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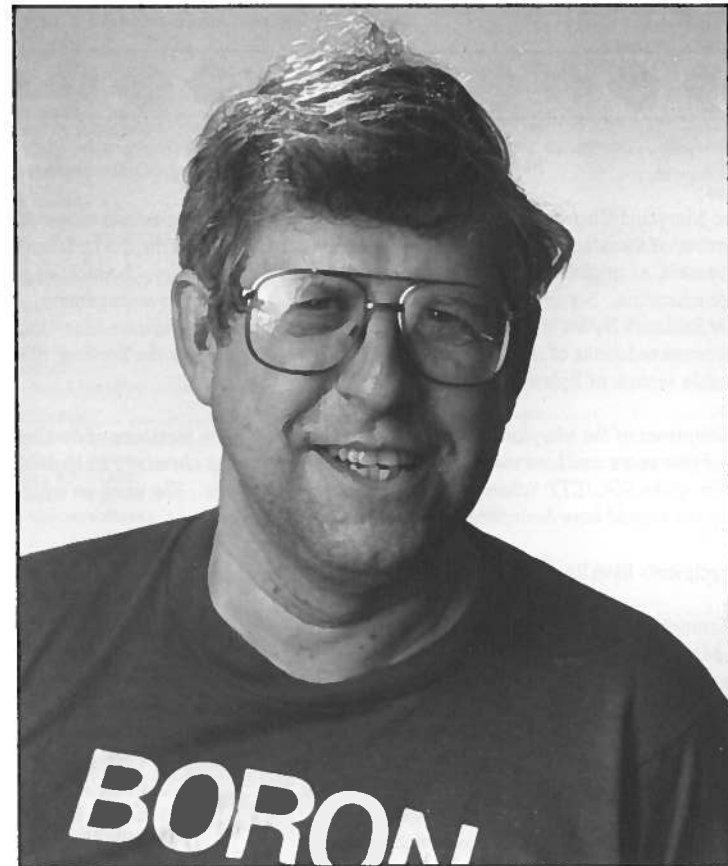
CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. LIV

DECEMBER, 1998

NUMBER 9



THE MARYLAND CHEMIST OF THE YEAR

MARYLAND CHEMIST AWARD

1998

Presented to

Professor Joel F. Liebman

In recognition for being a dedicated, enthusiastic, and superb researcher; in recognition of being a prolific publisher, and thoughtful educator, role model, and insightful colleague; and furthermore, in grateful acknowledgment of high standards evinced for all who aspire to excellence in science and in achievement in life.

Awarded this day of December 1998, 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 Section's Bylaw VIII establishes the rules of selection of recipients Maryland Chemist Award. Recommendations of Awards Committees must be approved by the Section officers. The applicable section of Bylaw VIII is quoted 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 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."

Previous recipients have been:

1962 E. Emmet Reid	1974 Joyce J. Kaufman	1986 David F. Roswell
1963 W. Mansfield Clark	1975 Benjamin Witten	1987 Gary H. Posner
1964 Alsoph H. Corwin	1976 Richard L. Hall	1988 Edward J. Poziomek
1965 John C. Krantz, Jr.	1977 Henry C. Freimuth	1989 Catherine Clarke Fenselau
1966 Belle O. Talbot	1978 Gunther L. Eichhorn	1990 Alex Nickon
1967 Walter S. Koski	1979 Emil H. White	1991 Cecil H. Robinson
1968 George L. Braude	1980 M. Gali Sanchez	1992 Craig A. Townsend
1969 Leslie Hellerman	1981 Paul O. P. Ts'o	1993 Ernest F. Silversmith
1970 Paul H. Emmett	1982 Joseph L. Katz	1994 Yale H. Caplan
1971 Giles B. Cooke	1983 Shih-Yi Wang	1995 Richard H. Smith, Jr.
1972 Arnold M. Seligman	1984 Nicolas Zenker	1996 Shekar Munavalli
1973 Lester P. Kuhn	1985 John Lambooy	1997 Wu-Cheng Cheng



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Joseph Topping
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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.

