

Professional Development Workshop

Waquoit Bay Reserve

Bouncing Back: Preparing for a Changing Coast

Wednesday, April 22, 2015 - 8:30 am- 8:30 pm

For middle and high school science, civics, and social studies teachers.

\$10.00 - Includes lunch and dinner 10 PDPs

Participate in a climate change planning role play activity that you can use with your students.

Tour Falmouth's South Coast with Coastal Process Specialist Greg Berman.

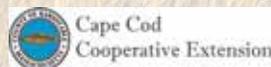
Try hands-on field and classroom activities.

Discover data-rich web-based resources.



Waquoit Bay Reserve Headquarters
131 Waquoit Hwy. (Route 28), Waquoit, (East Falmouth)

Advance registration for the workshop is required at www.waquoitbayreserve.org.



Bouncing Back: Preparing for a Changing Coast Engaging Students in the Discussion

Professional development for middle and high school STEM and social studies teachers

An engaging and relevant way to address Common Core standards for science, math, and social studies through the use of role play and supporting classroom, field and on-line activities.

**Waquoit Bay National Estuarine Research Reserve Headquarters (Boat House)
131 Waquoit Highway, Waquoit, MA 02536**

Wednesday, April 22, 2015 8:30 am -8:30 pm

Registration is required at www.waquoitbayreserve.org (\$10 due at time of registration)

Waquoit Bay Reserve will offer a teacher professional development workshop focusing on coastal resilience and preparing for the impacts of climate change, especially sea level rise. The day will include hands-on, field, and on-line activities to bring back to your classroom, as well as expert presentations. There will be a field trip in the afternoon and the evening will feature a mock negotiation role play simulation activity.

Coastal Geologist presentation: Dr. Chris Weidman, the Reserve's Research Coordinator, will present about local impacts of sea level rise and show how the Reserve is studying coastal processes. As weather permits, Dr. Weidman will demonstrate outdoor field activities to observe and measure coastal processes.

Field Trip: Greg Berman, Coastal Processes Specialist for Woods Hole Oceanographic Institution Sea Grant and Cape Cod Cooperative Extension will lead a bus field trip to Falmouth's South Coast to view the results of coastal flooding and erosion and examples of what municipalities and homeowners are doing to try to deal with it.

Role Play Simulation: The mock negotiation role play simulation activity is focused on a fictional coastal town with real data from the town of Barnstable. It was developed as part of the New England Climate Adaptation Project which is a collaborative effort developed with funding from the National Estuarine Research Reserve Science Collaborative by partners MIT Science Impact Collaborative, the Waquoit Bay Research Reserve, and the Consensus Building Institute.

On-line and hands-on classroom activities: Try out sea level rise visualizations from NOAA websites as well as tangible modeling activities you can do with your students.

PDP: Participants will have the opportunity to earn a certificate for 10 PDPs upon completing a follow up activity with their students and handing in a reflection paper.

Lunch, dinner, and snacks included.

For more information check www.waquoitbayreserve.org under the education/teachers tab or contact Joan Muller at 508-457-0495 x107 or joan.muller@state.ma.us.

Sponsors: Waquoit Bay National Estuarine Research Reserve, Waquoit Bay Reserve Foundation, Massachusetts Department of Conservation and Recreation, Cape Cod Cooperative Extension, and WHOI Sea Grant