

National Park Service
U.S. Department of the Interior

Fire Island National Seashore
Patchogue, New York



7th Biennial Fire Island National Seashore Planning, Science and Research Conference



April 21 and 22, 2010
Patchogue Fire Department
15 Jennings Avenue
Patchogue, NY 11772

Fire Island National Seashore's 7th Biennial Planning, Science and Research Conference is on **Wednesday April 21st** and **Thursday April 22nd**, 2010. Previously scheduled to be held at the National Park Service's new Patchogue Ferry Terminal, it has been moved to the community room at the Patchogue Fire Department, in the Village of Patchogue, New York.

The conference, free and open to the public, provides an opportunity for members of the general public, local officials and the scientific community to learn about recent natural resource topics at Fire Island National Seashore. Experts from academia, government, and conservation organizations provide oral and poster presentations on topics related to planning, inventory, monitoring and research projects. Attendees gain insight into how the National Park Service uses science to guide management decisions. Special to this year, the first day of the conference is devoted to topics specific to the Great South Bay.

Additional information at is available at: www.nps.gov/fiis/scienceconference.htm. **Seating is limited. Please register** for each day or both days **by April 16, 2010**, at FIIS_Science_Conference@nps.gov, by calling 631- 687- 5030.

Directions to the Patchogue Fire Department from the Long Island Expressway (I- 495)

- Take **Exit 61 South** (Patchogue- Holbrook Rd.) *approximately 5 miles*
- Stay straight over **Sunrise Highway** (NY27)
- Patchogue- Holbrook Rd turns into Waverly Ave. Follow traffic circle left past Briarcliff College Bear left onto Lake Street (**before** the traffic light)
- Patchogue Fire Department on the right at flashing yellow light (corner of Lake Street and Jennings Avenue)

*Municipal parking lots available on each side of Lake
Local restaurants within easy walking distance*

Fire Island National Seashore – 7th Biennial Science Conference
Schedule of Presentations for Wednesday, April 21, 2010 — Great South Bay Day

8:00 a.m.	REGISTRATION & COFFEE	
9:00 a.m.	<i>Welcome/Orientation</i>	Chris Soller, Superintendent Fire Island National Seashore
9:15 a.m.	<i>Beyond Brown Tide: Dynamics of Phytoplankton Communities across Great South Bay and Implications for Marine Resources</i>	Christopher Gobler SUNY Stony Brook University
9:35 a.m.	<i>What does the Great South Bay's Designation "Impaired Waters" Mean?</i>	Karen Chytalo NYS Department of Environmental Conservation
9:55 a.m.	<i>Effect of a Prolonged Brown Tide on Interannual Seagrass Densities within Great South Bay, New York</i>	Bradley Peterson SUNY Stony Brook University
10:15 a.m.	<i>5 Year Trend Analysis (2004-2009) of the Water Quality Monitoring Program for the Great South Bay and Adjacent Waters, Fire Island National Seashore</i>	John Tanacredi Dowling College
10:35 a.m.	BREAK AND POSTERS	
11:00 a.m.	<i>Submarine Groundwater Discharge to Great South Bay</i>	John Bratton United States Geological Survey, Woods Hole
11:20 a.m.	<i>Organic and Inorganic Nitrogen in Coastal Groundwater: A Potential Link to Great South Bay Brown Tides?</i>	Kevin Kroeger United States Geological Survey, Woods Hole
11:40 a.m.	<i>Water Quality Q & A</i>	
12:00 p.m.	LUNCH, ON YOUR OWN	
1:30 p.m.	<i>Is it Possible to Restore Hard Clams to the Great South Bay, New York, after 30 Years of Decline?</i>	Carl LoBue The Nature Conservancy
1:50 p.m.	<i>Recreational Clamming Survey of Great South Bay, Long Island, New York, 2008</i>	Greg Green Cashin Associates, PC
2:10 p.m.	<i>The Ecological Role of Salt Marsh Mosquito Ditches and Implications for Restoration</i>	Sarah Corman University of Rhode Island
2:30 p.m.	BREAK AND POSTERS	
2:50 p.m.	<i>Remote Sensing of Terrestrial and Submerged Aquatic Vegetation in Fire Island National Seashore</i>	Y.Q. Wang University of Rhode Island
3:15 p.m.	<i>A Dredge Material Management Plan for the South Shore Estuary Reserve</i>	Barry Pendergrass NYS Department of State
3:35 p.m.	<i>Bayside Shoreline Changes</i>	Karl Nordstrom Rutgers University
3:55 p.m.	<i>Sediment Accumulation Rates and Short-Lived Radionuclide Inventories in Great South Bay Sediments</i>	Alisha Renfro SUNY Stony Brook University
4:15 p.m.	<i>Concluding Remarks</i>	Michael Bilecki Fire Island National Seashore
4:20 p.m.	ADJORN FOR THE DAY	

