



THE DAYTON SECTION

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BULLETIN

January-February, 1998

"Mass Spectrometry at the Naval Research Laboratory: From Buckyballs to Submarines"

Wright State University
Thursday, January 22, 1998



"Successful Volunteer Programs that Enhance the Image of Chemistry in the Community"

Wright State University
Tuesday, February 10, 1998

AMERICAN CHEMICAL SOCIETY

Dayton Section

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DATED MATERIAL -- MEETING ANNOUNCEMENT -- DO NOT DELAY

SECTION MEETINGS . . .

January

- Date:** Thursday, January 22, 1998
- Place:** 116 Health Sciences Building
Wright State University
- Agenda:** 6:00 PM — Social
6:30 PM — Speaker
- Speaker:** Dr. Stephen McElvany
Naval Research Laboratory
Washington, DC
- Topic:** *"Mass Spectrometry at the Naval Research Laboratory: From Buckyballs to Submarines"*
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February

- Date:** Tuesday, February 10, 1998
- Place:** 340 Oelman Hall
Wright State University
- Agenda:** 6:00 PM — Social
6:30 PM — Speaker
- Speaker:** Dr. Michael Kenney
American Chemical Society Tour Speaker
- Topic:** *"Successful Volunteer Programs that Enhance the Image of Chemistry in the Community"*
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Career Exploration Weekend

The Affiliate Societies Council, of which the Dayton Section of the ACS is a member, is sponsoring a Career Exploration Weekend at the Dayton Museum of Natural History on February 7 and 8, 1998. The event is designed for students in grades 5 through 12 and their parents who want to learn more about careers in engineering, science, and math. It is a great opportunity for children and their parents to meet professionals and learn about the work that they do. Groups from the Dayton Section have supported this event for the last several years. If you or your organization would like to participate in this event, please contact Debbie Gill at the Dayton Museum of Natural History at 275-7431 for more information.

NATIONAL CHEMISTRY WEEK ACTIVITIES



The Dayton Section got off to an early start with National Chemistry Week this year by distributing over 2000 copies of Planet Chemistry to 11 different elementary schools. Planet Chemistry is an 8-page booklet that describes several hands-on activities related to water hardness. The results from these activities were sent to the ACS and used to create a map illustrating the hardness of natural water supplies through the United States. The results can be obtained from the Internet at <http://www.acs.org/ncw>.

NCW activities started on Saturday, November 2, with SLIMEfest '97 at the Mall at Fairfield Commons. Ken Turnbull and thirteen members of the Wright State University Chemistry Club helped mall shoppers make over 4 gallons of the popular polymer. They also handed out over 300 copies of Planet Chemistry. (See the photo on page 35 of the December 8 issue of Chemical and Engineering News)

The following day, Sunday, November 3, the Dayton Section sponsored a Chemical Demonstration Show at Wright State University by Dr. John Fortman a well-known chemical educator and Dayton Section Councilor. A crowd of over 150 braved the cold and rain for the ninety minute show. The event was considered a complete success and discussions are already underway for next year.

NCW culminated with ChemFest - two-days of demonstrations and hands-on chemistry at the Dayton Museum of Natural History on Saturday, November 8 and Sunday, November 9. ChemFest was sponsored by Dayton Section, the Dayton Museum of Natural History, QCI, a ChemFirst Company, and Scitex Digital Printing, Inc. This year was special for ChemFest because it took place as the museum is evolving into the Dayton Museum of Discovery. The new museum will have a chemistry laboratory and demonstration facility. To celebrate this occasion, a special NCW T-shirt was designed and given to the 150 volunteers at ChemFest. The T-shirt depicts Discovery Tower, the focal point for Science Central, future home to the museum's physical science activities. The words "Discover Chemistry" are at the top of the T-shirt graphic. The T-shirts were a huge hit this year. Keep your eye out for them; you may see them around.

During ChemFest there were 7 demonstrations in the public laboratory. The demonstrations were presented by the chemistry clubs from Sinclair Community College, University of Dayton, and Wright State University and four high schools Centerville, Dayton Christian, West Carrollton, and Yellow Springs. Students from these schools also staffed 10 hands-on chemistry activities including: foam, SLIME, latex, oobleck, alchemy, indicators, rocket fuel, water works, copper plating, and floating bubbles.

New this year for ChemFest was the involvement of local industry. Scitex Digital Printing, Inc. sent volunteers to work with paper chromatography and the Air Force Research Laboratory at Wright-Patterson Air Force Base supplied, and staffed, a scanning electron microscope that museum visitors used to magnify objects to 40,000 times their size.



American Chemical Society Scholars Program

The American Chemical Society is sponsoring a scholarship program designed to encourage African-American, Hispanic, and Native American students to pursue undergraduate degrees in the chemical sciences. The program will award approximately 75 one-year college scholarships with awards up to \$2500. College scholarships will be awarded to students at two levels: high school seniors who will be entering college for the first time and undergraduate college students who plan to study or are currently enrolled in chemistry, biochemistry, or chemical engineering programs. The competition is open to students who meet the following qualifications: African-American, Hispanic or American Indian and show evidence of financial need for scholarship aid according to Free Application for Federal Student Aid (FAFSA) guidelines. The application deadline is February 15. To obtain an Application Form contact the American Chemical Society at 1-800-227-5558, ext. 6250.

Patterson Chemistry Competition

The Dayton Section will again sponsor the Patterson High School Chemistry Competition. The Patterson Awards, previously the Thomas-Hochwalt Awards, have a 25-year history in recognizing the top three high school chemistry students in the Miami Valley. The competition consists of a multiple choice examination at 9:00 AM on Saturday, January 31, 1998 at Sinclair Community College in Room 4011 (enter from the basement of Building 4). The outstanding student from each high school as determined

by the performance on this exam will be awarded a plaque from the Dayton Section. In addition, the top scores from the exam will be asked to submit an essay on "Chemistry and Its Relevance to Me" for a scholarship award. This year, the awards are \$1000 (First Place), \$500 (Second Place), and \$250 (Third Place). The competition open to students from Montgomery, Miami, Greene, Darke, Clark, Preble, and Champaign counties who either have taken or are currently enrolled in a high school chemistry course. There is no registration fee for taking this examination.

Patent Handbook Available from ACS

The American Chemical Society's Committee on Patents and Related Matters has rewritten its booklet *What Every Chemist Should Know About Patents*. Intended for chemists in industry, small businesses and academe, the publication was prompted by enactment of legislation in 1995 that introduced major changes in the U.S. patent laws. This introduction to the essentials of patents and patenting procedures. The handbook presents an overview of the obtainment, use and value of patents in an easily understood form. Copies are available for \$2.00 each, requests, including prepayment to the ACS, should be sent to American Chemical Society, PO Box 57136, West End Station, Washington, DC 20037.



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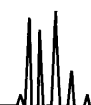
Need Help in Your Career?

The Dayton Section offers assistance in career planning and searching for new positions. Contact Glen Buell (937) 426-2937.

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