



THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. II

NOVEMBER, 1993

NUMBER 8

NOVEMBER MEETING

DATE AND PLACE:

Wednesday, November 17
Richlin Ballroom
Quality Court
Edgewood, Maryland

Dinner reservations should be made
by mailing checks, payable to
Maryland Section of ACS, to

Dr. Stephen M. Gregory
College of Notre Dame
4701 North Charles Street
Baltimore, MD 21210

SCHEDULE:

6:00 Social Hour
(Cash Bar)

by November 10. Late reservations may
be made by calling

7:00 Dinner
(Door Prizes)

(410) 532-5714

8:30 Natalie Foster
Lehigh University
"Strong Poison -
Chemistry in the
Mysteries of Dorothy
L. Sayers"

by November 12; answering machine is
available at this number.

Dinner price is \$16.00 per person,
but spouses and retired chemists may
attend for \$8.00.

Menu: Chicken Marsala with salad, stuffed baked potato, vegetable medley, deep dish
apple pie a la mode, rolls and coffee.

This meeting is joint with Sigma Xi. It is not necessary to be a member of the
American Chemical Society or Sigma Xi to attend. You may attend the lecture without
attending the dinner.

Directions: From I-95 north take Exit 77A. Bear to the left and at the first light make
a left turn. The sign is visible from here - Quality Court (on top) - Richlin Ballroom (on
bottom). There is adequate parking in the front and rear of the Quality Court.

**STRONG POISON - CHEMISTRY IN THE MYSTERIES OF
DOROTHY L. SAYERS**

CHICAGO COUNCIL MEETING

The Councilors from the Maryland Section, Merle Eiss, Donald Jones, David Roswell, and Chuck Rowell, were all present at the Council meeting held in conjunction with the national ACS meeting in Chicago. The Council meeting was a 3½ hour affair on Wednesday morning and, although it was a relatively short meeting, a number of decisions were reached. They included (in the order on which they were acted) the proposed Bylaw amendments:

passed an amendment to clarify the procedures for taking a recorded vote at Council meetings;

referred a proposed change in the composition of the Board of Directors, to define certain seats for industrial chemists and others for non-industrial ones, to the Council Policy Committee for further study;

voted to approve a change in the allocation provided to *Chemical and Engineering News* from a percentage of the dues to actual reimbursement of the printing and distribution costs of the editorial portion for all members and National Affiliates;

passed the amendment that would put the allocation to Divisions on the same basis as that to the Local Sections, i.e., on an adjustable basis to increase proportionately as ACS dues increase;

accepted a change that would change the due date for reports from Local Sections from February 1 to February 15.

In all cases the Maryland Councilors voted with the majority. These Bylaw changes will become effective after confirmation by the Board of Directors.

In addition to discussing these proposed Bylaw changes, the Council spent considerable time listening to reports by Society officers and Chairs of Committees. One of the more controversial issues was the increase in national meeting registration fees proposed by the Committee on Meetings and Expositions. An increase of \$15 (from \$165 to \$180) was proposed for the meetings in 1994. This increase was finally accepted by the Council but only after significant debate. Registrations have been on the rise (at this Chicago meeting over 13,000 were registered) but expenses keep increasing and the Committee on Meetings and Expositions is mandated to run them on a break-even basis.

Clearly there are a number of activities being sponsored by the Society that are noteworthy. The "outreach" projects that have elicited over 10,000 member volunteers, the year-long program of placing a number of half-page columns in *USA Today*, and the grand opening of the ACS/Smithsonian Exhibit scheduled for April '94 are just three that come readily to mind. *Chemical and Engineering News* will be reporting on these and other projects as they occur and we urge you to stay abreast of the developments and support both the Society and the Maryland Section.

