



Green Mountain Local Section of the American Chemical Society

e-mail: GreenMntACS@yahoo.com

Green Mountain Section website:
<http://membership.acs.org/g/greenmt>

Officers 2010

Chair..... Fiona Case
Chair-Elect..... Open
Secretary..... Jody Chamberlain
Treasurer..... Beth Medeiros
Councilor..... Willem Leenstra
Alternate Councilor..... Martin Case

Committee Chairs

PR/Web Master..... Fiona Case
Gov't Affairs..... Sarah Locknar
Newsletter Editor... Willem Leenstra



Upcoming Events

June 2-5 – NERM2010 at SUNY
Potsdam. See last page of this
newsletter for more information.



ACS website: www.Chemistry.org

GMLS May Newsletter

“Coffee and Beer”

When: 4:00 PM, Wednesday, May 26, 2010

Events: Tour of Green Mountain Coffee Roasters



and a tour of The Alchemist Brewery



Venues: Green Mountain Coffee Roasters
33 Coffee Lane, Waterbury
and
Alchemist Pub and Brewery
23 South Main Street, Waterbury

Dinner: The Alchemist Pub and Brewery

Directions to Green Mountain Coffee Roasters: Take Exit 10 off I-89. Merge onto Route 100 S toward Waterbury. Turn left at North Main Street. Proceed 0.4 miles until turning left at Foundry Street. The facilities will be on the right. The Alchemist is 0.2 miles further south on Main Street.

If you wish to join us for dinner after the tour, please RSVP Michele Johnson at 236-7351, or via e-mail to 4vermonsters@comcast.net by **Monday, May 24.**

Host Companies' Information



The Alchemist

Just after Thanksgiving, 2003, proprietors Jennifer and John Kimmich turned their vision for a specialty-brew restaurant into reality and finalized renovations on Waterbury's original Post Office.

The Alchemist is a 7-barrel brew pub specializing in hand-crafted beer and casual pub fare. All of their ales flow directly from their basement brewery, which was designed and installed by brewer and co-proprietor John Kimmich. Only the finest imported malts and domestic hops available are used in bringing customers the tastiest and finest selection of beers in Vermont.

The Kimmichs have no plans to grow beyond the microbrewery size. Their motto continues to be "It is impossible to present a bottled version of the beer and have it taste identical to the draft version."



Green Mountain Coffee Roasters

Since 1981, Green Mountain Coffee has been roasting the finest Arabica beans from coffee-growing communities around the world. Their mission is to provide customers with coffee that is not only delicious, but whose procurement is environmentally sound, and whose production is socially just. In the process, they hope to inspire others to view business as a partner and contributor in the global effort to create long-term solutions and sustainability for people and ecosystems worldwide.

The company has seen meteoric growth, especially since going public in 1993. Acquisitions include Keurig, the leading single-cup brewing system on the market, as well as a number of other coffee brands: Tully's Coffee, Newman's Own, Caribou Coffee, Timothy's and Caf  Express.

Awards for Chemistry Seniors at Vermont Colleges and Universities

The ACS Green Mountain Local Section has initiated awards in chemistry to recognize outstanding undergraduate senior students at colleges and universities in the state of Vermont. Award recipients are nominated by faculty at each institution and awards are presented at annual awards ceremonies at those institutions. The awards consist of \$100, a certificate, and a copy of the Merck index.

- Norwich University: Kaitlyn I. Doolittle
- St. Michael's College: Katelyn Billings
- Middlebury College: Zachary X. Giustra
- University of Vermont: Jonathan Hulce
- Castleton College: Joel Lombard

Presentations will be made over the next couple of weeks. Congratulations to the winners - and best wishes for your chemistry careers!

Message from Our Section Chair, Fiona Case



One of the many benefits I've enjoyed as chair-elect and chair of this local section, and before that as a committee member and as chair of the Princeton local section, was the opportunity to attend ACS leadership training courses. These are truly excellent courses which would be invaluable for professional chemists of any age (including our retired/emeritus members). I regularly use the skills and tools gained from this training in my business, when I participate in committees at my church or in the community, and naturally in my work with the ACS.