**Fire Island National Seashore – 7th Biennial Science Conference
Schedule of Presentations for Thursday, April 22, 2010**

8:00 a.m.	REGISTRATION & COFFEE	
9:00 a.m.	<i>Fire Island National Seashore Biotic Resource Synthesis Report Development</i>	Carol Lynn Trocki University of Rhode Island
9:15 a.m.	<i>Energy and Climate Leadership in the National Park Service</i>	Shawn Norton NPS Park Planning, Facilities and Lands- Washington DC
9:35 a.m.	<i>Coastal Resilience: Interactive Tools for Adaption to Sea Level Rise and Storm Hazards on Long Island, New York</i>	Sarah Newkirk The Nature Conservancy
9:55 a.m.	<i>Human Interaction with the Coastal Geomorphology of Fire Island</i>	Norbert Psuty Rutgers University
10:15 a.m.	<i>Impacts of Beach Scraping and Human Modifications to the Coastal System, Fire Island National Seashore</i>	Cheryl Hapke United States Geological Survey, Woods Hole
10:35 a.m.	BREAK AND POSTERS	
11:00 a.m.	<i>Fire Island National Seashore's General Management Plan</i>	Ellen Carlson National Park Service, Northeast Region
11:20 a.m.	<i>Inner Shelf Morphologic Controls on Patterns of Shoreline Change, Fire Island, New York</i>	Cheryl Hapke United States Geological Survey, Woods Hole
11:40 a.m.	<i>Trend in Foredune Crestline Displacement, Fire Island National Seashore, 1976-2005</i>	Norbert Psuty Rutgers University
12:00 p.m.	LUNCH ON YOUR OWN	
1:30 p.m.	<i>Post-Storm Redevelopment Planning and Community Resilience</i>	Patricia Bowie NOAA, intern with NYS-DOS Community Resilience
1:50 p.m.	<i>Status of PZP Treated Deer Populations in Western Fire Island Communities</i>	H. Brian Underwood SUNY College of Environmental Science & Forestry and USGS, Patuxent
2:10 p.m.	<i>Herpetofauna of Fire Island and the William Floyd Estate: 20th Century Changes and Future Prospects</i>	Robert Cook Cape Cod National Seashore
2:35 p.m.	BREAK AND POSTERS	
2:55 p.m.	<i>Resource Management at Fire Island National Seashore: Current Monitoring Programs</i>	Jordan Raphael & Lindsay Ries Fire Island National Seashore
3:25 p.m.	<i>What is SEANET and Why Fire Island?</i>	Peg Hart Seabird Ecological Assessment Network
3:45 p.m.	<i>Trends in Raptor Migrations based on Hawk Watch Data from Fire Island</i>	Drew Panko Fire Island Raptor Enumerators
4:05 p.m.	<i>Concluding Remarks</i>	Michael Bilecki Fire Island National Seashore
4:15 p.m.	THANKS FOR ATTENDING!	

**Fire Island National Seashore – 7th Biennial Science Conference
Posters Displayed – Both Days**

<i>Effects of Bulkheads on the Bay Shore of Fire Island National Seashore</i>	Karl F. Nordstrom Rutgers University Nancy L. Jackson New Jersey Institute of Technology
<i>Restoring Bayside Sediment Transport Processes at Fire Island National Seashore</i>	Patti Rafferty National Park Service Karl F. Nordstrom Rutgers University Nancy L. Jackson New Jersey Institute of Technology
<i>Rip Current Characteristics at the Fire Island Seashore</i>	Ashley Norton Michael Slattery SUNY Stony Brook University
<i>Genetic diversity and gene flow in Zostera marina populations in Great South Bay, New York</i>	Sterling J. Brisbin Bradley Peterson SUNY Stony Brook University
<i>Understanding Horseshoe Crab Population Dynamics in New York and New Jersey National Parks With the Assistance of Citizen Scientists</i>	Patti Rafferty National Park Service Mary-Jane James-Pirri University of Rhode Island
<i>The Northeast Exotic Plant Management Team Control Efforts at Fire Island National Seashore</i>	Brian McDonnell National Park Service
<i>Weathering Climate Change and Managing Invasive Species in Urban Forests of Long Island, New York</i>	Kathy Schwager The Nature Conservancy Jordan Raphael National Park Service
<i>Deer, People, and Parks Perspectives of Residents in Communities Near Fire Island National Seashore</i>	Kirsten M. Leong, Daniel J. Decker, and William F. Siemer National Park Service
<i>The New York 4-Poster Deer and Tick Study</i>	Daniel Gilrein Cornell Cooperative Extension of Suffolk County Susan Walker Cornell University