



# THE CHESAPEAKE CHEMIST

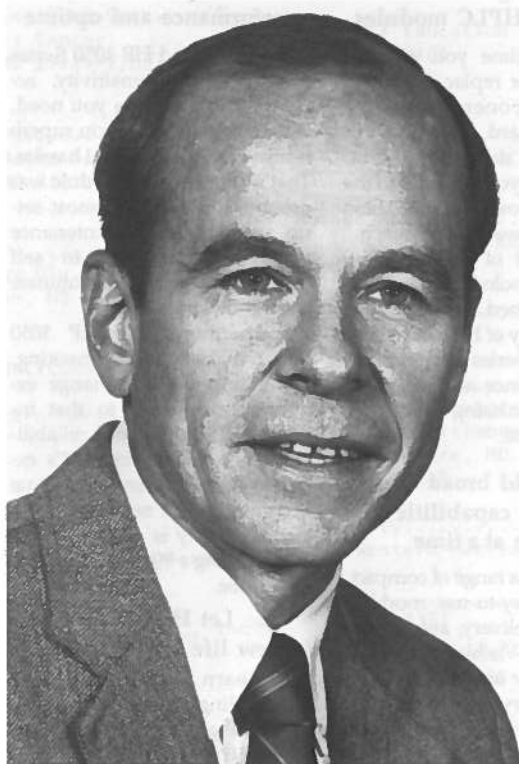
MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. XLV

MAY, 1989

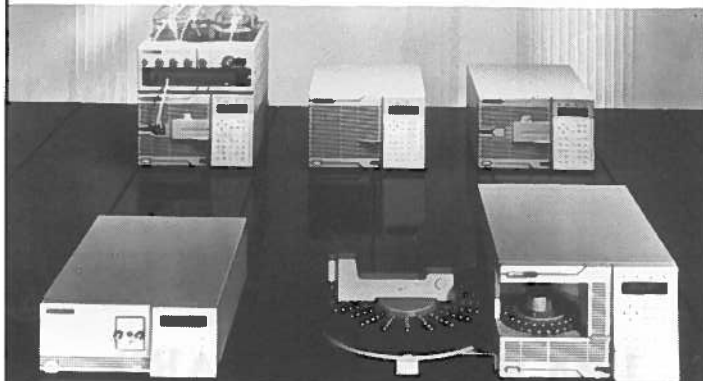
NUMBER 5

## 1988 REMSEN AWARD



**K. BARRY SHARPLESS**

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# THE CHESAPEAKE CHEMIST

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Ellicott City, MD 21043  
465-8520

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

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# THE 44th REMSEN AWARD

K. BARRY SHARPLESS

Born April 28, 1941, in Philadelphia, K. Barry Sharpless received his B.A. from Dartmouth College (1963), where Thomas A. Spencer introduced him to organic chemistry and to research, and his Ph.D. from Stanford University (1968) under the direction of E. E. van Tamelen. He is the Author C. Cope Professor of Chemistry at the Massachusetts Institute of Technology, having joined the faculty in 1970 following postdoctoral years with James P. Collman at Stanford University and Konrad Bloch at Harvard University. He was on Stanford University's chemistry faculty from 1977 through 1980.

A former A. P. Sloan Fellow, Camille and Henry Dreyfus Teacher-Scholar, Guggenheim Fellow and Sherman Fairchild Distinguished Scholar at the California Institute of Technology, Sharpless is a fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science, and a member of the National Academy of Sciences. He has received the American Chemical Society's Award for Creative Work in Organic Synthesis and Arthur C. Cope Scholars Award, the Dr. Paul Janssen Prize for Creativity in Organic Synthesis (Belgium), the Allan R. Day Award (Philadelphia Organic Chemists Club), and the Harrison Howe Award (Rochester Section, American Chemical Society).

During 1988 Sharpless received the Rolf Sammet Prize (Johann Wolfgang Goethe Universität, Frankfurt-am-Main), the Prelog Medal (Eidgenössischen Technischen Hochschule, Zurich), and the Chemical Pioneer Award of the American Institute of Chemists.

