



THE **CHESAPEAKE
CHEMIST**

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XLVI

SEPTEMBER, 1990

NUMBER 6



SOLOMON H. SNYDER

Conference on Capillary Electrophoresis

October 15 - 16, 1990

NCI-Frederick Cancer Research and Development Center
Frederick, Maryland

The focus of this meeting is the scientific exchange and dissemination of the technical aspects of *Capillary Electrophoresis*. We invite discussion of established methodologies as well as creative and innovative new approaches and techniques. The format will include workshops, oral and poster presentations by individual conference participants, and optional enrollment in a definitive CE course. Invited speakers will provide expert overviews of the basic aspects and applications of CE including, but not limited to, instrument and column design, detection, the role of the buffer and factors that influence mobility, selectivity, resolution and optimization. Also, the application of CE to the separation of small ions as well as large biomolecules will be presented and discussed.

We anticipate a relaxed and friendly atmosphere in facilities designed for optimal meeting participation and management. There is **no registration fee**; however, registration is mandatory to ensure participation. A nominal fee of \$50.00 will be charged for participation in the CE course. State-of-the-art equipment displays and literature will be made available to participants by the leading manufacturers of CE instrumentation. We invite your participation.

For further information on registration, abstract submittal, and course participation, please contact

Margaret L. Fanning
Conference Coordinator, PRI
NCI-FCRDC
P.O. Box B
Frederick, Maryland 21701

301-698-1089 FAX 301-698-5866

Sponsored by the Chemical Synthesis and Analysis Laboratory, Program Resources, Inc., NCI-FCRDC. Partial support has been obtained from manufacturers and suppliers of CE instrumentation.

EXECUTIVE COMMITTEE MEETING

The Executive Committee of the Maryland Section of the ACS will meet at 7:30 p.m. on Wednesday, September 12 in the reading room in Knott Science Center at the College of Notre Dame.



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Solomon H. Snyder received his medical training at Georgetown University and his psychiatric training at Johns Hopkins University. He obtained research experience in the laboratory of Julius Axelrod at the National Institute of Mental Health. Beginning in 1966 he joined the faculty of Johns Hopkins Medical School in the Pharmacology Department. Presently he is Director of the Department of Neuroscience and Distinguished Service Professor of Neuroscience, Pharmacology and Psychiatry at Johns Hopkins. Professor Snyder is the recipient of numerous honors including the Albert Lasker Award for Basic Biomedical Research (1976), Honorary Doctor of Science degrees from Northwestern University (1981) and Georgetown University (1986), the Wolf Foundation Prize for Medicine (1982), and the Dickson Prize of the University of Pittsburgh (1983). He is a member of the United States National Academy of Sciences and a Fellow of the American Academy of Arts and Sciences. He is the author of numerous journal articles and several books including *Uses of Marijuana* (1971), *Madness and the Brain* (1974), *The Troubled Mind* (1976), *Biological Aspects of Abnormal Behavior* (1980), *Drugs and the Brain* (1986), and *Brainstorming* (1989).

EASTERN ANALYTICAL SYMPOSIUM 1990 AWARDEES

The Eastern Analytical Symposium is proud to announce the following names of the 1990 EAS awardee in Near-Infrared Spectroscopy, 1990 NY SAS of ACS awardee in Spectroscopy, and American Microchemical Society awardee of 1990 Benedetti-Pichler Memorial Award in Microchemistry. These awards will be presented at special awards symposia to honor these recipients at the 29th EAS Symposium which will be held on November 12-16th, 1990 in Somerset, NJ.

Dr. Donald Burns, Los Alamos National Laboratory, Los Alamos, NM is the 1990 recipient of the Eastern Analytical Symposium Award for the Achievements in Near-Infrared Spectroscopy.

Dr. Bruce Chase, Central Research Department, E.I. duPont de Nemours, is the recipient of the 1990 NY ACS SAS Section Medal.

Prof. Peter W. Carr, Professor of Chemistry, Department of Chemistry, University of Minnesota, Minneapolis, MN is the recipient of the American Microchemical Society Benedetti-Pichler Memorial Award in Microchemistry.

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FUTURE MEETINGS

Chairman-elect (and program chairman) Joe DeFrank has announced two future meetings:

October 17
W. R. Grace Research Center
Mark A. McHugh
Johns Hopkins University
"Supercritical Fluid Extraction:
Fact and Fiction"

November 14
Aberdeen Proving Ground
Aberdeen Area Officers' Club
Norman F. Ness
Bartol Research Institute
University of Delaware
"Voyagers' Grand Tour to Jupiter,
Saturn, Uranus and Neptune"

SEPTEMBER MEETING

DATE & PLACE:

Tuesday, September 18, 1990
Nova Pharmaceutical Corp.

