



THE

CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. LIV

NOVEMBER, 1998

NUMBER 8

*Maryland Section
American Chemical Society*

joint with

Sigma Xi

*November Monthly Meeting
Wednesday, November 18, 1998
Richlin Ballroom, Comfort Inn
Edgewood, Maryland*

6:00 pm *Social/Networking Hour (Cash bar)*

7:00 pm *Dinner*

8:15 pm *"Applied Meteorological and Oceanographic Research",
Dr. C. Reid Nichols, Neptune Sciences, Incorporated*

Meeting Registration

Dinner will feature chicken marsala, flounder almonadine, garden fresh tossed salad, parslid new potatoes, vegetable medley, apple pie a la mode and beverages. . Dinner price is \$20.00 per person (including social/networking time); \$18.00 for spouses and retired members and \$10.00 for students. You may attend Dr. Reid's talk without a dinner reservation. Make reservations by Friday, November 13, 1998 by calling Dr. Shirish Shah at the 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.

Directions

Take Exit 77A off I-95 and proceed south on MD Rt. 24 toward Edgewood. At the first traffic light turn left onto Van Bibber Road. The Richlin Ballroom and the Comfort Inn will be on the left.

ACS Science Policy Fellowship



Apply Now

The Fellowship offers a unique opportunity for a scientist or engineer to join ACS and

- gain first-hand knowledge of the operation of the legislative and executive branches of the federal government,
- develop nonpartisan Capitol Hill briefings and assist ACS committees in their work,
- complete a special science policy project for presentation.

The Fellowship is for one or two years. The Fellow receives an annual salary in the low \$40Ks with an ACS benefits package, as well as a relocation allowance. ACS members at any point in their careers may apply. A Ph.D. is not a requirement.



Applications are due **January 8, 1999**. For more information and instructions on how to apply, please contact Deitra L. Jackson (202) 452-8917, e-mail: d_jackson@acs.org, or write ACS Office of Legislative and Government Affairs, 1155 Sixteenth Street, N.W., Washington, D.C. 20036.

CAREERS IN INDUSTRY AND GRADUATE WORK BROCHURES AVAILABLE

The ACS Committee on Professional Training (CPT) has two brochures available for undergraduates. One is *Planning for a Career in Industry*. Prepared by CPT with the ACS Committee on Corporation Associates, this brochure is designed to provide advice for undergraduate chemistry students who plan to enter the work force upon graduation. It includes suggestions about curriculum planning as well as a broader discussion about career options and opportunities. The brochure concludes with a bibliography of resources on career planning available to undergraduates and their advisors.

The other brochure is the sixth edition of *Planning for Graduate Work in Chemistry*. Written for anyone considering graduate work in chemistry or chemically related disciplines. It offers suggestions on the preparation, selection, and application process for graduate school.

Requests for copies (free of charge) may be made by letter to the Office of Professional Training, 1155 Sixteenth St., NW, Washington, DC 20036, by e-mail to cpt@acs.org, or by phone to (202) 872-4589. These brochures are also accessible via the World Wide Web: <http://www.acs.org/cpt/hp.htm>.

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C. Reid Nichols, Ph.D.
Neptune Sciences Incorporated

"Applied Meteorological and Oceanographic Research"

Daily meteorological and oceanographic data are needed for many applications such as design of coastal structures, studies in watershed hydrology, determination of evaporation, assessment of the fate of pollutants, and execution of coupled atmospheric and oceanographic models. Many applications require long term environmental data sets to account for temporal and spatially variable processes impacting human activities. These data may include total solar radiation, air properties such as temperature, rainfall, wind, waves, currents, and water properties such as salinity. In many coastal areas, such data as either incomplete or not readily available. Records may be of insufficient length, or only local "fisherman knowledge" may exist.

Applied research and development is focused on filling data gaps and forecasting processes by exploiting available information, theory, and computer models. Neptune Sciences, Inc. has recently worked with the academic community and DoD to determine nearshore winds, waves, and currents from climatological data to support capital projects. Successful oceanographic projects often employ an interdisciplinary approach to solving technical problems for the community. For example, scientists and engineers at Nauticos, LLC. recently equipped researchers to investigate the "rusticles" that cover much of Titanic's wreck. Applied oceanographic research continues to receive public support because of its vital role in global economies, environmental health, and maritime safety.

The United Nations has designated 1998 as the International Year of the Ocean in order to direct attention on actions needed to ensure stability of this resource. Themes and programs are planned to encourage public and private sectors to work together to promote conservation, exploration, and sustainable use of the ocean. Toward this end, the Marine Technology Society is hosting an Ocean Community Conference '98, to be held from November 16 to 19, 1998 at the Baltimore Convention Center in Baltimore, Maryland. Research efforts and discussion papers on a variety of topics and issues will be presented.

About the Speaker....

