



THE DAYTON SECTION

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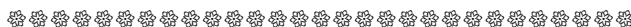
BULLETIN

September-October, 1998

"What is Environmental Chemistry?"

Wright State University

Tuesday, September 15, 1998



"Where Do We Go From Here?"

Wright State University

Wednesday, October 21, 1998

AMERICAN CHEMICAL SOCIETY

Dayton Section

Eugene W. Kettering Center
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SECTION MEETINGS . . .

September

Date: Tuesday, September 15, 1998

Place: Room 340, Oelman Hall
Wright State University

Agenda: 6:30 PM — Social
7:30 PM — Speaker (Joint meeting with AICHE)

Speaker: Dr. Stanley Manahan

Topic: *"What is Environmental Chemistry?"*

Abstract:

Environmental chemistry has become firmly established as a viable sub-discipline in the chemical sciences, and some chemical educators argue that it should be a required part of the curriculum for a chemistry degree. Environmental chemistry may be defined as the study of the origins, transport, reactions, effects and fates of chemical species in the atmospheric, aquatic, terrestrial and living environments. The successful application of environmental chemistry can be used to predict pollution problems at the design stages of new technologies permitting remedial action to be taken before major problems actually develop. This lecture discusses environmental chemistry on the basis of the author's book on that topic, which has been in print for more than two decades and is in its sixth edition. The specific topics addressed are the following: (1) chemistry and environmental chemistry, (2) properties of water and bodies of water, (3) fundamentals of aquatic chemistry, (4) oxidation-reduction, (5) phase interactions, (6) aquatic microbial biochemistry, (7) water pollution, (8) water treatment, (9) the atmosphere and atmospheric chemistry, (10) particles in the atmosphere, (11) gaseous inorganic air pollutants, (12) organic air pollutants, (13) photochemical smog, (14) the endangered global atmosphere, (15) the geosphere and geochemistry, (16) soil chemistry, (17) nature and sources of hazardous waste, (18) environmental chemistry of hazardous wastes, (20) toxicological chemistry, and (21) resources and energy.

Biographical Sketch:

Stanley E. Manahan is Professor of Chemistry at the University of Missouri-Columbia, where he has been on the faculty since 1965. He received his A.B. in chemistry from Emporia State University in Kansas in 1960 and his Ph.D. in analytical chemistry from the University of Kansas in 1965. Since 1968 his primary research and professional activities have been in environmental chemistry with recent emphasis on hazardous waste treatment. Current research deals with gasification as an alternative to incineration as a means of thermally treating hazardous waste materials without producing toxic pollutant byproducts. Professor Manahan teaches courses on environmental chemistry, hazardous wastes, toxicological chemistry and analytical chemistry and has lectured on these topics throughout the U.S. as an ACS Local Section tour speaker. He is also President of ChemChar Research, Inc., a firm working with the development of non-incinerative thermochemical and electrochemical treatment of mixed hazardous substances containing refractory organic compounds and heavy metals. Professor Manahan has written books on environmental chemistry, general/environmental chemistry, hazardous wastes, toxicological chemistry, applied chemistry and quantitative chemical analysis. He has been the author or co-author of approximately 80 research articles.

October

- Date:** Wednesday, October 21, 1998
- Place:** Oelman Hall, Room TBA (look for signs at the meeting)
Wright State University
- Agenda:** 6:15 PM — Social
6:30 PM — Speaker
- Speaker:** Frank Walworth
ACS Career Development Office
- Topic:** *"Where Do We Go From Here?"*

Abstract:

The Career Services Department of the American Chemical Society will offer a session on career transitions. Employment security in today's job market requires an ability to manage your career and to explore possible career transitions. This session places emphasis on the transition process and will explore ways in which chemists can identify possible job/career options. This program is designed for experienced chemists, but chemists at all levels will benefit.

This meeting was arranged and co-sponsored by the new Women Chemists Committee (WCC) co-chaired by DeLyle Eastwood and Jennifer Shaw. If you would like to know more about the WCC, please contact DeLyle or Jennifer.



ACS Store goes Online with Local Section and Division Award Products

In April of this year, ChemCenter, the one-stop Web site for chemical professionals in industry, academe, and government worldwide, of the American Chemical Society went online to bring its members many ACS branded items at reasonable prices, with the convenience and safety of ordering through the Internet. Now the ACS Store has added a new catalog of items especially for Local and Divisions to use in their recognition efforts. Stop by ChemCenter at <http://www.chemcenter.org> and check out the new Local Section and Division Awards catalog. This portion of the ACS Store features plaques, banners, certificates, past-chair pins and ACS emblems to make ordering your recognition items as easy as a few keystrokes and mouse clicks! All prices include shipping and will be delivered to your door via UPS. For more information on ChemCenter or the ACS Store, visit the web site at: <http://www.chemcenter.org> or call 1-800-227-5558.

In the News...

Dayton Named Outstanding Section

It's "déjà vu all over again" as Dayton is named an Outstanding Section for the second year in a row!



As last year, the Dayton Section was named Outstanding Section in the medium size category. This year, however, the Dayton and Memphis Sections finished the selection process in a tie. Congratulations to the Memphis section and to our 1997 local section officers, committee chairs and committee members for a job well done. Special recognition is due to Past Chair Professor Ken Turnbull for his exemplary year-end report. At this writing, our Councilor John J. Fortman, is preparing to receive our award at the Local Section and New Members reception during the Boston ACS Meeting.