Respectfully submitted for the Maryland Councilors,

David F. Roswell

ACS CONGRESSIONAL FELLOWSHIP

The ACS Congressional Fellowship Program places a person with a science background in a congressional office. The ACS funds a stipend for the fellow, but additional sources of funding may be acceptable. The 1994-1995 stipend is \$42,000. The next fellow to be selected will begin work in September of 1994.

The deadline for application for this fellowship is January 1, 1994. For further information, contact Bill Gray at the ACS Department of Government Relations and Science Policy, 1155 Sixteenth St. NW, Washington, D.C. 20036; phone (202) 872-4467.



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NATALIE FOSTER

Natalie Foster is an Associate Professor of Chemistry at Lehigh University in Bethlehem, PA. She completed her doctoral degree at Lehigh in 1982 and was a visiting scientist at the University of Utah in 1984, studying relaxation phenomenon in NMR. Her major area of research interest is the study of intermolecular interactions between candidate diagnostic and therapeutic agents and biopolymers. Much of her work has involved assessing porphyrins as agents for combating malignancy. Natalie is active in the American Chemical Society, serving as a councilor from her local section and on the Committee for Nominations and Elections nationally. In addition to her scientific pursuits, she also enjoys travel, good food and wine, reading mysteries, and is a fan of Winston Churchill, Abraham Lincoln and Jean Luc Picard.

STRONG POISON: CHEMISTRY IN THE MYSTERIES OF DOROTHY L. SAYERS

Dorothy L. Sayers (1893-1957) has made an indelible mark in three literary spheres: theological works, translations of classics, and detective fiction. Although she was not trained as a scientist (she graduated from Somerville in 1915 with Class I honors in French), her mysteries are laced with fact and opinion on the science of the 1920s and 1930s. Decidedly the most chemically oriented of her novels was one written in collaboration with Dr. Robert Eustace in 1930 entitled *The Documents in the Case*. The resolution of this superbly crafted tale of death hinges on a fine point of stereochemistry involving the laboratory synthesis of the poisonous component in the mushroom *Amanita muscaria*.

Other novels and short stories, many featuring Lord Peter Wimsey, deal with topics from the realm of medicinal chemistry: a physician cleverly poisons an elderly patient with his own medicine; a cruel husband deliberately withholds medicine from his wife who suffers from a debilitating but controllable deficiency disease; a devious fellow conveniently develops a tolerance to arsenic. The scientific content of these masterfully executed stories of crime and detection is reviewed and grades will be issued.

EAS AWARDS

Eastern Analytical Symposium is proud to announce the following winners of EAS Awards.

1. Dr. James N. Shoolery, Palo Alto, California, is the recipient of the 1993 EAS award in Magnetic Resonance.
2. Dr. Peter Carr, University of Minnesota, is the recipient of the 1993 EAS award for Achievements in Analytical Chemistry.
3. Dr. E. H. Baughman, Amoco Corporation, Naperville, IL, is the recipient of the 1993 EAS award in Near Infrared Spectroscopy.
4. Dr. J. J. Kirkland, Rockland Technologies, Inc., Newport, DE, is the recipient of the 1993 EAS award in Separation Science.

American Microchemical Society, a sponsor of the Eastern Analytical Symposium selected Prof. Peter C. Uden, of the University of Massachusetts, as the recipient of its 1993 Benedetti-Pichler Memorial Award.

New York Section of the Society for Applied Spectroscopy, a sponsor of the Eastern Analytical Symposium selected Prof. Michael Morris, of the University of Michigan, as the recipient of the 1993 Medal Award.

The above awards will be presented during symposia honoring these awardees at the 1993 EAS Symposium in Somerset, NJ, Nov. 15-19, 1993.

UNIVERSITY OF MARYLAND HOSTS CHEMATHON

The Eighth Annual Chemathon was hosted by the University of Maryland at College Park Department of Chemistry and Biochemistry on Saturday, May 9 from 8 a.m. to 1:15 p.m. in the Chemistry Building on campus.