Professor Sharpless has made outstanding contributions to the fields of oxidation, metal-organic chemistry, and synthesis. His current research interests include developing new homogeneous catalysts for the oxidation of organic compounds, using inorganic reagents to effect new transformations in organic chemistry, and asymmetric catalysis involving both early and late transition metal-mediated processes.

## SELECTIVE ABILOGICAL CATALYSIS

Organic chemists have long regarded enzymic catalysis as the paradigm for selective catalysis, and perhaps the most difficult property of enzymes to mimic is the nearly-perfect asymmetric induction realized during the creation of new stereocenters. During the last twenty years, chemists made remarkable progress in the discovery and design of man-made selective catalysts and even developed useful asymmetric catalysts. This lecture focuses on the asymmetric processes which are useful in organic synthesis, and the relative merits, with respect to practical organic syntheses, of biological and abiological approaches to asymmetric catalysis.

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### DATE:

Wednesday, May 17, 1989

### PLACE:

Remsen Hall, Room 101  
Homewood Campus of  
The Johns Hopkins University

### SPEAKER AND TOPIC:

8:00 pm  
K. Barry Sharpless  
Massachusetts Institute  
of Technology  
"Selective Abiological  
Catalysis"

### COCKTAILS AND DINNER:

The Johns Hopkins University  
Glass Pavilion

Social Hour 6:00 pm  
sponsored by  
Macalester Bicknell  
Dinner 7:00 pm

Dinner reservations should be made  
by mailing checks, payable to Mary-  
land Section of ACS, to

Ms. Julia Pearson  
Nova Pharmaceutical Corp.  
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Dinner price \$15.00 per person,  
but spouses, retired chemists and  
students may attend for \$13.00

by May 10. Late reservations may  
be made by calling (301) 563-6183 by  
May 12. An answering machine is  
available at this number.

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

## THE REMSEN AWARD

The annual Remsen Memorial Lectures were inaugurated in May, 1946 by the Maryland Section of the 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 Awards winners:

1988	Mildred Cohn	1966	Paul H. Emmett
1987	Stephen J. Lippard	1965	James R. Arnold
1986	Gilbert Stork	1964	Paul D. Bartlett
1985	Richard N. Zare	1963	Harold C. Urey
1984	Earl L. Muetterties	1962	George Porter
1983	George M. Whitesides	1961	Herbert C. Brown
1982	Harden McConnell	1960	Henry Eyring
1981	Koji Nakanishi	1959	Edward Teller
1980	Roald Hoffman	1958	Robert B. Woodward
1979	Harry B. Gray	1957	Melvin Calvin
1978	John Charles Polanyi	1956	Farrington Daniels
1977	Ronald Breslow	1955	Willard F. Libby
1976	William N. Lipscomb, Jr.	1954	Vincent du Vigneaud
1975	Henry Taube	1953	Edward L. Tatum
1974	Elias J. Corey	1952	W. Mansfield Clark
1973	Frank H. Westheimer	1951	Hugh S. Taylor
1972	Charles H. Townes	1950	Edward C. Kendall
1971	George C. Pimentel	1949	Joel H. Hildebrand
1970	George S. Hammond	1948	Elmer V. McCollum
1969	Albert L. Lehninger	1947	Samuel C. Lind
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1967	Marshall W. Nirenberg		

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## REMSEN NOMINATIONS

With the Remsen Award fresh in our minds, we might think about nominations for next year's award. Nominations should be accompanied by a curriculum vitae and a list of the nominee's publications as well as other helpful information.

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## ACS SUMMER PICNIC

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ON: Sunday, July 23, 1989 from 11:00 am to 5:00 pm

AT: The National Conference Center of  
The American Chemical Society  
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FEASTING: Beer, Soft Drinks, Hamburgers and Hot Dogs  
will be provided

BRING: Coolers, Lawn Chairs, Swimsuits, Sports Gear  
Also bring a covered dish:  
A-D, Salad; E-K, Side Dish; L-R, Dessert; S-Z, Munchies

GAMES: Swimming, Volleyball, Tennis, Softball

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### • ORGANIC ANALYSIS •

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emission spectroscopy, chromatography