SCHEDULE:

6:00 pm Social Hour
7:00 pm Dinner
8:00 pm Lecture

SPEAKER & TOPIC:

Solomon H. Snyder
Johns Hopkins Medical School
"Neural Receptors and Second
Messengers: New Perspectives"

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

Ms. Menyan Cheng
Nova Pharmaceutical Corp.
6200 Freeport Center
Baltimore, MD 21224

by September 11. Late reservations may be made by calling (301) 563-6183 by September 13. An answering machine is available at this number.

Dinner price is \$14.00 per person, but spouses, retired chemists and students may attend for \$12.00.

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

Directions: Nova Pharmaceutical Corporation is located at the intersection of Broening Highway and Holabird Avenue, directly across from the General Motors plant. Access to the building is from inside the Holabird Industrial Park, the entrance to which is on Holabird Avenue between Broening Highway and Dundalk Avenue.

POLYMER AWARD WINNERS ANNOUNCED

The Joint Polymer Education Committee (PolyEd) of the American Chemical Society, Polymer Chemistry Division and Polymeric Materials: Science and Engineering Division has named the recipients of the 1990 Award for Excellence in Polymer Education by a High School Chemistry Teacher. Two National Award recipients and three Honorable Mention recipients will be honored at their respective schools.

The award recognizes the outstanding efforts of high school chemistry teachers who educate youth to be informed citizens and to consider careers in chemistry. Awards are based on applicants' innovative use of classroom and laboratory activities to promote understanding of polymer chemistry and its role in the products students use daily and on applicants' outreach activities to encourage other teachers to explore polymer chemistry with their students.

This year's National Award winners are Ronald Crampton of Westside High School in Omaha, Nebraska and Melanie Horner of Stow-Munroe Falls High School in Stow, Ohio. Honorable mention recipients are Diane Gerlach of Tremper High School in Kenosha, Wisconsin, Robert Shaner of South Side Area High School in Hookstown, Pennsylvania and Allan Stenmark, of Oak Creek High School in Oak Creek, Wisconsin.

All active High School teachers who include polymer chemistry in their curriculum and encourage others to do the same are invited to apply for the 1991 Award for Excellence in Polymer Education by a High School Chemistry Teacher. Deadline for application is January 15, 1991. Applications can be obtained by writing to A. M. Sarquis, PolyEd High School Teacher Polymer Awards, Miami University Middletown, Department of Chemistry, 4200 East University Blvd., Middletown, OH 45042

OSHA PUBLISHES FINAL LABORATORY STANDARD

A new occupational safety and health final rule designed especially with the needs of laboratory personnel in mind has been published by the Occupational Safety and Health Administration (55 FR January 31, 1990, pp.3300-3335). *Occupational Exposure to Hazardous Chemicals in Laboratories* is a generic, performance-based standard, emphasizing safe handling and use of hazardous chemicals through procedures established by each employer. The effective date of the standard is May 1, 1990 with a deadline of January 31, 1991 for development and implementation of a written Chemical Hygiene Plan. The following is a summary of each major section of the rule.

Scope and Application. The standard applies to every laboratory that meets the definition of "laboratory scale" and "laboratory use of hazardous chemicals" as defined in the rule. There are no blanket exemptions for certain types of laboratories, and the standard supersedes all other OSHA health standards in 29 CFR 1910, Subpart Z except for the requirement to maintain employee exposure below permissible exposure limits.

Chemical Hygiene Plan. The basic requirement of the standard is for employers to establish a written Chemical Hygiene Plan (CHP) that outlines specific work practices and procedures that ensure employee protection from health hazards associated with hazardous chemicals. The National Research Council's *Recommendations Concerning Chemical Hygiene in Laboratories* is offered in an appendix to the standard as a non-mandatory guidance document for the development of an acceptable and effective CHP. The Plan must include provisions for additional protection for work with select carcinogens, reproductive toxins, and substances with a high degree of acute toxicity. These provisions include establishment of a designated area, use of containment devices, procedures for safe removal of wastes, and decontamination procedures.

Information and Training Requirements. OSHA has included information and training requirements that closely mirror those found in the Hazard Communication Standard. Employees must be informed about the requirements of this Standard, the location and content of the CHP, the exposure limits for chemicals with which they work, and where to find reference materials. In addition, employers must train their workers on methods to detect the presence of hazardous chemicals and how to protect themselves from such hazards, both physical and chemical.

Medical Consultation and Medical Exams. If an action level has been exceeded, if an employee exhibits signs of an overexposure to a hazardous chemical, or if a spill or leak occurs, then employees shall be provided the opportunity to receive medical attention, including follow-up exams.