You can find details of the courses at the ACS National website, linked from our new website: <http://greenmntacs.sites.acs.org/>. The ACS's Leadership Development Institute is currently offering a limited number of scholarships at a 50% reduction (usually a course fee \$150 for ACS members). The Green Mountain Local Section would like to add to this and provide the opportunity for you to attend one of these courses free of charge. We will cover conference and course registration fees, and two nights accommodation, for a limited number of local section members to attend one of the courses offered at either the Northeast Regional Meeting (in Potsdam, NY, on Saturday June 5th) or at the ACS National Meeting in Boston (August 22-24). In return we would ask for a commitment to share the skills you have learned as an active participant

in the local section - as a committee member helping to organize local section meetings and outreach activities such as national chemistry week. If you are interested in this opportunity please contact me at greenmtacs@yahoo.com.

Vermont State Science and Mathematics Fair

On Saturday, April 17, 2008, the Vermont State Science and Mathematics Fair was once again held at Norwich University. Martin Case represented our Section by reviewing numerous projects, and selecting the following three winners of an ACS award, in the elementary, middle, and high school categories.



Samuel Edwards-Kuhn

Samuel is a student at the Renaissance School (6th Grade). His project was "Love your Fruit" and explored ways to increase the rate of fruit ripening - he showed a good grasp of the chemistry involved in this process and good use of the scientific method.



Hannah Dusharm

Hannah Dusharm attends St. Francis Xavier School (8th Grade). Her project was "See the C" and showed a good grasp of analytical chemistry techniques while determining the amount of vitamin C in orange juice from different sources.



Wilhelmina Weggler

Wilhelmina Weggler from Northfield Middle High School (11th Grade) presented a project that also explored the amount of vitamin C in various foods - but the focus of her study was the effects of microwave radiation. She concluded that cooking food in a microwave does not damage the nutritional value of food as it regards vitamin C content.

We heartily congratulate this year's winners on their accomplishments as young chemists!



In Memoriam, Albert F. Preuss

Albert F. Preuss, one of the chemists we honored as a 60-year member of the ACS earlier this year, died on February 9, 2010. He was a resident of Shelburne, Vermont, Granby, Quebec, and Vero Beach, Florida.

Albert F. Preuss was born on September 17, 1926 in Gleason, Wisconsin to Olga (Spitzer) Preuss and Albert F. Preuss, Sr. He grew up in Antigo, Wisconsin, on the family farm. After the farm was lost in the Great Depression, the family moved to Chicago, where Al graduated from Bowen High School in 1944. After a year at Michigan State University, he served in the United States Army Air Corps in World War II. After the war, he passed up an opportunity to go to West Point, choosing instead to attend the University of Wisconsin, where he earned his B.S., and then a Ph.D. in Chemistry in 1953.

Albert married Donna DeLong in 1949, and in 1953, the family moved to the Philadelphia area, where Al worked first for the Rohm and Haas Company, and then Sybron Chemical Company, as vice president of research. In

1975, he started Aldex Chemical Company, Ltd., in Granby, Quebec with his partner, Mark Kurtz. Aldex Chemical manufactures ion-exchange resins and has an outstanding environmental record, of which Al was very proud.

Most of Al's scientific work involved the development of ion-exchange systems, which are used to separate different elements and remove impurities from water. His thesis research, directed by Dr. Robert Kunin, concerned separation of the elements rhenium and molybdenum, rhenium being used in automobile catalytic converters. Subsequently, he developed processes for extracting uranium from low-grade ores, polymers for multi-grade oils, and ion-exchange systems for purifying water. Albert had more than 10 patents, and authored or co-authored more than 75 papers, journal articles, and presentations in the fields of water treatment and chemical manufacturing. The achievement of which Al was most proud was his ability to make people laugh. He had a gift for mixing with people and was the life of every party. Albert was also an avid sports fan, supporting University of Wisconsin teams, the Green Bay Packers, and the Philadelphia Phillies, and was friends with several of the Phillies' players and their families. Al coached Little League baseball for several years, instilling values of sportsmanship and fair play. He would not let his players boo - he hated injustice of any kind.

