



the A lembic



Chair's Corner



Dear Fellow Chemists,

Labor Day is past and I just received a reminder from Tom Zamis that he needed my Chairman's Corner so he could send out *the A lembic*. I guess that means that summer is over already! Though I hate to see summer end so fast, I look forward to resuming CWS-ACS meetings. I really enjoy getting together with my ACS friends.

Our first meeting this fall is next Wednesday, September 11 in Stevens Point. The meeting topic is "Industrial Ecology and the Environmental Chemistry of Hazardous Wastes," presented by Dr. Stanley Manahan, University of Missouri. Come join us for dinner at Michele's Restaurant prior to the meeting.

Beginning this year, "National Chemistry Week" is scheduled for the fourth week in October, which includes "Mole Day" - October 23rd. Exact dates this year are October 20-26, and this year's theme is "Chemistry Keeps Us Clean." Robin Tanke (rtanke@uwsp.edu) is heading up CWS-ACS efforts for this event. Our section has done a good job of participating in this event in the past. Please help Robin make this another success.

Marv Lang recently sent a letter and ACS National Meeting report to section members. I hope

you read them and took the letter's message to heart. We have made good strides toward returning our section to the level of activity that we once enjoyed. (We were temporarily handicapped by the loss of some of our key people to job changes.) However, we still need the continuing efforts of many members. When we all pitch in the job is not too big for anybody, and the result is very satisfying for all of us. With elections coming up we'll need some willing volunteers for elective offices. And Robin Tanke, moving from Chair-Elect to Chair, will need people to head up certain activities (probably including National Chemistry Week, which she has been chairing lately). Please say yes!

See you in Point!

Dave



ACS - CWS Mini-Directory

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American Chemical Society

Central Wisconsin Section



"Industrial Ecology and the Environmental Chemistry of Hazardous Wastes"

by
Dr. Stanley E. Manahan
University of Missouri

Wednesday, September 11, 2002
7:30 PM Science Building, *Trytten Lecture Hall*. Room A121
UW – Stevens Point

5:30 Mixer & Dinner, Michele's Restaurant

Abstract:

Hazardous waste constitutes one of the major environmental problems of our time. Particularly through possible groundwater contamination, such wastes pose significant potential health hazards in many areas. Efforts to alleviate such problems have been only partially successful, with a disproportionate amount of money spent in litigation and relatively fewer resources devoted to actually solving hazardous waste problems. A much better approach to dealing with hazardous waste is to use the principles of industrial ecology so that industrial systems are viewed as being analogous to ecosystems in nature, in which waste products with no use to any life form in the ecosystem are very rare. An industrial ecosystem is designed so that a group of industries and waste processors exists symbiotically, such that waste products from one are used as raw materials for another. This lecture discusses hazardous wastes on the basis of systems of industrial ecology, with emphasis on aspects such as design for environment, materials recycle, and "green chemistry". It considers the environmental chemistry of hazardous wastes according to the following factors: (1) origin, (2) transport, (3) reactions, (4) effects, and (5) ultimate fate. The destruction of hazardous wastes by gasification and the advantages of gasification over incineration are discussed with an example of a cocurrent flow hazardous waste gasification system.

The Speaker:

Stanley E. Manahan is a 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 American Chemical Society Local Sections tour speaker. Professor Manahan has written books on environmental chemistry (*Environmental Chemistry*, 6th ed., 1994, Lewis Publishers/CRC press), general/environmental chemistry (*Fundamentals of Environmental Chemistry*, 1993, Lewis Publishers/CRC press), hazardous wastes (*Hazardous Waste Chemistry, Toxicology and Treatment*, 2nd ed., 1990, Lewis Publisher/CRC press), toxicological chemistry (*Toxicological Chemistry*, 2nd ed., 1992, Lewis Publishers/CRC press), applied chemistry, and quantitative chemical analysis. He is the author or co-author of approximately 85 research articles.

Prior to the meeting, a 5:30 PM mixer and dinner will be held at Michele's Restaurant, 513 Division St. (Business 51 North, adjacent to UWSP campus). After dinner, drive three blocks east on Fourth Avenue to reach Parking Lot X on campus. The Science Building is adjacent to the lot and the Trytten Lecture Hall is just inside the main entrance. **Reservations may be made by calling Tom Zamis at 715-346-3258 (or email tzamis@uwsp.edu) by 5 PM on Monday September 9.**

ACS - Central Wisconsin Section 2002 Meeting Schedule				
DATE	LOCATION	SPEAKER	TOPIC	HOST
Sep. 11	Stevens Point	Stanley Manahan	Environmental Chemistry	Tom Zamis
Oct. 7	Eau Claire	J. Ernest Simpson	"Chemistry of Wine"	Dave Lewis

23rd Annual ALMA Conference

The 23rd Annual ALMA (Analytical Laboratory Managers Association) Conference is scheduled in St. Louis on Thursday, October 17, 2002. Preceding the conference will be three workshops that may be of particular interest to ACS Members.

Both the conference agenda and the workshop descriptions can be viewed at our website at www.labmanagers.org.

The mission of our Association is to share and disseminate information about the management of analytical services and instrumentation laboratories.

John Pivinski
ALMA Publicity Chair

Thank You

Dear Sirs and Madams,

Thank you for the Outstanding High School Chemistry Student award and the plaque. In college, I am continuing my studies in chemistry. I hope to become a high school chemistry teacher when I have graduated.

Thanks,

Caitlin Sullivan

2001 Award Recipient

ACS-CWS Web Page

<http://www.uwsp.edu/chemistry/acscws/>

or you can link there from the American Chemical Society home page - Local Sections. Contains the most up-to-date information about section activities including all issues of the Alembic and meeting notices.

Chem Faculties to Meet

The 2002 UW System Chemistry Faculties meeting will be held at UWSP September 27 and 28. We hope you will find our choice of the theme ""The Role of Research in Tomorrow's Undergraduate Chemistry Curriculum" both stimulating and informative. We are fortunate to have persuaded Dr. Elsa Reichmanis, President-Elect, American Chemical Society, Dr. Arthur B. Ellis, Director, Chemistry Division, National Science Foundation, and Professor Richard Keiter, Past-President, Council for Undergraduate Research to come and share their perspectives on this question. We look forward to a stimulating and informative session. We hope that you and your colleagues will be able to attend. If you have questions about the program please contact Marv Lang (cmlang@uwsp.edu) for additional information.



National Chemistry Week 2002 Is On The Horizon

The ACS Office of Community Activities invites you to participate in National Chemistry Week 2002, October 20-26. Involve your community in learning about the importance of chemistry by using the theme for this year "Chemistry Keeps Us Clean." Join with chemists across the country as they share the chemical story of the relevance of chemistry to cleaning by conducting presentations, demonstration shows, and hands-on activities for the public. Consider becoming involved in the unifying event for NCW 2002, "Chemistry Makes Cleaning Possible" a personal hygiene collection campaign to benefit local charities. For more ideas and information about NCW, call 1-800-227-5558 ext. 6097 or visit the website at <http://chemistry.org/ncw>.