## MARYLAND SECTION AMERICAN CHEMICAL SOCIETY

# Diamond Anniversary 1914 <> 1989

SHERATON INNER HARBOR HOTEL  
BALTIMORE, MARYLAND  
SATURDAY, SEPTEMBER 23, 1989  
7 P.M. — 12 MIDNIGHT  
SOCIAL HOUR / POSTER SESSION  
DINNER / PROGRAM  
DANCE

On September 23, 1914 the President of the American Chemical Society, Theodore W. Richards, signed the document approving a Charter for the Maryland Section of the ACS. In a meeting held at the old downtown Hopkins Club on October 10, 1914, the chemists officially formed the Maryland Section by accepting the constitution and the by-laws. Since that time, the Section has grown from 74 to over 1700 members. To celebrate the 75th anniversary, an evening of festivities including a poster session, dinner and dance with open bar has been planned. Tickets will not be available at the door and attendance must be limited to the first 200 who R.S.V.P. by Friday, August 18, 1989. For further details on the celebration, please contact Drs. John or Susan Lever at 301/955-3350. Tickets for the event may be ordered using the coupon below.

### CALL FOR POSTERS AND MEMORABILIA

Steve Everett is planning a poster session to run in conjunction with the social hour. He needs posters of a historical nature related to the Maryland Section or to chemistry in Maryland. If representatives of your organization would like to submit a poster, please contact Dr. Everett.

Our archivist, Ernie Silversmith, is still looking for memorabilia, anecdotes, documents, etc. pertaining to the history of the Maryland Section. He is especially interested in obtaining further documents from the early years of the section (1914-1924). He would also like information on the membership size for the years 1964-present. If you have or know of anything of historical interest to the Maryland Section, please contact Dr. Silversmith.

To Submit a Poster Contact:  
Dr. T. Stephen Everett  
Department of Chemistry  
Towson State University  
Towson, MD 21204  
301/321-3051

Send Memorabilia to:  
Dr. Ernest Silversmith  
2607 Taney Road  
Baltimore, MD 21209  
301/358-0619 (H)  
301/444-3214 (W)

Ticket price: \$40 per person.  
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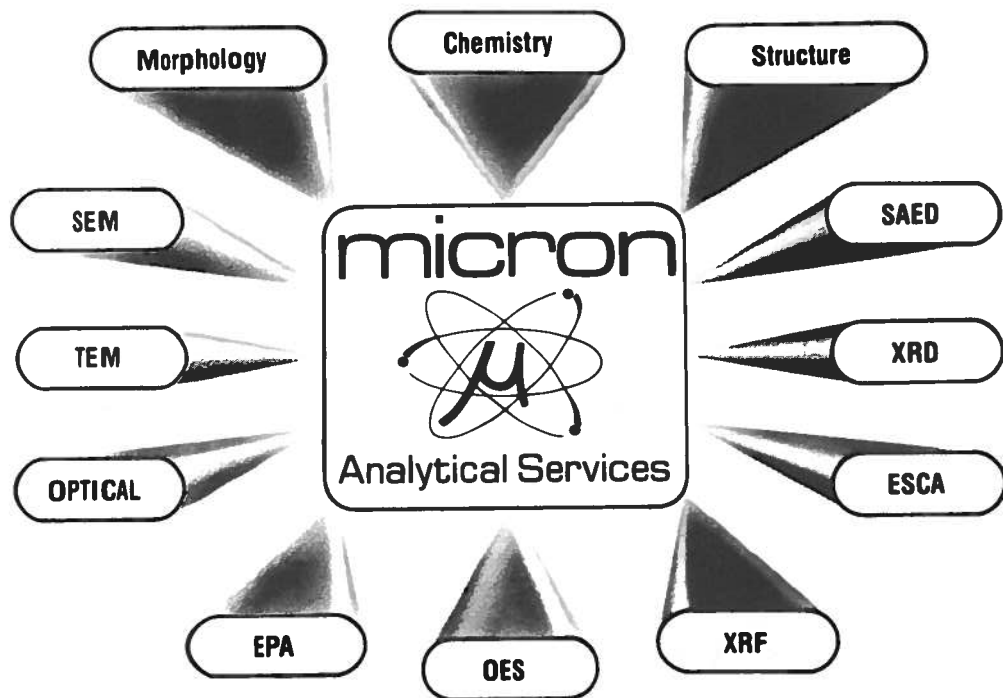
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