In developing the standard, OSHA relied heavily on information obtained from the ACS Task Force on Occupational Health and Safety's survey of *Laboratory*

Practices and Policies for Employee Protection from Exposure to Hazardous Chemicals. The findings of this survey supported the argument that academic, industrial, and other laboratories are distinctly different from manufacturing environments and, therefore, should have a separate toxic chemicals policy. The ACS Task Force will continue its involvement with the *Lab Standard* in 1990 by publishing a booklet explaining the details of the standard. In addition, the ACS Department of Government Relations and Science Policy will sponsor workshops on implementing the Lab Standard. The workshops will be held during the ACS Fall National Meeting in Washington, D.C. and during the ACS Western Regional Meeting in San Francisco, California October 31-November 2, 1990. For more information, contact Ms. Jean A. Parr, Office of Legislative and Regulatory Programs, ACS Department of Government Relations and Science Policy, 1155 16th Street, NW, Washington, D.C. 20036, 202/872-4395.

COUNCIL OF THE AMERICAN CHEMICAL SOCIETY

The Council of the American Chemical Society met April 25th from 8:00 a.m. until 11:30 during the course of the 199th meeting of the Society in Boston, Massachusetts. The Maryland Section was represented by Councilors Merle I. Eiss, Donald E. Jones and David F. Roswell, as well as alternate councilor Timothy J. McNeese. As almost its first order of business, the Council selected as nominees for the 1991 presidential election Ernest L. Eliel, from the University of North Carolina and Eli M. Pearce, who is at the Polytechnic University in Brooklyn, New York. They will now stand for election by the entire society.

Reports from the officers indicate that the ACS is in good condition with 140,000 members, total revenues during the past year of \$169MM and a balanced budget with a surplus of \$6.1MM. Obviously the bulk of the revenues and the surplus are all generated by the publications department -- including *Chemical Abstracts*.


Proposals on dues incentive for new members as well as those involving dues set on the basis of annual income were referred to the Committee on Constitution and By-Laws for further work and presentation at a meeting next spring. During the discussion it became clear from straw votes that the majority of Council were opposed to any major modification in the dues structure. In fact, 233 of the 335 Councilors voting were in favor of maintaining the status quo. After agreement to raise the dues next year by \$4 to \$86 following a zero increase the prior year, the rest of the meeting was rather uneventful and dealt with house-cleaning items. There were proposals to change the way members are enrolled in divisions and there were some reapportionings of local sections. Both of these involve some by-law changes. Reports from many of the committees followed but were generally non-controversial.

Respectfully submitted, *David Roswell*

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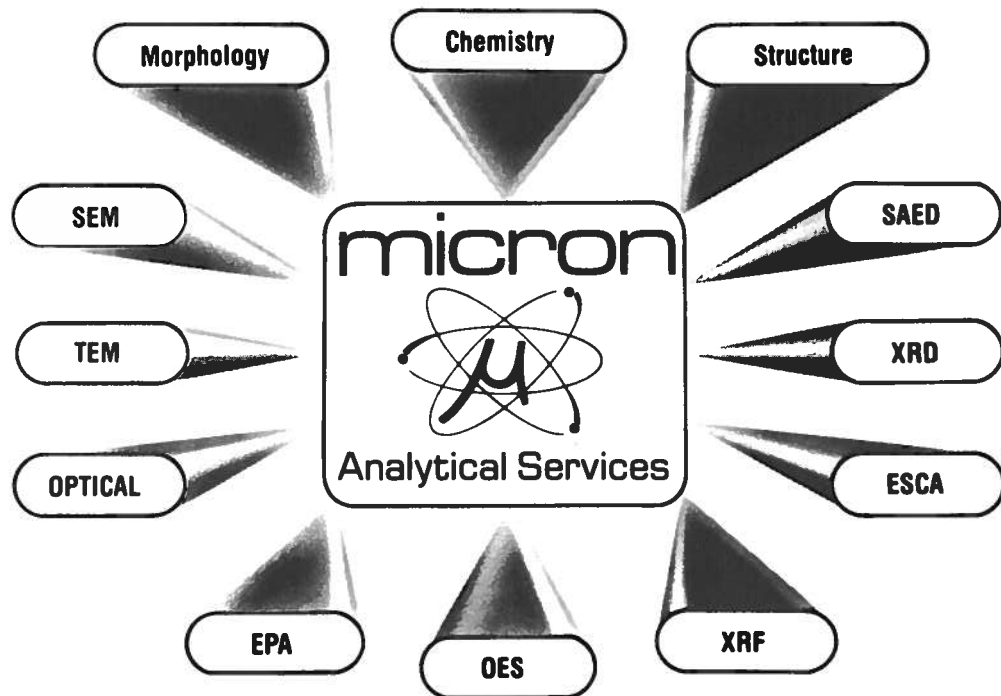
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