



THE **CHESAPEAKE
CHEMIST**

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. L

DECEMBER, 1994

NUMBER 9



THE MARYLAND CHEMIST OF THE YEAR

MARYLAND CHEMIST AWARD

1994

Presented to

Yale H. Caplan

In recognition for being an outstanding forensic toxicologist; in recognition of being a renowned educator, role model, mentor to other faculty members, and a mentor to many students; furthermore, in recognition as an excellent but modest leader and scholar; and in grateful acknowledgement of high standards evinced for all who aspire to excellence in science and in fulfillment in life.

Awarded this 14th day of December, 1994, with the esteem of his fellow scientists and the affection of his colleagues and associates.

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, as originally stated, may be in pure or applied chemistry, chemical engineering, or chemical education. Some recipients have distinguished themselves in management.

The Executive Committee of the Section has clarified the original definition of the award as follows:

Recipients of the Maryland Chemist Award must have been members of the Section for a minimum of five years and have made outstanding contributions to chemistry as defined in Article II of the Constitution of the Society (Chemistry is defined in broad terms). The work on which the award is based should have been performed in Maryland. Recommendations of the Maryland Chemist Awards Committee must be approved by the Executive Committee.

Previous recipients have been:

1962 E. Emmet Reid	1978 Gunther L. Eichhorn
1963 W. Mansfield Clark	1979 Emil H. White
1964 Alsoph H. Corwin	1980 M. Gali Sanchez
1965 John C. Krantz, Jr.	1981 Paul O. P. Ts'o
1966 Belle O. Talbot	1982 Joseph L. Katz
1967 Walter S. Koski	1983 Shih-Yi Wang
1968 George L. Braude	1984 Nicolas Zenker
1969 Leslie Hellerman	1985 John Lambooy
1970 Paul H. Emmett	1986 David F. Roswell
1971 Giles B. Cooke	1987 Gary H. Posner
1972 Arnold M. Seligman	1988 Edward J. Pozniomek
1973 Lester P. Kuhn	1989 Catherine Clarke Fenselau
1974 Joyce J. Kaufman	1990 Alex Nickon
1975 Benjamin Witten	1991 Cecil H. Robinson
1976 Richard L. Hall	1992 Craig A. Townsend
1977 Henry C. Freimuth	1993 Ernest F. Silversmith



THE CHESAPEAKE CHEMIST

VOL. L

DECEMBER, 1994

NUMBER 9

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.

YALE H. CAPLAN

Yale H. Caplan received his Bachelor's degree in Pharmacy (1963) and Ph.D. degree in Medicinal Chemistry (1968) from the University of Maryland at Baltimore (School of Pharmacy). After a year as Research Associate and Supervisor in experimental toxicology at Sinai Hospital in Baltimore, Dr. Caplan came to the Office of the Chief Medical Examiner as an Assistant Toxicologist in 1969 and served as Chief Toxicologist and Scientific Director of the State of Maryland's Alcohol Testing Program (1974-1991). Dr. Caplan is Director of the National Center for Forensic Science and Director of Forensic and Special Toxicology for the Maryland Medical Laboratory, Inc.

Dr. Caplan is President of the American Board of Forensic Toxicology of which he is a Diplomate, Director and was Secretary-Treasurer. He was President of the American Academy of Forensic Sciences (1987-1988), previously holding other offices including Chairman of the Toxicology Section. He was the recipient of the Academy's 1989 Rolla N. Harger Award for outstanding contributions to forensic toxicology. He is Past President of the Society of Forensic Toxicologists, Past-Chairman of the Maryland Section of the American Chemical Society and Past-Chairman of the National Safety Council's Committee on Alcohol and Other Drugs. He serves on the Editorial Advisory Board of the Journal of Forensic Sciences, the Journal of Analytical Toxicology and the Forensic Sciences Review.

Dr. Caplan is Clinical Professor in the Department of Pathology of the University of Maryland School of Medicine. He also serves as Affiliate Professor in the Department of Pharmaceutical Sciences in the School of Pharmacy. He is Director of Forensic Toxicology in the University-wide Program in Toxicology. He has contributed over 200 chapters, papers and abstracts to the scientific literature.