Joel F. Liebman
Professor of Chemistry
University of Maryland Baltimore County

"Interconnections: Intramolecular, Intermolecular and Interpersonal"

My research transcends the boundaries between inorganic, organic and physical chemistry and occasionally involves reasoning and findings from "orthodox" theoretical chemistry as well as from materials science and even mathematics. Finding patterns in the phenomena and developing a sense of the molecule are key components of my study. I look for the interconnections within a molecule and between molecules --- conceptual as well as chemical bonds. It is that search from which my perennial question arises -- "What is your favorite molecule or, sensing difficulty, favorite molecules?" -- asked of seminar speakers visiting my department during my chosen sign up time to talk to them, and even asked of students trying to decide on a graduate school or even an undergraduate major. The process of answering often generates an ancillary, interpersonal connection: coauthorships and friendships have occasionally arisen. When the question is reciprocated, however rarely, I am not sure what my answer is. It varies with my mood, my most recently written or read paper. Some answers today are HeF^+ , ArF^+ , XeF^+ ; B_nH_n , C_nH_n , and their related ions. What are your answers to my question? Perhaps another coauthored paper and a new friendship will arise.

About the Speaker....

Born of undereducated parents and a high school dropout himself, Joel Liebman received his B.S. with honors in Chemistry from Brooklyn College in 1967 and his M.A. and Ph.D. from Princeton University in 1968 and 1970 respectively. In 1970 he went to Cambridge University as a NATO Postdoctoral Fellow and returned stateside in 1971 on a NRC-NBS Postdoctoral Associateship at the U.S. National Institute of Standards and Technology (NIST, then called, the National Bureau of Standards) in Gaithersburg, MD. In 1972 he joined the faculty at the University of Maryland, Baltimore County as an Assistant Professor, receiving promotion and tenure as an Associate Professor in 1977 and becoming a Full Professor of Chemistry in 1982. Since 1979 he has been also associated with NIST as a consultant/contractor or co-investigator on a variety of projects. For his professional career to date, he has coauthored 2 books, coedited 16 more, and either authored or coauthored 154 journal articles and 57 book chapters and review articles, as well as reviewing for 9 granting agencies and funding agencies and refereeing for 47 different journals. Other awards he has won include the Osgood Honorarium (Princeton, 1968, 1969), Honorary Ramsay Fellowship (UK, 1970), Young Chemist of the Year (from the DC Chapter of the American Institute of Chemists, 1981) and travel grants from German (1977), Norwegian (1992, 1994) and Portuguese (1992) scholarly organizations.

Directions to University of Maryland Baltimore County

To reach UMBC from the North, take Interstate 95 to Route 166 (Exit 47B, Catonsville) or take Interstate 83 to the Baltimore Beltway (I-695), and then take Exit 12C (Wilkins Avenue, West); follow the signs to UMBC. From the South, take Interstate 95 to Route 166 (Exit 47B, Catonsville); follow signs to UMBC.

Pick up a free temporary parking pass from Parking Services in the Central Plant Building (455-2551), the Campus Information and Resource Center on the 2nd floor of University Center (455-1000), or the University Police Office during non-business hours. Visitor parking regulations are enforced on all University calendar days. Hilltop Circle and all campus roadways require a parking permit unless otherwise marked.

THE MARYLAND CHEMIST AWARD

December Monthly Meeting
Wednesday, December 16, 1998
University of Maryland Baltimore County
Faculty/Staff Dining Hall

Agenda

6:00 - 7:00 p.m.	Social/Networking time with assorted sodas and light snacks
7:00 - 8:00 p.m.	Buffet Dinner
8:00 - 9:30 p.m.	"Interconnections: Intramolecular, Intermolecular and Interpersonal", Dr. Joel F. Liebman, University of Maryland Baltimore County

Meeting Registration

The dinner buffet will feature tossed garden salad, fresh fruit salad, carved top round of beef, vegetable lasagna, chicken breast with honey Dijon, broccoli polonaise, honey glazed carrots, parsley new potatoes, assorted dinner rolls w/butter, carrot cake, iced tea (unsweetened), coffee, and tea. Dinner price is \$19.00 per person (including social/networking time); \$16.00 for spouses and retired members and \$9.50 for students. You may attend talks without a dinner reservation. Make reservations by Friday, December 11, 1998 by calling Dr. Shirish Shah at Section reservation line 410-532-5712. If you require a special meal (e.g. kosher, vegetarian) please indicate that need to Dr. Shah. Mail checks payable to Maryland Section of the ACS to Dr. Shah at the Department of Chemistry, College of Notre Dame, 4701 Charles Street, Baltimore, Maryland, 21210. Payment at the door will also be accepted. Late reservations will be accepted on a space available basis.

Did you know that the ACS is a Congressionally Chartered Organization?

