



Green Mountain Local Section ACS

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Officers 2004

Chair..... Beth Medeiros
Vice-Chair Michele Johnson
Chair-Elect..... **Vacant**
Secretary..... Beth Medeiros
Treasurer Beth Medeiros
Councilor..... Willem Leenstra
Alternate Councilor J.C. Van Houten

Committee Chairs

PR/Web Master Fiona Case
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Announcement & Events:
August 23-25 - ACS Fall Meeting, Philadelphia, PA

September 16, 2004 -Winery tour – location to be decided (Shelburne vineyards or Charlotte Village winery)

September (TBD)
Unilever Tour of Ben & Jerry's – Surfactant Chemistry

October (TBD)
Water Chemistry Talk at ECHO (Ecology, Culture, History, and Opportunity) of Lake Champlain and Dinner Cruise on Ethan Allen

Oct 31 – Nov 3, 2004 – 33rd Northeast Regional Meeting (NERM 2004) Hyatt Regency, Rochester, NY



ACS website: www.Chemistry.org

August 2004 Meeting

“Omya Plant & Quarry Tour”

Date: Wednesday August 4 , 2004
Time: 5:00 pm
Location: Omya Florence Plant Main Entrance
Dinner after tour: 7 pm at Lagasse's Steakhouse, & Country Inn, 1246 Franklin St, Brandon, VT.
RSVP Beth 802-770-7238 by August 2.

Title: "Chemistry at Omya"

Talk & Tour: A brief overview of the various types of chemistries used at Omya to take the mined marble, calcium carbonate, and make it purer and whiter by Phil Goss, Manager of Core Technologies. The Omya Florence plant is less than six miles north of Proctor, VT. In this very modern plant, products are manufactured for the paper, paint and plastics industries. This plant is capable of producing dry and slurry products. A tour of a new quarry, Hogback Quarry, given by Omya Geologist Andy McIntosh, will follow the plant tour.

Biographical Sketch: Phil Goss has worked at Omya for 26 years as a laboratory chemist, lab manager, and now manager of the North American Technical Department.

Directions to OMYA, Florence Plant:

From Burlington, VT:

Route 7 South and follow Route 7 South for approximately 65 miles. (~ 1.5 hours)

You stay on Route 7 South through the town of Brandon and enter almost into Pittsford village. On your right side you will see a sign that has “OMYA” and an arrow pointing right. This will be Kendall Hill Road” (just North of the Village of Pittsford). Take the right hand turn onto Kendall Hill Road. You will come to a T-junction. Bear to the left. Your next landmark will be a railroad trestle. BEFORE GOING UNDER the trestle, bear to the right.

After a short distance you will see a sign for Omya East. Continue to West (Main) Entrance.

Go approximately ¼ mile around the bend. You should take the paved drive-way on the left in order to go to the Plant. Follow the paved road (middle lane.) At the top on your right you will see a large parking lot with many trucks, make your way carefully through and head toward the front of the building. See the receptionist at the main entrance.

From points South:

Take Route 7 North and after passing through the town of Pittsford, look for the “OMYA” sign and arrow pointing left. Follow the above directions after turning on to Kendall Hill Road.

OMYA website: <http://www.omya-na.com>

Congratulations to Our Section for winning Second Place in the Speaker Hospitality Award for 2003!



Our Coucilor Dr. Willem Leenstra receiving the award for the Green Mountain Section from Yorke Rhodes at the Aneheim, CA 2004 Spring ACS Meeting.

2005 Speaker Series

We are pleased to announce that the following ACS National Tour speakers will be speaking at our local section meeting in 2005.

April 21, 2005 - Dr. Lauren Bartlett Heine from GreenBlue of Charlottesville, VA will talk on "Green Chemistry: Challenges & Opportunities for All Chemistry in the Twenty-first Century"

Dr. Lauren Heine recently (June 2003) accepted a position as the Director of Applied Science at GreenBlue in Charlottesville, VA. Prior to that, she served as Director of Green Chemistry and Engineering for the Zero Waste Alliance (ZWA) in Portland, OR. At ZWA she worked with organizations to apply the principles of Green Chemistry and Engineering to their operations to eliminate waste and toxics and become more economically and environmentally sustainable. These projects have resulted in improved environmental performance accompanied by many hundreds of thousands of dollars of economic benefits. Prior to moving to Oregon, she served as a Fellow with the American Association for the Advancement of Science in the Industrial Chemicals Branch of the U.S. Environmental Protection Agency in Washington, D.C. In this capacity she worked with the Green Chemistry Program, promoting research and development of products and processes that have benign human and environmental health impacts. Her connections with the Green Chemistry Program and as senior editor for two

American Chemical Society Symposium Series books entitled Green Chemical Syntheses and Processes and Green Engineering make her a resource for facilitating technical innovation in businesses desiring to enhance their environmental performance. Dr. Heine has taught chemistry labs at Bowdoin College, worked with the Water Resources Division at the U.S. Geological Survey and as an independent consultant. Dr. Heine earned her doctorate in Civil and Environmental Engineering from Duke University.

Sept 22, 2005 - **Dr. William H. Zoller** from the University of Washington will talk on his "Chemical Outreach Program: Getting young people interested Science".

Bill Zoller grew up in Alaska during the 1950's and 60's. He graduated in chemistry from the University of Alaska in 1965 and went to graduate school at the Massachusetts Institute of Technology where he studied nuclear chemistry and graduated in 1969 with a Ph.D. He became an Assistant Professor of Chemistry at the University of Maryland in 1970 after a brief post doc at the University of Hawaii. He became a Full Professor in 1969 at Maryland, and while there published numerous research papers and led research programs in urban air pollution, volcanic chemistry, and atmospheric chemistry in Antarctica. Most of his research has been to use Instrumental Neutron Activation Analysis to measure trace elements in samples from the atmosphere. His work also has been with the measurement of radioisotopes in the environment from atmospheric weapons testing and reactor accidents, such as Chernobyl in the former Soviet Union. In 1984 he moved to the University of Washington in Seattle as a Professor of Chemistry where he still works. Within two years of arriving in Seattle, he suffered a serious auto accident in which he suffered a traumatic brain injury that has removed much of his memory of both the past and day-to-day functions. Because he had to learn how to teach freshman chemistry without having a memory himself, he devoted his time to learning how to teach in a different way. He learned to teach chemistry using a computer and the computer PowerPoint program. Since then, he has produced over 500 computer slides for teaching freshman chemistry. These slides are now used with the Silberberg Freshman Chemistry book (McGraw-Hill). Since then, all major textbooks also have obtained computer slides, which the students love!

Welcome to Our New Members

Susan Alexander – Stone Environmental

Dan Gerard – OMYA

Kate Harris – UVM Biochemistry

Angela Lussier - Mylan Technologies