Dr. Caplan was a recipient of the 1986 Distinguished Service Award of the Maryland State Alcohol Control Administration and was a member of the Governor's Commission to Study Deaths Resulting from Building Fires. He serves as an advisor to attorneys regarding alcohol and drug testing issues and has regularly testified as an expert witness in court. He was formerly a member of the Substance Abuse and Mental Health Services Administration (formerly NIDA) Drug Testing Advisory Board and a consultant for the National Transportation Safety Board and a number of other private organizations and companies. He is presently a consultant for the Department of Transportation (Drug Enforcement and Program Compliance).

CHANGE OF ADDRESS

It is not necessary to notify *The Chesapeake Chemist* of your 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.

FORENSIC TOXICOLOGY

PERSPECTIVES IN AN APPLIED AND SERVICE SCIENCE

Forensic Toxicology focuses on the detection and measurement of alcohol, drugs and chemicals in biological fluids and tissues. It engenders an understanding of the expected and adverse effects of such substances and is applied to postmortem (death investigation), human performance (driving under the influence of alcohol or drugs) and workplace (detering alcohol and drug abuse) situations. Although laboratory test results which directly impact individuals and society as a whole are the primary product, the forensic toxicologist deals also with interpretation of these tests in the context of judicial and safety related issues. Applied research developed to answer contemporary questions dealing with illicit drugs of abuse such as cocaine, heroin, phencyclidine, amphetamines, and cannabinoids as well as legitimate drugs such as alcohol and antidepressants, along with other chemicals as carbon monoxide and cyanide will be described with emphasis on the advances regarding analysis and interpretation, and epidemiology of these substances. Case studies will also be included to illustrate the impact of some common poisons.

THE MARYLAND CHEMIST AWARD

DATE & PLACE:

Wednesday, December 14, 1994
University of Maryland
Baltimore County
Faculty/Staff Dining 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

by December 7. Late reservations may be made by calling

7:00 Dinner

8:00 The Maryland Chemist Award Address

(410) 532-5712

YALE H. CAPLAN
National Center for
Forensic Science
"Forensic Toxicology:
Perspectives in an
Applied and Service
Science"

by December 9. Answering machine is available at this number.

Dinner price is \$16.00 per person, 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.

E-MAIL COMMUNICATION

Some members have expressed an interest in communicating with others by E-mail. Anyone wishing to have their E-mail addresses made available to others should contact Secretary Mike Zapf. Mike will then determine how this might be handled.

1995 PATTERSON-CRANE AWARD

Nominees for the 1995 Patterson-Crane Award are being sought by the Columbus and Dayton, Ohio, Sections of the American Chemical Society. The biennial award, consisting of a \$2000 honorarium and a personalized commendation, is given in honor of Austin M. Patterson and E.J. Crane, previous editors of *Chemical Abstracts*.

An international honor, the Patterson-Crane Award acknowledges contributions to the field of chemical literature, especially chemistry documentation, chemical information storage and retrieval, and implementation and management of chemical information services.

Nominations for the award must be in writing and should discuss the nominee's contributions to the field as well as an evaluation of accomplishments. Materials supporting the nomination should include a biography and bibliography of publications and presentations. Seconding letters are required.

Send one copy of the nomination materials to The Patterson-Crane Award Committee, Judy Watson, Chemical Abstracts Service, P.O. Box 3012, Columbus, Ohio 43210-0012, for receipt by January 31, 1995. To receive an informative brochure about the award, contact Watson at 614-447-3662.

Nominations will be judged by a seven-member selection committee consisting of Columbus and Dayton Section members as well as the Chairman of the American Chemical Society's Division of Chemical Information.

The 1995 Patterson-Crane Award will be presented on May 9, 1995, at an awards dinner to be held in Columbus, Ohio.

EXECUTIVE COMMITTEE MEETING

Minutes of the meeting of September 7, 1994 held at Knott Science Building, Notre Dame College.

The meeting was called to order by Chairperson Alice Zeiger at 7:36 P.M.

