



Vol. 83 (8) November 2007

ISOTOPICS

The Cleveland Section of the American Chemical Society

On Deck:

Wednesday, January 16

Dr. Kathryn Kalasinsky
*Molecular Spectroscopy in
Microbial Forensics*

Venue: TBD

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http://www.csuohio.edu/cleveland_acs/

November Meeting Notice

Wednesday, November 14, 2007
Hines Hill Conference Center

4:30 pm	Executive Committee Meeting
5:30 pm	Social Time
6:00 pm	Dinner
7:00 pm	Lecture
8:00 pm	Informal Discussion

Mentor Marsh: Where it is and Where it is Going

Barb Kooser, Mentor Marsh Nature Center

Mentor Marsh, located along Lake Erie in Lake County, is the largest coastal wetland in northeastern Ohio. It formed when the Grand River changed course over 2000 years ago. Part of the Marsh is a State Nature Preserve and National Natural Landmark and part of the Marsh is a city Nature Preserve.

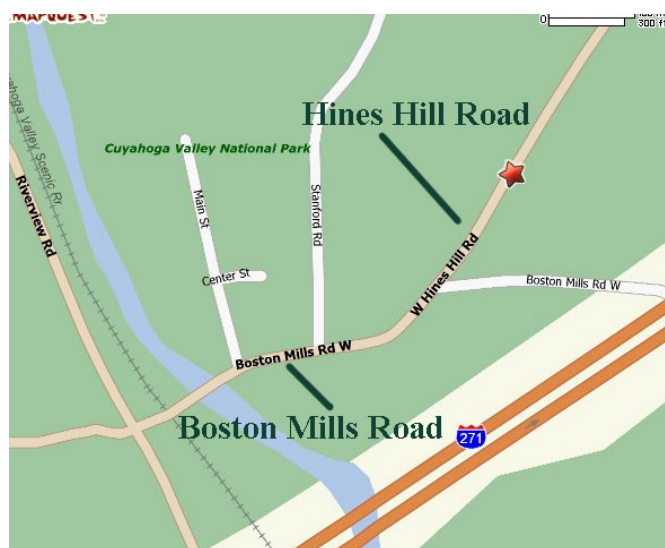
Humans had a great impact on the Marsh. Two separate salt incursions changed the flora and microfauna of the marsh. Phragmites australis now dominates the flora of the marsh. We will discuss how salt got into the marsh, how the vegetation has changed, and what types of plants and animals you currently find in the Marsh.

When Phragmites became the dominant plant in the Marsh, fire became a problem. The stems, which die in the fall, remain standing. In the spring they are good fuel for fires. The underground rhizome is not damaged and remains to send up new stalks; native plants, however, perish in the fires. Restoration efforts are underway to help restore the native swamp forest to Mentor Marsh. These efforts include fire prevention education, herbicide treatments, cutting Phragmites, and planting trees. We will discuss these efforts and the future of the Marsh.

DINNER RESERVATIONS REQUIRED: Please RSVP by contacting Dr. Lily Ng, by phone at 216-687-2467 or by e-mail at l.ng@csuohio.edu by **5 pm on Friday, November 9**. (For phone reservations, please clearly spell your last name and leave a return phone number.) Cost of the dinner is \$20 for members & guests and \$10 for students. Checks made out to "Cleveland ACS" are greatly appreciated. Vegetarian meal requests should be directed to Dr. Lily Ng.

Directions to Hines Hill Conference Center

The Hines Hill Conference Center is located in the Cuyahoga Valley National Park with easy access to the Ohio & Erie Canal Towpath Trail, as well as other hiking trails. Cleveland Section ACS has the site starting at 2:00 pm and there is ample parking. Please feel free to come early and enjoy the park before the meeting starts.



From downtown: Take I-77 South to Miller Road. Turn left at the exit, then right onto Route 21. Turn left onto Snowville Road, then right onto Riverview Road. Left on Boston Mills Road, cross the railroad tracks and the river. Bear left at Hines Hill road Y-intersection, the Conference Center is on the left.

From western suburbs: Take I-80 to Rt 77 exit. Follow Rt. 21 south, to Boston Mills Road – turn left. Cross Riverview Road, railroad tracks and river. Bear left at Hines Hill Road Y-intersection, the Conference Center is on the left.

From eastern suburbs: Take I-271 south. Exit at Route 8, go south to Hines Hill Road and turn right. The Conference Center is on the right, just past two small ponds.

From Akron: Take Route 8 North. Turn left onto Hines Hill Road. The Conference Center is on the right, just past two small ponds.

Speaker Bio

Barb Kooser has a Bachelor of Science from Westminster College, a Master of Science from the Ohio State University, and just completed a one year program at the University of Findlay which leads to a teaching certificate. Her professional experience includes working for 5 years with the Ohio Environmental Protection Agency in water quality modeling, ten years as an environmental scientist with the Chesapeake Bay Foundation's Pennsylvania office, and she works with the Cleveland Museum of Natural History as a Naturalist at Mentor Marsh and as a Science-to-Go teacher.

Morley Medal – Call for Nominations

The Cleveland Section of the American Chemical Society annually sponsors a regional award, which consists of the Morley Medal and a substantial honorarium. The purpose of the award is to recognize significant contributions to chemistry through achievements in research, teaching, engineering, research administration and public service, outstanding service to humanity, or to industrial progress.

The area of eligibility includes those parts of the United States and Canada within about 250 miles of Cleveland. The contributions for which the award is given should have been made by the awardee when a resident of this area, or if a major contribution was made elsewhere, the nominee should have continued to make contributions while a resident of this area. Nominations may be made by any member of the American Chemical Society, The Chemical Society or the Chemical Institute of Canada.

Complete information on the award and nomination process can be found on the Cleveland Section webpage at http://www.csuohio.edu/cleveland_acs.

Deadline for **receipt** of nominations is **Close of Business, December 3, 2007**. Send nomination and supporting material (electronic submissions in Word are appreciated) to:

Kenneth W. Street
Chair, Cleveland Section Awards Committee
NASA-GRC
MS 23-2
21000 Brookpark Road
Cleveland, OH 44135-3127
Phone: 216-433-5032
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November Historical Events in Chemistry

by Leopold May

The Catholic University of America, Washington, DC

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| November 3, 1749 | Daniel Rutherford, who was born on this day, discovered nitrogen or 'noxious gas' in 1772. He was the first to distinguish between carbon dioxide and nitrogen and invented a maximum and minimum thermometer. |
| November 11, 1925 | Discovery of cosmic rays was announced in Madison, Wisconsin on this date. |
| November 19, 1887 | James B. Sumner, who crystallized urease and showed it to be a protein in 1926, was born on this day. He shared the Nobel Prize in Chemistry in 1946, for his discovery that enzymes can be crystallized with John H. Northrop and Wendell M. Stanley for their preparation of enzymes and virus proteins in a pure form. |
| November 27, 1903 | Lars Onsager, who was born on this date, was a researcher in thermodynamics of irreversible reactions. In 1968, he received the Nobel Prize in Chemistry for the discovery of the reciprocal relations bearing his name, which are fundamental for the thermodynamics of irreversible processes. |