



THE

CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. LIV

MAY, 1998

NUMBER 5

1998 REMSEN AWARD



PETER B. DERVAN



THE CHESAPEAKE CHEMIST

VOL. LIV

MAY, 1998

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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.

CALL FOR 1999 EAS Award Nominations

EAS is soliciting nominees
for its '99 Awards for
Outstanding Achievement in:

Fields of Analytical Chemistry,
Near-Infrared Spectroscopy,
Separation Science,
Magnetic Resonance,
and Chemometrics.

The deadline for receipts
of nominations is
September 30, 1998.
These awards will be
presented at the
1999 Eastern Analytical
Symposium.

A primary letter of recommendation should be submitted by someone familiar with the nominee's work, and be of a length appropriate to the nominee's accomplishments. It should include a discussion of his or her work's significance, a list of publications, presentations, and awards, and a statement of the nominee's willingness to present an address at an EAS Award Symposium. Each Award consists of an honorarium, plaque, travel expenses, and the opportunity for the awardee to present his or her work to the attendees at an Award Symposium.

Nomination materials should be addressed to:

Chairman, EAS Awards Committee,
P. O. Box 633, Montchanin, DE 19710-0633 USA

For more information visit our web site: <http://www.eas.org>



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THE 53rd REMSEN LECTURER

Professor Peter B. Dervan
Bren Professor of Chemistry
California Institute of Technology

Regulation of Gene Expression by DNA Binding Synthetic Ligands

Peter B. Dervan received his early education in Boston, Massachusetts (B.S., Boston College, 1967). He began research in physical organic chemistry working with Jerome A. Berson at Yale University. After earning his Ph.D. degree in 1972, he spent a year at Stanford University as an NIH Postdoctoral Fellow (1973). From Stanford he went to Pasadena to take up a faculty appointment at the California Institute of Technology where he is now Bren Professor of Chemistry and Chairman of the Division of Chemistry and Chemical Engineering.

Professor Dervan has created a new field of bioorganic chemistry with studies directed toward understanding the chemical principles for the sequence specific recognition of the genetic material, DNA. Dervan has combined the art of synthesis, physical chemistry and biology to create novel synthetic molecules with affinities and sequence specificities comparable to Nature's proteins. Dervan and co-workers discovered that polyamide dimers containing imidazole (Im) and pyrrole (Py) amino acids distinguish G•C from C•G base pairs and both from A•T/T•A in the minor groove of DNA. His research team completed the recognition code to distinguish all four Watson Crick base pairs by adding a third aromatic amino acid, hydroxypyrrrole (Hp). The Hp/Py pair distinguishes T•A from A•T base pairs and both from G•C/C•G base pairs. Hp-Im-Py polyamides use a single molecule shape to provide for coded targeting of predetermined DNA sequences. This non-biological approach to DNA recognition underpins the design of cell-permeable molecules for the regulation of gene expression in-vivo which could have profound implications for human medicine.

Professor Dervan is a member of the National Academy of Sciences, the Institute of Medicine and the American Academy of Arts & Sciences. His awards include the Harrison Howe Award (1988), Arthur C. Cope Award (1993), Willard Gibbs Medal (1993), Nichols Medal (1994) and Maison de la Chimie Foundation Prize (1996).

Professor Dervan's address is titled "Regulation of Gene Expression by DNA Binding Synthetic Ligands". Small molecules that specifically bind at subnanomolar concentrations to any predetermined DNA sequence in the human genome would be useful tools in biology and potentially in human medicine. This lecture describes a twenty-year search for a simple chemical code to digitally ready the information stored in the DNA double helix.

MARM 2000 AT TOWSON

The 34th annual Middle Atlantic Regional Meeting of the American Chemical Society will be hosted by the Maryland Section of the ACS. The meeting will be held at Towson University from May 30 to June 2, 2000. The Program Co-chairpersons are Ernie Silversmith of Morgan State University and Tom Lectka of the Johns Hopkins University. Laurence Boucher of Towson University is the General Chairperson of the meeting. There are subcommittees on development, awards, registration, printing, short courses, workshops, publicity, local arrangements and exhibits. All the subcommittees welcome volunteers; anyone interested should send an e-mail to LBOUCHER@TOWSON.EDU indicating the subcommittee desired. The Program Co-chairpersons are also interested in hearing from the members about suggestions for the program, especially a conference theme and symposium topics.