Members Present: Merle Eiss, Don Hoster, Don Jones, Jan Kolakowski (Treasurer), Joe Lomax, Shekar Munavalli (Chair Elect), Tim Parr, Elwin Penski, Ernie Silversmith, Shirish Shah, Bill White, Mike Zapf (Secretary), Alice Zeiger (Chair).

The Minutes of the meeting of April 27, 1994 were accepted as read. Mike apologized for not having a typed copy ready for the Record, as at the last minute he had PC problems. A copy was mailed soon to each of the other three Executive Committee members.

The Treasurer's Report was given and was accepted and some items were discussed. Three thousand dollars of the loan to the MARM Committee was received and it was mentioned that the other \$2000 would increase the assets reported by the Treasurer by the same amount. Don Jones suggested that it might be helpful if a simple comparison could be made between the last year to date and the current one; Jan Kolakowski will give this a try. Discussion followed about the cash award presented to Congressman Brown. Initially Brown donated \$2000 to an Educational Fund in California and \$1000 was to be returned to WRG, however, that sum was later donated to another fund in California. The meals receipts are shown for only the May meeting. The committee was reminded about the nature of the loan to the MARM and the reasons for it by Don Jones and Tim Parr.

Archives: Ernie Silversmith reported that he has still not heard from National about the earlier (two) proposals that he had submitted as Historical Sites. He has heard from an Ann Higgins that the Bromo Seltzer site was not acceptable, although it seems that the Morgan State site might be evaluated. Ernie has heard from Dr. Harford, a former chromium mine expert, who is willing to assist in obtaining plaques to mark the sites upon his return to the Baltimore area.

Awards: Maryland Chemist - Elwin Penski mentioned that the committee is getting a good response and the selection process is becoming involved. A letter was given to the Executive Committee citing Dr. Yale Caplan, Director, National Center for Forensic Science; Maryland Service Award - no report; College students - no report; Bill White suggested that the Program Chairperson consider including an early speaker in an effort to draw further attention to the major awards such as the Remsen Award. The W.R. Grace award went very well and Congressman Brown was pleased. There was good attendance at the Awards Dinner held during the MARM at UMBC. Publicity still seems to be troublesome. The media does not seem interested.

Nominations: Alice noted that the nominations have appeared in the September issue of *The Chesapeake Chemist*.

By-Laws: Elwin had nothing to add.

Chemical Ed & Safety: Shirish described the Sandals Program conducted each summer at Notre Dame College which involves minority females. Alice forwarded an educational video to Shirish belonging to the Section's library.

Chesapeake Chemist: Alice Zeiger mentioned that Ray would not be here tonight. It was noted that some members have already had the September issue in hand and Alice reported that Ray has sent the October issue to the printer.

Finance: Jan Kolakowski referred to the Treasurer's report and noted that the Fidelity Contra Fund was yielding about 7% and that the Household Bank CD was at 3.49% until next year. The Nicholas fund is doing okay but has not climbed as much as in recent years.

High School Program: Mike Zapf mentioned that the Section once again supported the efforts of The University of Maryland College Park for the Chemathon; the Section gives ChemMatters Magazine to some of the winners and Mike assists as a judge. There has not been a High School Chemistry Teacher Award for 1994 because of small and inadequate responses. Mike presented a rough idea to enhance the Award by involving Baxter Scientific at a higher level and wished to represent the Section in any discussions; a motion was made to grant Mike the request to represent the Section and it was carried. Help is needed to keep the High School program active. Don Jones mentioned that he has a potential source for a pool of teachers for the Teacher Award.

House: Steve Gregory will be looking to turn his job over to someone new.

MARM - '94: Tim Parr reported that all accounts are not quite closed out yet and that the general report is due. A note from Chuck Rowell was read that thanked those who contributed to the success of the meeting. A bill from National for \$6100 needs to be investigated. There was discussion about the payment for travel expenses to some speakers although there were funds to cover these. Don Jones mentioned that a MARM could be held every year because at least the six largest sections could carry out these programs and suggested that the Maryland Section consider a MARM for the year 2000. A motion was made and was carried to send a letter of interest to the MARM Steering Committee.

Member Assistance: Merle Eiss said that she has received very few calls from anyone looking for employment.

