



The National Park Service presents Seminars in Science Education

A series of free learning sessions involving:
Teachers, students and scientists researching nature in the heart of NYC!



Jamaica Bay Citizen Scientists: Gathering, Reporting, and Analyzing Environmental Data

Join us as we explore opportunities for research and citizen science around the Jamaica Bay Wildlife Refuge, part of Gateway, the National Park of New York City, with 26,000 acres of land and water open for year-round recreational and educational activities.

Web information page: <http://www.nps.gov/gate/forteachers/index.htm>

SAVE THE DATES! ALL WORKSHOP SEMINARS ARE FREE!

All workshops will meet from 9:00am – 3:00pm. Please note the April 20, July 18, July 19 workshops will be at the Jamaica Bay Wildlife Refuge Center; the June 7 workshop at the Ryan Visitor Center at Floyd Bennett Field.

For information and reservations contact Dan_Meharg@nps.gov, put "seminars" in subject line. In the text area include the workshops you want to attend, your name, school name, address grade level and subject you teach phone number and preferred e-mail address.

JUNE 7

Bringing Back Oysters to NYC and Supporting the Horseshoe Crab

(Note: This session will take place at the Ryan Visitor Center at Floyd Bennett Field)

The oyster and the horseshoe crab are being closely monitored by scientists and students as two prime indicators of the health of the waters around NYC. Their growing population in local waters provides a glimpse of the future of a healthy marine ecosystem. Hear how the Harbor School students and scientists are working together to re-introduce oysters to New York Harbor.

JULY 18

Jamaica Bay: A Paradise for Birds and Birders

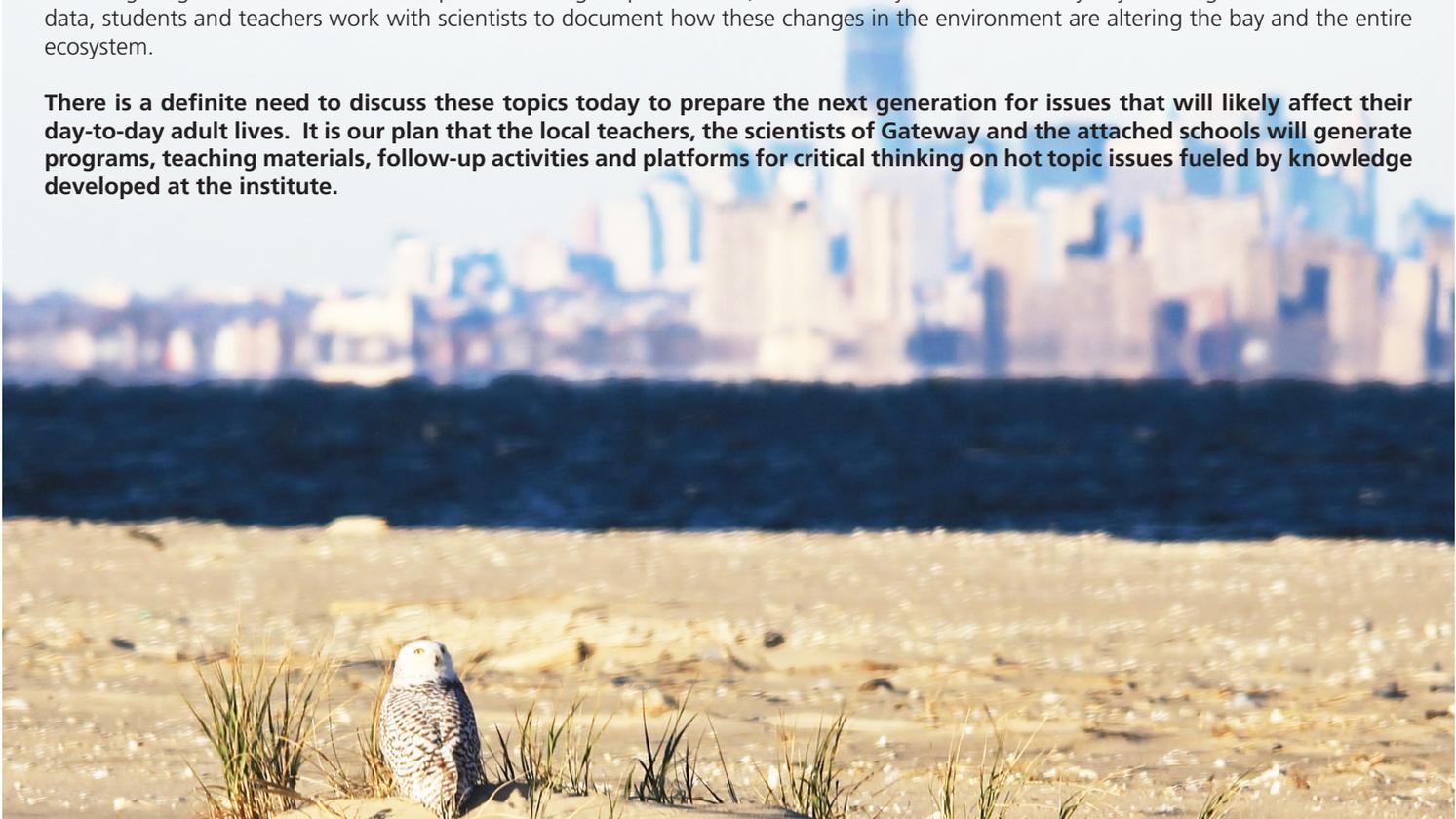
With its variety of rare native habitats including salt marsh, upland field and woods, fresh and brackish ponds, open expanse of bay and islands, Jamaica Bay Wildlife Refuge is internationally renowned as one of the most significant bird sanctuaries and one of the best places in NYC to observe more than 330 species. Specialists will model bird count, and behavioral information used for the placement of nesting boxes and the protection of prime nesting areas. View Osprey feeding behavior locally and Osprey migration across oceans and continents, as it is tracked by satellite and recorded on maps.

JULY 19

Evidence of Environmental Change: Phenology and Invasive Species

Researchers and teachers examine information monitored at Jamaica Bay regarding plant and animal response to climate change. Phenologists gather information about periodic biological phenomena, such bloom cycle at Jamaica Bay. By assisting in the collection of data, students and teachers work with scientists to document how these changes in the environment are altering the bay and the entire ecosystem.

There is a definite need to discuss these topics today to prepare the next generation for issues that will likely affect their day-to-day adult lives. It is our plan that the local teachers, the scientists of Gateway and the attached schools will generate programs, teaching materials, follow-up activities and platforms for critical thinking on hot topic issues fueled by knowledge developed at the institute.



National Park Service
Gateway National Recreation Area

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