By a 1937 Act, the American Chemical Society became the only scientific society, with the exception of the National Academy of Sciences, to receive the distinction of being Chartered by the U.S. Congress. According to the Charter, the purpose of the Society is:

- 1) to encourage in the broadest and most liberal manner the advancement of chemistry in all its branches;
- 2) to promote research in chemical science and industry;
- 3) to improve the qualifications and usefulness of chemists through high standards of professional ethics, education, and attainments;
- 4) to increase and diffuse chemical knowledge; and
- 5) by its meeting, professional contacts, reports papers, discussions, and publication, to promote scientific interests and inquiry to foster public welfare and education, aid the development of our country's industries, and add to the material prosperity and happiness of people.

In the past, the Charter has served as a bold statement and guidepost for the American Chemical Society. Today, the Charter remains at the forefront of the Society's operations. In fact, it is the core of the Society's Mission Statement and the foundation for the ACS Strategic Plan: 1998-2000.

"GRASSROOTS '99"

Ask about "GRASSROOTS '99." This is your opportunity to support the "ACS 2001" Membership Campaign that was launched in the spring of 1997 as an aggressive effort to maintain the ACS leadership position as a provider of chemical information, and to offset the aging membership population.

ACS local sections are being urged to participate in "GRASSROOTS '99" not only to support the 2001 Campaign but to develop their own membership base and keep the section strong. Local sections will compete against each other according to size category (large, medium-large, medium, medium-small, and small) by conducting recruitment, retention, and recognition activities during the contest timeframe (September 1, 1998 through April 30, 1999).

Winning sections will be announced at the 1999 ACS Fall National Meeting in New Orleans, LA, and will receive \$1500 as prize money to "put back into their own backyard." Contact your Membership Chair for additional information, or the ACS "GRASSROOTS '99" coordinator, Cheryl Brown, at 800/227-5558 ext. 6022, or with e-mail: c_brown@acs.org.

New in 1999!

The American Chemical Society and the Association of Research Libraries (ARL) are collaborating on the launch of a new journal in organic chemistry. The first issue of *Organic Letters* will debut in July 1999. Each biweekly issue will offer rapid communication of original, concise, and timely reports of significant research in the field. *Organic Letters* will provide ideas, facts, creative approaches and improvement to existing methods in a broad range of organic chemistry research, including bioorganic chemistry.

Organic Letters will be available in both print and as a Web Edition. The Web Edition will include all the benefits and features currently available for other ACS Web Editions. These online enhancements include: Articles ASAP (As Soon As Publishable), Articles on Command, full text searching, links to appropriate databases, categorization of articles by reaction type, and options for experimental details and supporting information. Subscriptions are available to both ACS members and libraries. For more information, call Member & Subscriber Services at 800-333-9511 or 614-447-3776 (outside the U.S.).

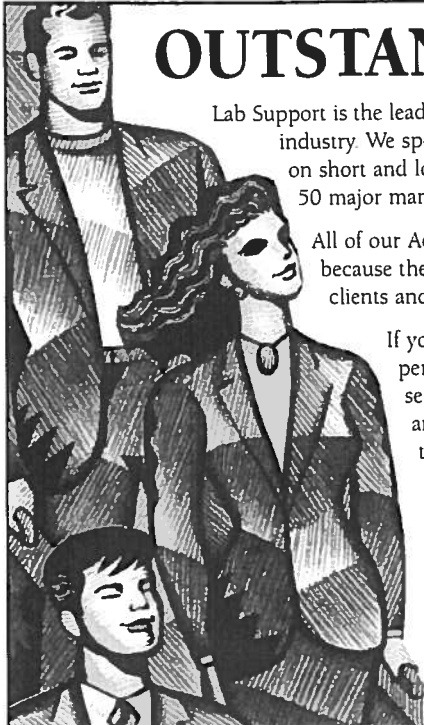
ADVANCES IN SEPARATION SCIENCE

Reserve January 20, 1999 for a special meeting on the title subject. Three concurrent afternoon sessions will be held with multiple talks on each of the subjects of 1) HPLC, 2) GC and 3) Ancillary Separation Tools. These will be followed by a reception, dinner and a lecture on mass spectroscopy by Robert Cotter of the Johns Hopkins Medical School. Location is yet to be determined.

ACS AWARDS

Maryland Section received the 1997 Phoenix Award for overall activities carried out in support of the 10th anniversary of National Chemistry Week. The award was presented at the national ACS meeting in Boston in August.

The Section was nominated for the award in public relations also and received a certificate of excellence for 1997 local activities in general as a runner-up to the St. Louis Section.