THE 53rd REMSEN LECTURE

DATE:

Wednesday, May 27, 1998

PLACE:

Remsen Hall, Room 101
Homewood Campus
The Johns Hopkins University

SPEAKER AND TOPIC:

8:00 pm
THE REMSEN MEMORIAL LECTURE
Peter B. Dervan
Bren Professor of Chemistry
California Inst. of Technology
"Regulation of Gene Expression by
DNA Binding Synthetic Ligands"

Dinner price is \$18.00 per person,
but spouses and retired chemists
may attend for \$15.00; students
may attend for \$9.00.

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

DINNER:

The Johns Hopkins University
Milton S. Eisenhower Library
Garret Room
Reception: 6:00 pm
Dinner: 7:00 pm

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 May 20. Late reservations may
be made by calling

(410) 532-5712

by May 22. An answering machine
is available at this number.

THE REMSEN AWARD

The annual Remsen Memorial Lectures were inaugurated in May, 1946 by the Maryland Section of ACS to honor Ira Remsen, first Professor of Chemistry and second President of the Johns Hopkins University. The Remsen Memorial Lecturers are chemists of outstanding achievement, in keeping with Ira Remsen's long and devoted career as an exponent of the highest standards in teaching and research in chemistry.

PREVIOUS REMSEN AWARD WINNERS

1997 William Hughes Miller	1980 Roald Hoffman	1962 George Porter
1996 David Evans	1979 Harry B. Gray	1961 Herbert C. Brown
1995 Alfred C. Redfield	1978 John Charles Polanyi	1960 Henry Eyring
1994 Edward I. Solomon	1977 Ronald Breslow	1959 Edward Teller
1993 Christopher T. Walsh	1976 William N. Lipscomb, Jr.	1958 Robert B. Woodward
1992 William Klemperer	1975 Henry Taube	1957 Melvin Calvin
1991 Rudolph A. Marcus	1974 Elias J. Corey	1956 Farrington Daniels
1990 Robert G. Bergman	1973 Frank H. Westheimer	1955 Willard F. Libby
1989 K. Barry Sharpless	1972 Charles H. Townes	1954 Vincent du Vigneaud
1988 Mildred Cohn	1971 George C. Pimentel	1953 Edward L. Tatum
1987 Stephen L. Lippard	1970 George S. Hammond	1952 W. Mansfield Clark
1986 Gilbert Stork	1969 Albert L. Lehninger	1951 Hugh S. Taylor
1985 Richard N. Zare	1968 Har C. Khorana	1950 Edward C. Kendall
1984 Earl L. Muetterties	1967 Marshall W. Nirenberg	1949 Joel H. Hildebrand
1983 George M. Whitesides	1966 Paul H. Emmett	1948 Elmer V. McCollum
1982 Harden McConnell	1965 James R. Arnold	1947 Samuel C. Lind
1981 Koji Nakanishi	1964 Paul D. Bartlett	1946 Roger Adams
	1963 Harold C. Urey	

Picnic

Picnic

Picnic

When: July 12, 1998

Where: Patapsco State Park, Pavilion # 501
McKeldin Area (Marriottsville Road)

Time: Noon to Dusk

The Maryland Section in cooperation with the Chemical Society of Washington will again sponsor our almost annual family picnic. The Sections will furnish hotdogs, hamburgers, sodas, beer, condiments, paper goods, cups, utensils, etc. The McKeldin Area has a ball diamond, basketball court, volleyball court, hiking trails, horseshoe pits, wading stream and more.

To make the picnic a special food fest we are asking participating families to bring a food dish. Please use the initials formula shown below:

A-F side dish

G-L dessert

M-R snack

S-Z salad

Fees: \$15.00 per family; \$7.50 per individual.

Reservations: Please send checks, payable to Maryland Section of ACS, to

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

by July 1. Late reservations may be made by calling (410) 532-5712

Entrance to the park is free for seniors (62 and up) and for children under 16. There is a small fee for others.

Bring your sports equipment. Plenty of free parking
Experienced camp counselors could be helpful

50-YEAR MEMBERS AT BELMONT

The ACS Maryland Section will hold a luncheon at Belmont on May 15, 1998 at noon to honor its new 50-year members of the American Chemical Society. All Section members are encouraged to attend, but space is strictly limited.