The Chemathon is a spirited competition in which teams of high school students from Maryland, Virginia and Washington, DC test their laboratory skills and knowledge of chemical theory.

The Chemathon is organized and was originally conceived by a group of Maryland high school chemistry teachers. It includes a variety of events to test the students' chemical knowledge.

In the "Mendeleev Madness" event, teams will answer questions about the periodic table of elements. In "Battering the Gases," students will compete with batteries they have built to see which one provides the most power. Other events include, "Make my [Fara]day," "Chemical Jeopardy," and "Hydronium Hyjinks."

Because the events are for fun, students who compete do not necessarily have to be at the top of their class in lecture or laboratory chemistry.

There will be two competitive tracks, one for first-year and another for second-year chemistry students. A school may enter one team at each level. Each team is composed of a maximum of six students who are accompanied by a chemistry teacher.

Area high school and university chemistry teachers judge the Chemathon events. Awards are given to the first, second and third place teams in each event and the overall first, second and third place teams.

UNILEVER AWARD

Unilever sponsors an award recognizing a graduate student or recent graduate whose Ph.D. thesis in polymer research has been accepted by a U.S. or Canadian university during the period 1991-1993.

The award, to be presented at the ACS national meeting in the fall of 1994 in Washington, D.C., consists of a \$2,000 prize, a plaque and travel expenses to the meeting.

Nominations must be postmarked no later than January 15, 1994. Nominating information can be obtained from Prof. J. A. Moore, Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180-3590.

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The Johns Hopkins University

1993 Fall Chemistry Colloquium Schedule

Remsen 233, Tuesdays, 4:15 p.m.
For more information contact Rosalie Elder (410) 516-7432

November 9	Prof. Elliot R. Bernstein Colorado State University	"Molecular Rydberg States: Solvation and Reactivity"
November 16	Prof. James M. Tour University of South Carolina	"Synthesis of Conjugated Oligomers and Polymers for Electronic Applications"
November 23	Prof. Jeffrey W. Kelly Texas A&M	"Strategies for Controlling the Folding and Self-Association of β -sheets in Aqueous Solution"
November 30	Prof. William H. Orme-Johnson Massachusetts Institute of Technology	"On the Mechanism of Nitrogen Fixation of Nitrogenase"
December 7	Prof. P. Leslie Dutton University of Pennsylvania	"Biological Charge Separation: Design, Engineering and Construction of Electron Transfer Proteins"

MARYLAND SECTION FUTURE MEETINGS

December 15, 1993	Maryland Chemist Award UMBC
February 9, 1994	Dr. Richard Doty, University of Pennsylvania Taste and Smell Clinic, speaking on taste and smell, Goucher College.
March 9, 1994	Dr. Suzanne Lomax, National Gallery of Art, "The Application of Chemistry to the Examination of Works of Art". Venue not set.
April 20, 1994	Dr. Ned Heindel, ACS President, "Science in the Smithsonian" at Western Maryland College; Student Awards Night.
May 11, 1994	Remsen Award Meeting at The Johns Hopkins University.

FIFTY YEAR MEMBERS

The American Chemical Society has announced the names of new fifty year members of the Society who are members of the Maryland Section. The Section has invited them to be its guests and to be recognized at a Section meeting. The new fifty year members are:

from Frederick, George G. Kleinspehn;

from Chestertown, Robert L. Bryan and Richard K. Eberts;

from Bel Air, Robert D. Kracke;

from Baltimore (city and county), Joseph Epstein, Jerome Goldenson, Bernard J. Jandorf, Leonard A. Jonas, Abraham Koblin, Walter S. Koski, William Edward Waxer, Bernard M. Zeffert.