Reid Nichols is an applied oceanographer working out of Reston with Neptune Sciences, Inc. His recent projects involve environmental characterization for DoD's Advanced Amphibious Assault and Explosive Net programs. Prior to work with NSI, Reid served for five years as a physical oceanographer with the National Ocean Service. He has written several conference proceedings, technical reports for NOAA and NRL, and articles for Journal of Coastal Research and U.S. Naval Institute's PROCEEDINGS Magazine. He teaches Introductory Physical Oceanography at Towson University.

ULLYOT SCHOLARSHIP APPLICATIONS

The Chemical Heritage Foundation (CHF) invites applications for the Glenn E. and Barbara Hodson Ulliot Scholarship. The goal of the Ulliot Scholarship is to advance public understanding of the importance of the chemical sciences to the public welfare.

The scholarship, to be awarded for the summer of 1999, offers a stipend of \$3,500 plus modest travel and research support. The scholar will spend a minimum of two months in residence at CHF, conducting research on the heritage of the chemical sciences using the resources of CHF's Othmer Library of Chemical History in Philadelphia, among other resources.

Application deadline is February 15, 1999. Further information can be obtained from Leo Slater, Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106-2702. Phone (215) 925-2222, ext 224; fax (215) 925-1954; e-mail: lslater@chemheritage.org

EAS AWARDS ANNOUNCED

The Eastern Analytical Symposium announces the winners of the 1998 EAS Awards. The awards will be presented during the Eastern Analytical Symposium to be held in Somerset, NJ, November 15-20, 1998.

Analytical Chemistry Division of ACS Young Investigator Award
Robert T. Kennedy, University of Florida

EAS Award for Achievements in Separation Science
Sponsored by Waters Corporation
William H. Pirkle, University of Illinois - Champaign-Urbana

EAS Award for Achievements in Near-infrared Spectroscopy
Sponsored by Foss NIRSystems
Franklin E. Barton, II, U. S. Department of Agriculture

EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry
Edward S. Yeung, Iowa State University

American Microchemical Society Benedetti-Pichler Award
Prunendu K. Dasgupta, Texas Tech University

New York Section of the Society for Applied Spectroscopy Gold Medal Award
Alan G. Marshall, Florida State University

Galactic Industries Award for Achievements in Chemometrics
Presented by EAS
Edmund R. Malinowski, Stevens Institute of Technology

New York Microscopical Society Ernst Abbe' Award
Johan Sebastiaan Ploem, Leiden University

EAS Award for Achievements in Magnetic Resonance
Michael F. Summers, University of Maryland - Baltimore County

MICHAEL F. SUMMERS

Michael Summers received a B.S. in chemistry from the University of West Florida in 1980 and a Ph.D. from Emory University in 1984. He was a post-doctoral fellow at NIH from 1984 to 1987, when he joined the faculty at UMBC.

His research focuses on NMR studies of proteins and macromolecular interactions, with a major emphasis on the structural proteins that comprise the human immunodeficiency virus (HIV-1). Dr. Summers presented the featured lecture at the February, 1997 meeting of the Maryland Section.

SCHOLARS IN CHEMICAL EDUCATION APPLICATIONS

Applications are invited for two Chemical Heritage Foundation Scholars in Chemical Education positions for the 1999-2000 academic year. These scholars will spend the year in residence at the CHF in Philadelphia and will develop new classroom materials emphasizing the human perspective of science as well as its history and impact.

Application deadline is December 1, 1998. Applicants must be tenured faculty who teach "science and society" or similar courses to non-major undergraduates. Additional information can be obtained from Leo Slater, Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106-2702. Phone (215) 925-2222, ext 224; fax (215) 925-1954; e-mail: lslater@chemheritage.org

E-MAIL ADDRESSES

Members who wish to be included on the Section e-mail address list to receive notification about events and Society matters should send their e-mail addresses to Diane Schmit at DMS@VM.CFSAN.FDA.GOV. Put "ACS e-mail list" in the subject line.

The Johns Hopkins University 1998 Fall Chemistry Colloquium Schedule

Remsen Hall 233 – Tuesdays, 4:15 pm

For more information contact Rosalie Elder, 410-516-7432

October 20	Professor Paul Barbara University of Texas	"Energy and Electron Transfer in Organic Functional Materials and Biological Molecules"
November 10	Professor P. Andrew Evans University of Delaware	"Exploring New Reactivity for Expeditious Synthesis of Biologically Important Natural Products"
November 17	Professor F. Fleming Crim University of Wisconsin	"Controlling Chemical Reactions and Watching Energy Flow in Vibrationally Excited Molecules"
November 18 Wednesday	Professor Robert Redmond Harvard University	"Photochemical Damage to DNA in Cells"
December 8	Professor Roger E. Miller University of North Carolina	"Chemistry (and Biochemistry) Near Absolute Zero: Laser Spectroscopy as a Probe of Molecular Dynamics"



Anna Kraut holds forth at a training session for Kids & Chemistry volunteers. Kids & Chemistry programs are proving very popular wherever they are held.