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The Younger Chemists Committee Turns Silver!

In celebration of the YCC's 25th Anniversary, special programming and events designed to highlight the achievements of younger chemists will be sponsored at ACS events throughout 1999. In addition to commemorative 25th Anniversary pins, YCC ribbons will be placed on posters contributed by younger chemists at the SciMix events in both Anaheim and New Orleans. YCC is striving to co-sponsor symposia with all of the ACS technical divisions including a special Biotechnology Symposia at the New Orleans meeting. Also in New Orleans, there will be a special reception entitled "Looking Back to the Future." This reception will include a short program where speakers will give perspectives on the past, present and future of the YCC. Visit the YCC web site for more information on these special 25th Anniversary events as the meetings draw nearer, <http://www.chem.hawaii.edu/ycc>. Help make the YCC's 25th Anniversary celebration a big success by planning to attend these special events!

GOVERNMENT AFFAIRS

Jan Kolakowski, Shirish Shah and Frank Milio, accompanied by ACS staff members, visited with the staff of Senator Barbara Mikulski in October to request support of Senate Bill 2217, which dealt with doubling research funding over a period of twelve years. The bill was passed unanimously by the senate.

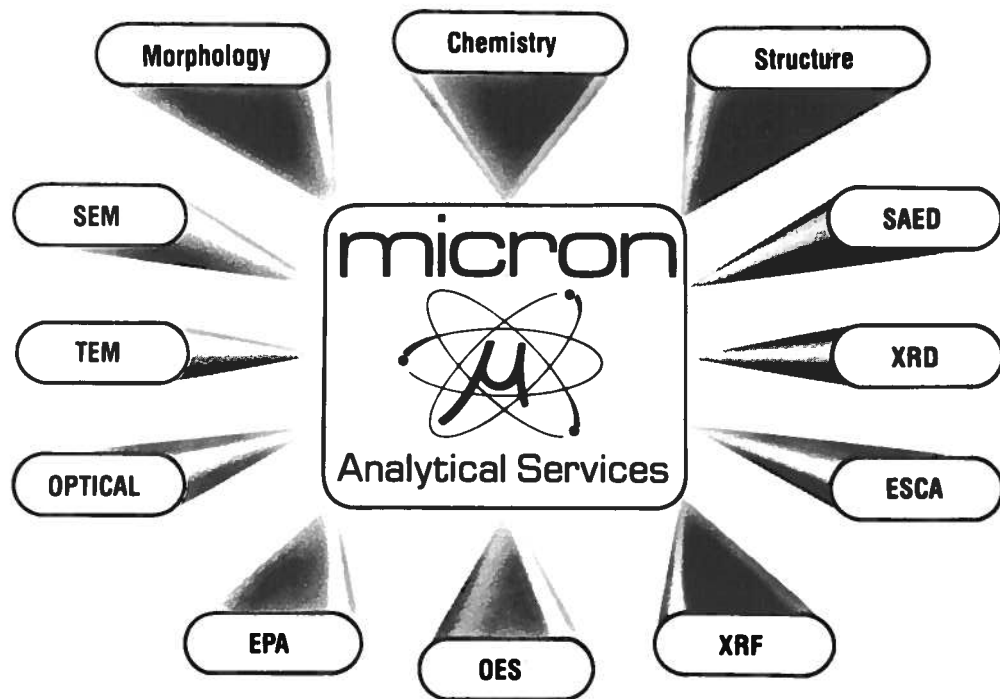
FOREIGN EXCHANGE STUDENTS

Persons interested in opening their hearts and homes to sponsor a foreign exchange student (ages 15-18) are asked to contact Stu Cantor with the AISE (American International Student Exchange) at Stubee2@aol.com or telephone 410-612-1029 (home) after 6 pm.

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The Maryland Section of the American Chemical Society sponsors the

New Traditions Workshop for College/University Faculty

March 12-13, 1999 at Towson University

The free workshop will introduce chemistry faculty to the NSF funded Systemic Reform of Chemistry-New Traditions Project at the University of Wisconsin, Madison. The workshop will focus on the strategies for promoting active learning in the classroom, alignment of course goals and outcomes, assessment and evaluation, writing of concept questions/challenge problems, and development of guided inquiry laboratory experiments.

Look for the registration form in the February Chesapeake Chemist.
For further information, contact L.J. Boucher, Department of Chemistry, Towson University. 410-830-3057, lboucher@towson.edu.