

Please register by September 24

by faxing this form to: (631) 224-7653

or by mailing to:

Central Pine Barrens Commission
P.O. Box 587
Great River, New York 11739-0587
(631)224-2604

Please check the appropriate boxes:

- I will attend the seminar on October 4
 I will attend the Student Science Symposium on
October 5
 I would like to attend the field trip on October 5

Name: _____

Representing: _____

Address: _____

Phone: _____

Fax: _____

Email: _____

Directions to Brookhaven National Laboratory: Take LI Expressway (Rt. 495) to Exit 68 north (Wm. Floyd Parkway) and drive north approximately 1.7 miles. Turn right into the Laboratory's main entrance. Stop at the booth to check in. Valid photo identification is required. Proceed to the light, turn left onto Upton Road, right onto Brookhaven Ave., and Berkner Hall Auditorium is on the left. Free parking is available adjacent to Berkner Hall.

Central Pine Barrens Joint Planning & Policy Commission
P.O. Box 587
Great River, NY 11739

Seventeenth Annual Pine Barrens Research Forum



October 4 & 5, 2012
Brookhaven National Laboratory
Berkner Hall
Upton, New York

Sponsored by:

Brookhaven National Laboratory,
Central Pine Barrens Commission,
L.I. Groundwater Research Institute
at Stony Brook, and the Foundation for
Ecological Research in the Northeast

Pine Barrens Research Forum 2012

Thursday, October 4

8:30 am - Registration & Coffee

9:00 am - Welcome

Peter A. Scully, Chair, Central Pine Barrens Commission and Regional Director, N.Y.S Department of Environmental Conservation

John W. Pavacic, Executive Director, Central Pine Barrens Commission

Samuel Aronson, Director, Brookhaven National Laboratory

Frank Crescenzo, Acting Manager, Brookhaven Area Office, U.S. Department of Energy

9:15 am - Sustainability metrics, assessment and planning for landscapes.
Rachel Aronson, University of Oregon

9:40 am - Hidden risk: Mercury in terrestrial ecosystems of the Northeast.
David Evers, Executive Director/Chief Scientist, Biodiversity Research Institute

10:05 am - Planned diversion of Brookhaven National Laboratory's sewage treatment plant effluent from Peconic River to nearby groundwater recharge basins. *Douglas Paquette*, Hydrologist and *Timothy Green*, Natural & Cultural Resource Manager, Brookhaven National Laboratory

10:30 am - Break and Poster Session

10:45 am - Out of sight, out of mind: The challenge of source water protection for groundwater. *Carrie Meek Gallagher*, Chief Sustainability Officer, Suffolk County Water Authority

11:10 am - Monitoring hydrologic conditions in the Pine Barrens of eastern Suffolk County, New York. *Andrew D. Lange*, Hydrologist, USGS New York Water Science Center

11:35 am - Fall migrant song birds and radioisotope detection in feathers. *Neil Gifford*, Conservation Director, Albany Pine Bush Preserve Commission

12:00 pm - Lunch

1:00 pm - Afternoon Keynote: A new species of leopard frog from the urban northeastern United States. *Jeremy Feinberg*, Ph.D. Candidate, Rutgers University

1:45 pm - Novel ecosystems: Hope or hype? *Marilyn Jordan*, Senior Conservation Scientist, The Nature Conservancy

2:10 pm - Connectivity modeling for selected conservation targets on Long Island and in the Hudson Valley. *Timothy G. Howard*, Director of Science, New York Natural Heritage Program

2:35 pm - Afternoon break

2:50 pm - Understanding the role of microorganisms in the soil of Long Island Pine Barrens. *Vishal Shah*, Associate Professor of Biology, Dowling College

3:15 pm - The past is present: Archaeological resources of the Wertheim National Wildlife Refuge. *Dianna L. Doucette*, Senior Archaeologist, Public Archaeology Laboratory

3:40 pm - Radio telemetry and home range analysis of southern flying squirrels at Brookhaven National Laboratory. *Jennifer Higbie*, Wildlife Biologist, Brookhaven National Laboratory

4:05 pm - Closing: Fire and recovery. *Timothy Green*, Natural & Cultural Resource Manager, Brookhaven National Laboratory (optional walk to wildfire area)

Friday, October 5

8:00 am - 10:00 am

Student Science Symposium

A day in the Life of the Carmans River

On September 28th, 2012 five high schools in the Central Pine Barrens will explore and collect data from various locations along the Carmans River - from the headwaters to the mouth. A primary goal is to connect Long Islanders to nature and to help prepare students to become stewards of the river's water quality and natural resources. Students will use hands-on field techniques to describe their sites, catch fish in nets, collect water and invertebrate samples, and examine water chemistry parameters. Join us to discuss the experience with some of the participating students and teachers. We will have some data available for preliminary discussion. In addition, through a web conference, our Migliarino - San Rossore - Massaciuccoli (MSRM) twinned Park in Pisa, Italy and our partner Italian school, Istituto Techio Industriale (ITI), will be on hand to discuss their river (Fiume Morto) and data collected on the same day.

10:30 pm - 12:00 pm

**Wertheim National Wildlife Refuge
Visitor Center
Shirley, NY**

Join U.S. Fish & Wildlife Service staff members for a tour of the Wertheim National Wildlife Refuge Visitor Center and Headquarters, which celebrated its grand opening in May of 2012. The visitor center highlights the ten national wildlife refuges on Long Island, and features interactive exhibits and hands on activities. Hike all or part of the new Black Tupelo Trail which offers spectacular views of the Carmans River and highlights the diverse Pine Barrens habitat - bring your binoculars! Limited to the first 25 registrants.



Swan Pond

Calverton, NY