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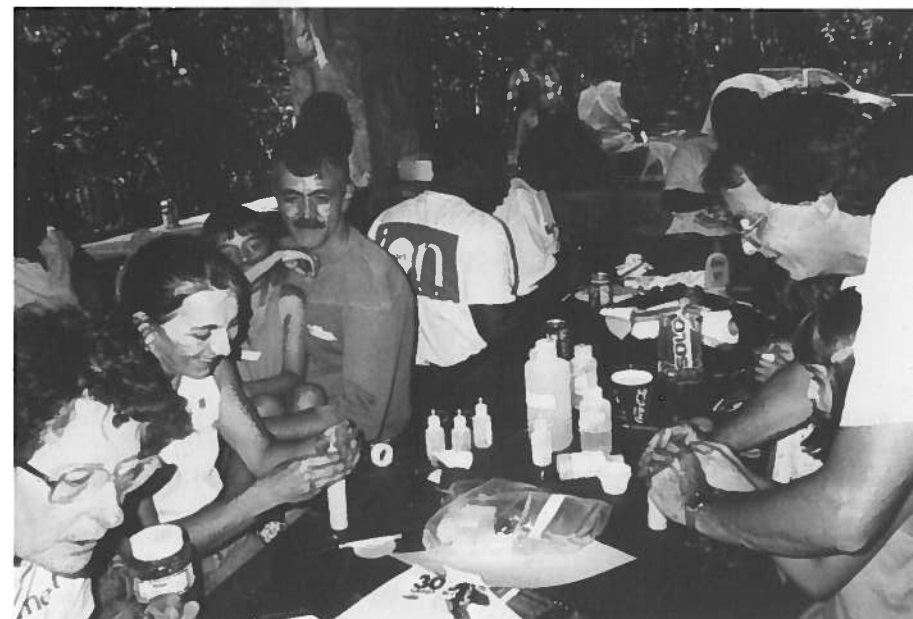
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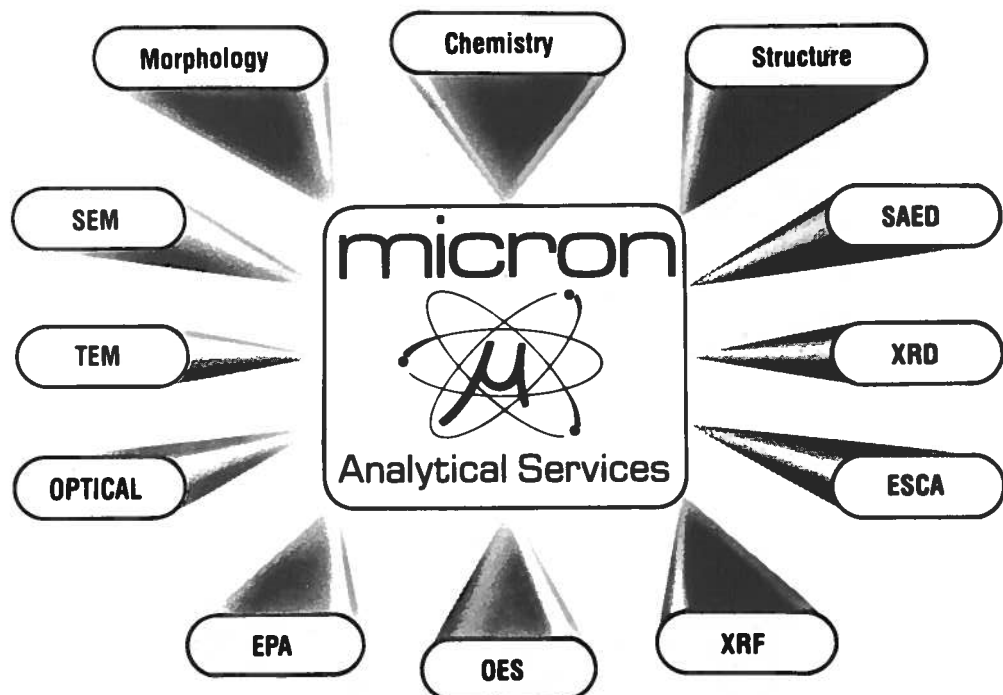


Kids & Chemistry scene at the summer picnic. This picnic, joint with the Chemical Society of Washington, was well attended at its new location in Patapsco Park (the McKeldin Area).

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MARYLAND SECTION FIFTY YEAR MEMBERS 1998

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Mr. John William Gryder Baltimore	Mr. Rudolph James Redd Baltimore	Mr. Dorr Eugene Tippens Gibson Island
Dr. John C. Lorenz Millington	Dr. R. B. Ross Middletown	Mr. Richard S. Zucker Ellicott City

The new 50-year members were recognized and honored at a luncheon at Belmont on May 15. The program, organized by Alvin Bober, Elwin Penski and Ernest Silversmith, proved to be a most enjoyable affair.