University of Maryland Baltimore County Department of Chemistry and Biochemistry

NOVEMBER 1993 SEMINAR SCHEDULE

November 2	Dr. Earl Wehry	"Trace Analysis by Laser-Induced Molecular Fluorescence Spectroscopy"
November 9	Dr. Michael Hayden Dept. of Physics UMBC	"Nonlinear Optical Studies of Macromolecular Photonic Materials"
November 16	Dr. Bruce Krueger Dept. of Physiology UMAB	"Structure and Function of Voltage-Dependent Na ⁺ Channels in Artificial Bilayers"
November 30	Dr. Bruce Fowler Toxicology Program UMAB	"Comparative Biochemical Studies of Lead Binding Proteins"

Seminars take place at 3:30 PM in Room 403, Biological Sciences Building. For additional information, please contact Dr. George Murray at (410) 455-2190 or Dr. Aris Kalivretenos at (410) 455-2516.

POLYED AWARD

POLYED, the joint education committee of the ACS divisions of Polymer Chemistry and Polymeric Materials: Science and Engineering, has announced that William Bleam, Jr., of Radnor High School, Radnor, Pennsylvania, is the recipient of its 1993 Award for Excellence in Polymer Education by a High School or Junior High Science Teacher. Recipients receive a cash award, a set of polymer chemistry materials for use in the classroom and a certificate of recognition.

One example of Bleam's work which has impacted science education across the United States is the *Petroleum: to Build or to Burn?* unit which he co-authored for the ACS's CHEMCOM text.

Applications for the 1994 award, which will be accepted until January 31, 1994, are now available from Polymer Education Coordinator, Miami University - Middletown, 4200 East University Boulevard, Middletown, Ohio 45042.

28TH MARM

May 25 - 27

Baltimore 1994

Many

Attractions

Rich

Memories

Baltimore Attractions

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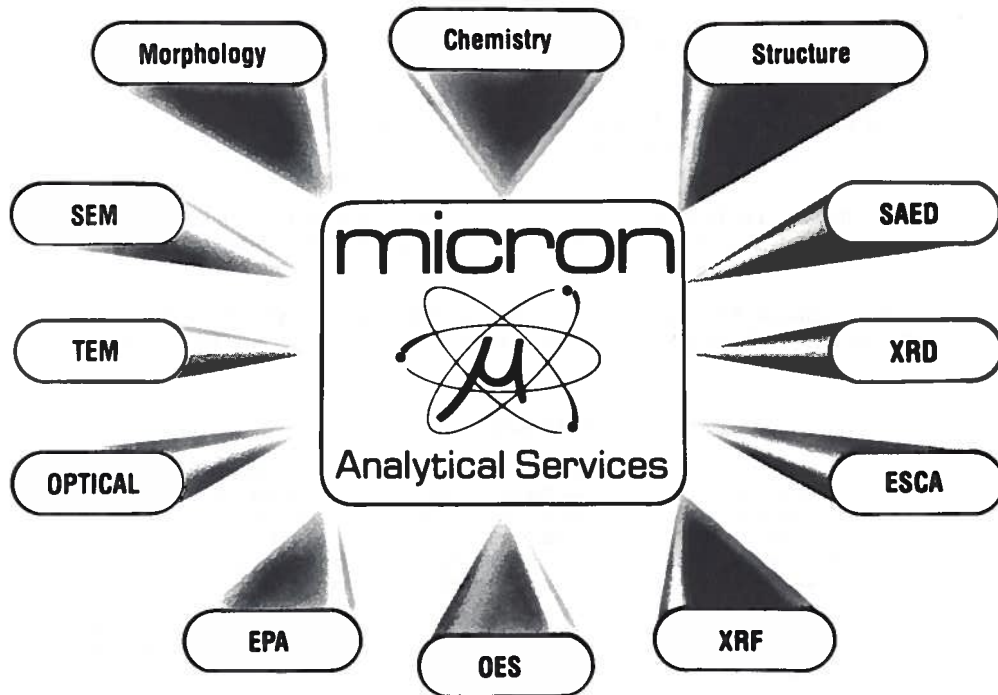
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