Albert is survived by his wife, Donna (DeLong) Preuss, his children, Tama Preuss and Todd Preuss, his grandchildren, Nicole Niper and Jonathan Niper, and his brother, Arthur Nelson. He is predeceased by his brothers, Harry Nelson and Roy Preuss.

A memorial service is planned for sometime this summer in Shelburne.

Report from Our Last Meeting

Dr. Berkeley "Buzz" Cue presented a very informative talk on the efforts to "green" the chemical industry. He drew on his experience as a consultant working with the pharmaceutical industry to create innovative solutions for pharmaceutical science and manufacturing challenges.

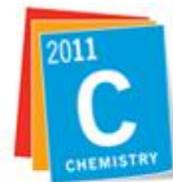
Afterwards, more than a dozen GMLS members reconvened at the Two Brothers Tavern (a last-minute substitute) and enjoyed good food and conversation.



International Year of Chemistry – 2011

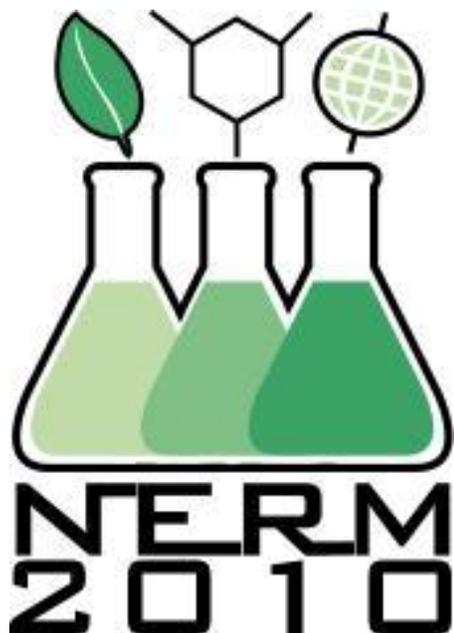
Next year is the International Year of Chemistry (IYC) and to celebrate, ACS invites all of its members to highlight everyday advances in chemistry.

Through the IYC-2011 initiative "365: Chemistry for Life" a different aspect of chemistry will be highlighted every day on the acs.org website. Anyone can submit ideas, by **June 30, 2010**, for a favorite element, compound, discovery, process, chemist, or chemistry innovation at www.acs.org/iyc2011. Suggestions should fall into one of four categories: energy, environment, materials, and health. Selected submissions receive recognition and an IYC-2011 pin and T-shirt. For more ideas on how to celebrate the International Year of Chemistry, visit www.chemistry2011.org/.



International Year of
CHEMISTRY
2011

Chemistry for a Sustainable World



37th Northeast Regional Meeting of the
American Chemical Society

June 2-5, 2010

Potsdam, New York

SUNY Potsdam campus



Dr. Catherine T. Hunt

Dr. Paul T. Anastas

Dr. Vicki L. Colvin

Plenary speakers include:

Dr. Catherine T. Hunt, Dow Chemical,

Prof. Paul T. Anastas, Yale University

Prof. Vicki L. Colvin, Rice University

Chemical education: Chemical education in the Northeast – Education for K-12 (Saturday June 5th)

Green/Environmental: Green chemistry in industry for a sustainable world – Biomass combustion - Environmental chemistry

Physical Chemistry/Nanotechnology: Nanotech & the environment – Bioelectronics and biosensors – Analytical and medical applications of nanotech – Novel materials and nanomaterials for energy conversion – Smart and hybrid polymer materials – General physical chemistry

Analytical chemistry: Scanning probe microscopy in modern nanotechnology – Contaminants in the environment – New trends in chromatography - General analytical

Biomedical and biochemistry: Metals in living systems – Chemical biology – Metal ions and metalloproteins – Stem cells in the CNS - Metal ion complexes in biological imaging – Biochemistry and biophysics of proteins and membranes – Oxidative stress and antioxidants – Detection of protein biomarkers for medical applications

Organic/Medicinal chemistry: Natural products – Drug development and design - Chemistry and the war against cancer – Synthetic organic chemistry – John Porco symposium – General

Inorganic: Organometallics and main group chemistry - General inorganic chemistry

Social and networking events, career workshops, graduate recruiting fair, vendor exhibition

We invite you to participate – abstract submission deadline April 30

More information at nerm2010.org