Membership: Ron Erickson from Scios-Nova was moved out of state and Joe Lomax from the Naval Academy will take this position.

National Chemistry Week '94: Alice Zeiger gave a report that she received from Subhash Dhanasar. A flyer has been made and is in the mail to the membership. November 9th is designated as Chemical Bonding Day by the Chemical Alliance of Maryland and this will occur in the middle of NCW. Alice will give the t-shirts that she designed to the teacher-participants.

Program: Shekar Munavalli mentioned that his schedule was issued earlier for the '94 to '95 year and that several of the meeting sites need to be confirmed. He will be out of the country for several weeks.

Publicity: Don Jones continues to send meeting flyers to anyone who requests them for posting. We should get ours into C&E News.

Public Relations: No report

Women Chemists: No report.

Old Business: Joe Lomax reported on the Picnic. It went well in spite of a late mailing. The Washington Section was not as well represented as the Maryland Section and perhaps interest is dwindling. About 100 people attended the picnic on an unusually pleasant day in August.

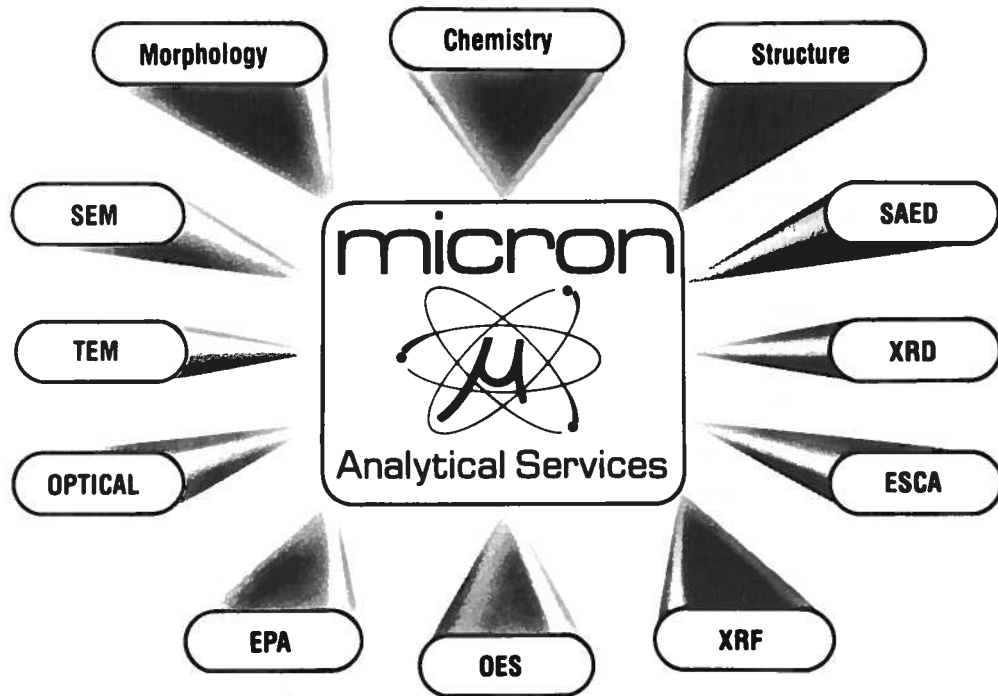
New Business: Mike Zapf will write a notice for the CC to solicit E-Mail addresses from anyone who would like theirs known. Alice Zeiger mentioned a survey that she had from a college professor who is interested in information about the training of BS level chemists. An Award for the contribution of chemists to the Public Interest was mentioned by Alice Zeiger and nominations were requested. Mike Zapf and Alice Zeiger described their intent to hold a planning and discussion session about the status of the Section; perhaps in October and anyone is invited. Don Jones needs money for ACS emblems for award plaques; the treasurer will pay for them. Shekar Munavalli suggested that we consider raising the prize for the Remsen Award. The next Executive Committee meeting will be held at NDC on December 7th, 1994.

The meeting adjourned at 9:30 P.M.

DECEMBER 1994

Nonprofit Org.
U. S. Postage
P A I D
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.