



Green Mountain Local Section ACS

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National Chemistry Week:
Coordinator ... Larry Marzec-Gerrior
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Announcement & Events:

October 16, 2003: Dr. Thomas Parliment will talk on "The Chemistry of Coffee Roasting" Rutland, VT

October 19-25, 2003: National Chemistry Week "Earth's Atmosphere and Beyond!"

November 20, 2003; Dr. York Rhodes will talk on "Astrochemistry: The Evolution of Organic Molecules in Interstellar Clouds" – location to be announced

National ACS website: Chemistry.org

October 2003 Meeting

"The Chemistry of Coffee Roasting"

Date: Thursday October 16, 2003

Time: 7:30 pm

Location: Rutland High School Auditorium

Dinner with the speaker: 5-7 pm at Royals Hearthside in Rutland at the intersection of Route 7 and 4. **Pastries and coffee** at the HS for the talk.

Abstract During the roasting of a green coffee bean a myriad of reactions occur. Water is lost, carbon dioxide evolved, brown pigments are generated and delightful flavors and aromas are produced. This presentation will discuss the process of coffee roasting with particular emphasis on the chemical reactions and interactions which occur.

Biographical Sketch Tom Parliment is a flavor chemist who received a BS degree in Chemistry from Lehigh University and a Ph.D. in Food Science from the University of Massachusetts. In his career with General Foods and Kraft Foods, he studied the aromatic composition of numerous foods such as meat, coffee, baked goods, seafood, fruits, cheese and he has more than 20 patents and 50 publications in these and related areas. He is a member of a number of professional societies, including the American Chemical Society (ACS), Sigma XI and the New York Institute of Food Technology. Tom is past chairman of the New York Chromatography Society, the Flavor Subdivision of the ACS, and the Rockland Chemical Society. He is the co-organizer of four national American Chemical Society Symposia, covering biologically and thermally derived aromas. He has co-edited four flavor-related books. Since retirement from Kraft, he has been a consultant to the flavor industry.

Summary of September Meeting Brewery Tour

Julie Felske, who's main responsibilities are Microbiology and Quality Control, gave a special tour of the South Burlington Magic Hat brewery to our local section ACS members on September 18th. Thank you very much Julie for the VIP treatment!



National Chemistry Week (NCW):

“Earth’s Atmosphere and Beyond”

Again we have the opportunity to spread the news about the American Chemical Society's largest public outreach program, National Chemistry Week. The 2003 celebration will be held October 19-25 and the theme is "*Earth's Atmosphere and Beyond!*" Several news stories are available on this theme:

- (1) "Chemistry is in the atmosphere"
- (2) "Beyond earth's atmosphere"
- (3) "Contributions of women in aviation and space exploration"
- (4) "Airplanes of the future - Smart materials to take flights to new heights"

The stories can be found for your convenience on the LSPR web site.

<http://chemistry.org/committees/LSPR.html>.

Our Local section Coordinator, Larry Marzec-Gerrior, reports that 25 boxes of NCW supplies were distributed to local schools. He has many ideas for next year's NCW programs. If you are interested in helping with next year's activities, please contact Larry.

Opening Doors of Opportunity: Chemical Technician Education

To facilitate outreach and recruitment, two-year chemistry-based technology programs will receive a technician career package. The ACS ChemTechLinks program produced the video "Opening Doors of Opportunity: Chemical Technician Education" and a second video on process technician education—each with a companion brochure—that will be distributed with "A Guide to Exploring the World of Work in Chemical Laboratory and Process Technology," a presentation for use in classroom visits and career fairs.

ChemCom Online Teacher Training Workshop

In an effort to provide training for more teachers who are using *Chemistry in the Community (ChemCom)*, the high school chemistry textbook developed by ACS, staff members and a web design consultant created an online introductory workshop for *ChemCom* teachers. This seven-week course explores topics including the laboratory, the three levels of chemistry teaching, thinking skills, and assessment—all within the context of *ChemCom*.

ACS 2004 Chemistry Workshops

Have you been trying or considering an activity-based, student-centered approach to teaching your general chemistry course? The new textbook, *Chemistry* (a project of the American Chemical Society), is designed to support and reinforce this approach. The textbook is part of a new initiative to rethink and rework the general chemistry course that too many students perceive as a barrier, rather than a pathway to their future. *Chemistry* includes traditional chemistry concepts in a non-traditional order, using pedagogy built on active learning and group interactions. The concepts and principles in *Chemistry* are developed as often as possible by the analysis of data obtained in classroom activities. Because the approach requires more effort on the part of both students and instructors and what we are trying to accomplish may be unfamiliar, the ACS is sponsoring workshops to help prospective users develop a better understanding of the content and pedagogy of this new textbook and how it has worked in classrooms. There will be a half-day workshop on March 27, 2004 preceding the ACS Meeting in Anaheim, CA, and a one-and one-half-day workshop July 16 -17, 2004 preceding the Biennial Conference on Chemical Education in Ames, IA. For more information on applying for these workshops and/or obtaining a draft copy of the textbook, contact Marta Gmurczyk (m_gmurczyk@acs.org).