

*The National Park Service presents*  
***Seminars in Science Education: Natural Research in the Heart of NYC***

*A series of four learning sessions involving Field Scientists and Master Teachers*

“Climate change, altered migration patterns, new habitat and bloom cycles, water quality, sea level rise”  
Join us for a series of presentations by and conversations with researchers and master teachers to explore the science behind these big issues and make connections to what is happening at the Gateway National Recreation Area sites around Jamaica Bay.

Friday April 20

**Death to Life in Jamaica Bay’s Salt Marshes**

Scientists and teachers will discuss how the Bay’s salt marshes (bounded by the Belt Parkway, Kennedy Airport, Rockaway Peninsula and Floyd Bennett Field) have gone from near-death to revitalization and life. Participants will use a combination of aerial photographs, maps, on-site observations, and water-quality and nekton (freely-swimming aquatic organisms) studies to understand how the physical changes have been monitored over time.

Presenters:

Patti Rafferty, NPS Coastal Ecologist - Nekton and salt marsh ecosystem restoration

Brett Branco, Brooklyn College Assistant Professor - Water quality and its effect on salt marsh

Mark Christiano, NPS GIS Specialist/Cartographer - Salt marsh loss and restoration

Howie Warren, Trinity School Master Teacher - Use of water quality data collection and data analysis in the classroom

Where: Jamaica Bay Wildlife Refuge Visitor Center

When 9:00 AM to 3 PM

Register by April 13

For more information, contact [Dan\\_Meharg@nps.gov](mailto:Dan_Meharg@nps.gov); please put *seminars* in subject line.