Highlights for 1997 include our National Chemistry Week Activities (at Fairfield Commons, Wright State University and The Dayton Museum of Discovery) and our awards sponsorships (the Patterson-Crane Award, the Patterson College Awards, the Patterson High School Awards and the West District Science Fair). Our annual Professional Practices Meeting, where we honored the Section's new 50-year members, was especially memorable.

The local Younger Chemists Committee, Industrial Relations Committee, Women Chemists Committee and the Section Historian were all newly established in 1997. With your involvement, the Dayton section can achieve a hat trick in 1998.

Three "50-Year" ACS Members for the Dayton Section in 1998

The National ACS has informed the Dayton Section that three of its members will be recognized for fifty years of service in the American Chemical Society in 1998. These members, who joined the ACS in 1949, are Mr. Robert G. Dunn, Mr. Walter C. Hansen and Dr. Harold Rosenberg. The Dayton Section joins the National in saluting these stalwart members and plans to invite them to be guests of honor at its 1998 Professional Practices Meeting, to be held this November. Recently, some of our 50-year members have given attending members brief, vivid accounts of their remarkable professional careers in chemistry, and we will invite this year's honorees to do likewise.

50 Years

AND...

Local Students Participate in National Chemistry Olympiad

Eight outstanding high school chemistry students took the national examination on April 23 that could have qualified them to become members of the U.S. National Chemistry Olympiad team that will compete in the 30th International Chemistry Olympiad (IChO) in Melbourne, Australia, July 5 - 14, 1998. These Students from the Dayton area are:

From Beavercreek High School: Farah Abdulla and Andrew Schepler,
From Centerville High School: Nicholas Guise and Jonathon Spaulding,
From Fairborn High School: Brian Skinn,
From the Miami Valley School: Kavitha Reddy and Nathan Young, and
From Tippecanoe High School (Tipp City): Scott McCrillis.

The IChO involves a series of theoretical exams, laboratory exercises, and other activities aimed at identifying the best chemistry students from participating nations from around the world. This is the fifteenth year of U. S. participation. Last year, the U.S. team earned one gold, two silver, and one bronze medals.

The eight Dayton nominees are among nearly 1,000 high school students nationwide that took the national qualifying exam. Unfortunately, none of the eight were identified in the top 20 nationwide but two students (Brian Skinn and Andrew Schepler) received special recognition by receiving "honors" in the NCO competition. The twenty students were identified on May 8th and had an intensive training period (June 7th - 21st) at the U.S. Air Force Academy in Colorado Springs, CO. The top four will be chosen to represent the U.S. in the IChO competition.

Election Time Again

Election materials will be sent to all members of the Dayton Section in early October. Completed ballots shall be returned directly to the Secretary in pre-addressed envelopes before the November meeting of the Dayton Section. At this meeting the ballots will be counted and the results of the election announced.

Any member of the Dayton section is eligible for office. Anyone wishing to run for any of the above offices in this election may do so by presenting a petition bearing the signatures of 5% (25 signatures) of the members of the Dayton Section to the Secretary by October 1, 1998.



National Chemistry Week

Be sure to check the next edition of the Newsletter to find out all about the Dayton Section's NCW activities. Last year's events were fun for everyone. Interested in volunteering to help during some of the activities? Contact Paul Fleitz or Steve Trohalaki.

Report from the Dayton Section Bylaws Committee

The Dayton Section Board of Directors recently appointed a committee to investigate possible changes to the Dayton Section Bylaws. The main changes being considered are summarized below. If you have comments or suggestions regarding these changes, please contact Ken Turnbull at 775-2671.

- change in the terms of service of the Treasurer and Secretary from one year to two years
- eliminate the Professional Practices Committee Chairman as an elected, Board position
- change the elections process so that it does not require a special mailing (i.e. may be done using the regular bulletin mailing)
- other minor changes to make our Bylaws conform to new ACS guidelines


John Fortman wins 1998 Chemical Manufacturers Association Catalyst Award

Dayton Section Councilor John Fortman was selected as a winner of the 1998 Chemical Manufacturers Association Responsible Care National Catalyst Award for excellence in teaching. He is among 7 recipients of this prestigious national award. The award, which consists of a \$5,000 honorarium, medal, and citation, will be presented at an awards ceremony during the Chemical Manufacturers annual meeting June 4, 1998 at The Greenbrier, White Sulphur Springs, West Virginia. One of the 1997 Catalyst Awards was received by another Dayton Section member, Richard Jones, from Sinclair Community College.

The Catalyst Award recognizes excellence in classroom teaching and contributions that enrich the teaching of chemistry. John was selected based on a nomination that contained letters of support from former students, high school teachers, and professional colleagues. The nomination also cited John's service to the American Chemical Society on both the local and national level and his chemical demonstration outreach program which reaches over 7,500 Dayton area middle and high school students each year.



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Call Dave Tomlin at (937) 255-3808, x 3181 or email tomlindw@ml.wpafb.af.mil

Need Help in Your Career?

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

Others - Services Available

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