquiries should be directed to Dr. Arthur S. Obermayer, 239 Chestnut Street, West Newton, MA 02165. NOMINATIONS SHOULD BE POSTED NO LATER THAN NOVEMBER 1, 1994. Joint nominations are acceptable. The Committee will review the nominations, and the award recipient will be notified by the first of February.

ACS SWITCHES TO RECYCLED PLASTIC

Environmental concerns have prompted the American Chemical Society (ACS) to switch from virgin polyethylene film to recycled polyethylene to wrap and mail its journals, according to Robert H. Marks, Director of the ACS Publications Division. Recycled polywrap containing recycled post-consumer plastic is a fairly specialized but growing product. ACS began in 1990 to ship its journals in a polyethylene wrapper. Although the wrappers reduced the cost of replacing damaged copies, some subscribers and ACS members felt the move was not environmentally sound.

Now, advances in plastic technology allow the Society to switch to a plastic wrapper made from recycled material. The new polywrap contains a total of 45 percent recycled plastic (15 percent post-consumer waste and 30 percent from industrial film waste). The remainder of the content is virgin plastic. The recycled material comes from sources such as plastic grocery bags and different forms of packaging recycled by consumers.

Innovative Packaging of Briarcliff Manor, N.Y., will supply the polywrap to ACS' printer, the Mack Printing Group, Easton, PA. Bruce Hollander, president of Innovative Packaging, says production of polywrap containing post-consumer material is "relatively new and growing." One problem that some suppliers have now overcome was low quality, Hollander explains, which prevented printers from using the recycled plastic because it couldn't be run through high-speed equipment to wrap publications.

The price for the recycled polywrap is about the same as the virgin wrap. The recycled polywrap could itself be recycled, though Hollander says that at this time appropriate community reclamation programs are not yet underway.

University of Maryland Baltimore County

Department of Chemistry and Biochemistry Fall 1994 Seminar Schedule

September 13	Dr. Mary Ellen McNally Agricultural Products Division E.I.DuPont de Nemours & Co.	"Optimization of Supercritical Fluid Extraction"
September 20	Dr. Dorothy Beckett Dept. of Chem. and Biochem. UMBC	"Thermodynamic and Structural Analysis of the Interaction of the Repressor of Biotin Bio- synthesis with Small Ligands"
September 27	Dr. Michelle M. Francl Department of Chemistry Bryn Mawr College	"Theoretical Studies of Organoaluminum Reactions"
October 12 Wednesday	Dr. Jeffrey T. Davis Dept. of Chem. and Biochem. UMCP	"Modified Biomolecules: Isoguanosine Quartets and Asn Glycopeptides"
October 19 Wednesday	Dr. David Sigman Dept. of Chem. and Biochem. UCLA	"Transcription Inhibitors Targeted to Open Complexes"
October 25	Dr. Anne L. Plant Biotechnology Division NIST	"Phospholipid/Alkanethiol Hybrid Supported Bilayers: Biomimetic Properties and Biosensor Applications"
November 7 Monday	Dr. Robert Matthews Department of Chemistry Pennsylvania State University	"Early Folding Intermediates in Dihydrofolate Reductase"
November 15	Dr. Richard Graham Department of Chemistry Towson State University	"Applications of Statistics in Chemistry"
November 29	Dr. Ildiko M. Kovach Department of Chemistry Catholic University of America	"Origins and Diversity of the Mechanisms of Aging in Serine Hydrolase Organophosphate Con- jugates"
December 6	Dr. Martin F. Semmelhack Department of Chemistry Princeton University	TBA

Room 403, Biological Sciences Building, Tuesdays, 3:30 PM For Additional Information, please contact Dr. Aris Kalivretenos at (410) 455-2516.

FUTURE SPEAKERS

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

Dec. 14/21, 1994: Maryland Chemist Award

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

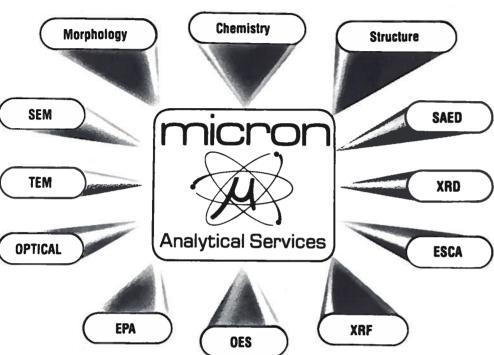
Mar. 15, 1995: Dr. William Jensen, Professor of Chemistry, University of Cincinnati

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

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