The cost for the luncheon for members will be \$25, but spouses and retired persons may attend for \$20. Please make reservations promptly with

Dr. Shirish Shah phone (410) 532-5712
College of Notre Dame e-mail sshah4@juno.com
4701 North Charles Street
Baltimore, MD 21210

Alvin Bober, Elwin Penski and Ernest Silversmith have organized a congratulatory program for the occasion.



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CHEMATHON 1998

The annual Chemathon will be held in May at the University of Maryland in College Park. The Section has supported this affair for years, aiding with labs, providing judges and presenting awards. Assistance is always needed. The time is from 8:30 to noon on a Saturday. To offer your services contact Mike Zapf at mikezapf@mccormick.com or send a message to the ACS ListServe at ACSMD-L@FOODSAFETY.GOV

ELECTION OF OFFICERS

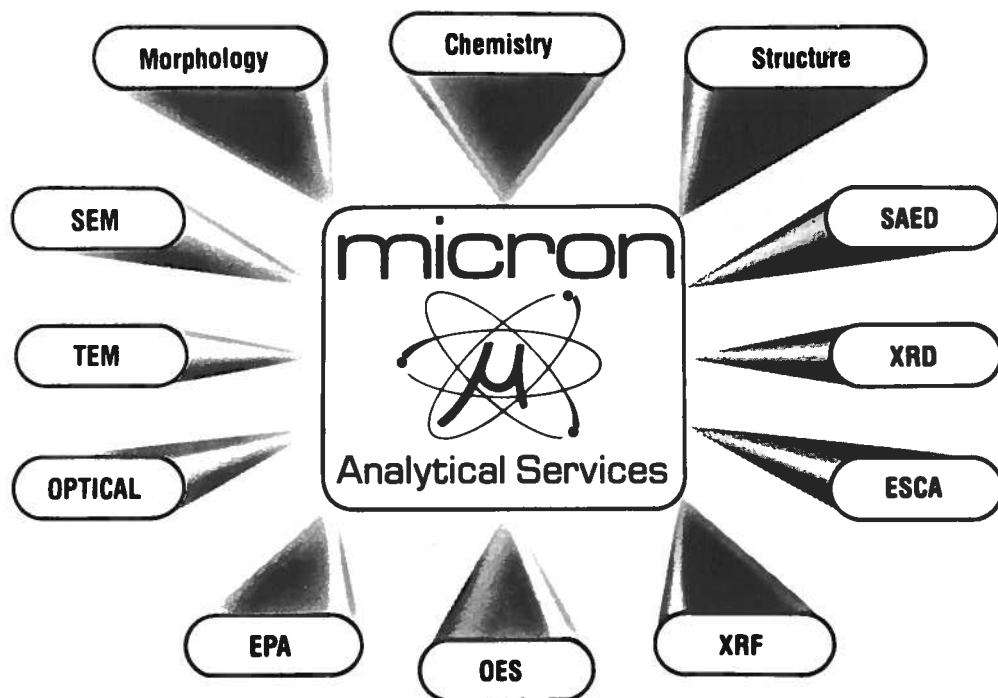
Please complete the following ballot for the election of 1999 officers, councilors and members-at-large of the Executive Committee of the Section and return it to the Chair by July 10. Please sign the envelope, but not the ballot itself, so that membership can be verified.

Chair	Mark Greenberg	_____
Vice Chair	Kathleen Thompson	_____
Chair-elect	Mark Gold	_____
Secretary	Anna Kraut-Vass	_____
Treasurer	Robert Von Tersch	_____
Councilors (elect two)	Charles Rowell	_____
	Merle Eiss	_____
Members-at-large (elect five)	Mike Ellzy	_____
	Catherine Fenselau	_____
	Donald Hoster	_____
	Asoka Katumuluwa	_____
	Dale L. Whalen	_____

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SCIENCE FAIR JUDGES

The Maryland Section once again participated in the local science fairs held at Morgan State University and at Towson University. We had complete teams at each fair this year, coordinated by Mike Zapf, and we acknowledge their participation with thanks.

At Towson the judges were Scott Bembenek (APG), Robert Mandus (Essex Community College), Shekar Munavalli (GeoCenters), Sara Narayan (Villa Julie College), Dave Scarpetti (Gilford Pharmaceuticals) and Mike Waltz (Proctor & Gamble).

At Morgan were Karen Stewart (Maryland Department of Health and Mental Hygiene), Eugene Vickers (APG), and Sonya Dai, Bunmi Esho, Markus Rudek, and Yvonne Ying (all from the Johns Hopkins University Department of Chemical Engineering).