



Announcing the Sixth Annual Barnegat Bay Environmental Educators Roundtable

Featuring an array of hands-on and interactive activities and field trips to motivate teachers to incorporate Barnegat Bay Watershed topics into their curriculum.

When? Wednesday, April 30, 2003 • 4:00 pm - 8:00 pm
Registration Fee \$10; Register by April 11, 2003

Where? Beachwood Community Center – on the Toms River

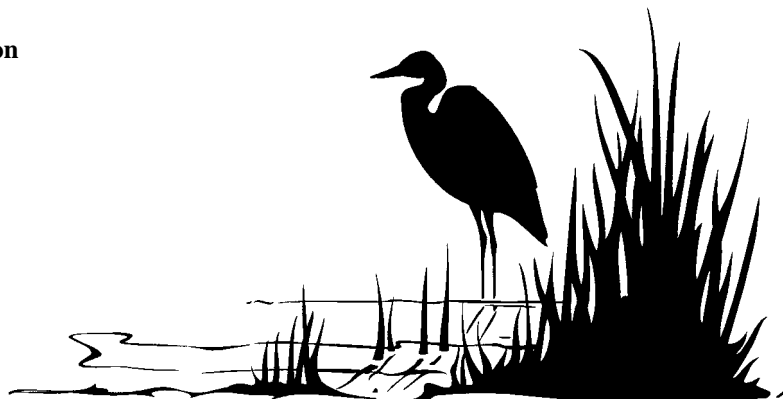
*Come join us for what promises to be an informative and adventurous program:
exploring our watershed, networking with environmental educators,
gathering resources, ideas and lesson plans to take back to your schools.*

Resource Sharing Table & Door Prizes

Three Professional Development Hours will be Awarded at the End of the Program

Sponsored by the Ocean County Soil Conservation District and the following:

Alliance for a Living Ocean
American Littoral Society
Barnegat Bay Estuary Program
Barnegat Bay Watershed & Estuary Foundation
Clean Ocean Action
Institute of Marine and Coastal Sciences
Jacques Cousteau National Estuarine Research Reserve
Jenkinson's Aquarium
Ocean County College
Ocean County Department of Parks and Recreation
Ocean County Vocational - Technical School
New Jersey Audubon Society
NJDEP - Division of Fish and Wildlife
NJDEP - Division of Parks and Forestry
NJDEP - Division of Watershed Management
New Jersey Forest Resource Education Center
New Jersey Marine Sciences Consortium
Rutgers Cooperative Extension of Ocean County
Stafford Township School District
Tuckerton Seaport



*Please join us for this Watershed Education Program and Dinner
Additional Details Inside...*

ACTIVITY DESCRIPTIONS

All of the activities being presented are part of the new Barnegat Bay Watershed Activity Guide. Choose from a variety of field trips or join in a multitude of activities at the Community Center. You will be able to select one field trip or two Community Center activities. Whatever your choice, be prepared to participate in hands-on activities that you can easily integrate into your existing curriculum. All activities will be held rain or shine, so please dress appropriately. Registration form also available on-line at www.ocscd.org or for additional information call (609) 971-7002.

Community Center Activities

A. Those Amazing Horseshoe Crabs and Shorebird Silhouettes

Horseshoe crabs are not crabs at all but are more closely related to spiders, scorpions and ticks. These “living fossils” have changed little in the last 360 million years. If that isn’t amazing enough, they have 10 eyes (none of which see very well), blue blood (that has saved your life) and lay 100,000 eggs every spring. There is nothing ordinary about these animals! Through the use of live animals, molts, and detailed models available from the Tuckerton Seaport for school use, participants will explore these unique animals and learn how to bring these ancient mariners to life in the classroom. No discussion of horseshoe crabs would be complete however, without describing their connection to migrating shorebirds. Although these tiny birds are protected today, NJ’s market gunners supplied city restaurants with thousands of shorebirds every year until 1918. To attract the birds within range of their guns, hunters often used silhouette or “flattie” decoys. Participants will learn about shorebird migration and conservation, the critical link to horseshoe crabs and the cultural history associated with shorebird hunting along the Jersey Shore. Due to time constraints, participants will make a paper flattie, but will also receive instructions to help students create wooden decoys in the classroom.

Presenters: Trish Schuster and Beth Huch, Tuckerton Seaport

B. Songs to Learn By – Telling a Story with Music and The Changing Tides & Tucker’s Island

Songs can be a motivational method for learning about a region. Join renowned singer and songwriter Valerie Vaughn as she weaves her magic and teaches about Barnegat Bay’s unique environment and cultural history. Valerie’s infamous song “Tucker’s Island” is utilized as a fine example of how to “tell a story with music.” Students are then directed to create their own lyrics to an original shanty or folk song about a Barnegat Bay topic or theme. Coupled with this, an original lesson plan, developed by Cynthia Hess, will chronicle the demise of Tucker’s Island. Together, these two lessons provide an opportunity to teach about a unique and historical feature of our watershed, while incorporating music, visual arts, science, social studies, mathematics and language art.

Presenters: Valerie Vaughn, Singer and Songwriter
Cynthia Hess, Science Teacher, Medford Public Schools

C. A Little Piece of History and What’s in a Name?

What we have in Barnegat Bay has been influenced and shaped by what came before. Take a journey through time and discover the history of settlement throughout our region beginning in the 1500s through the present. Significant events are presented and a timeline is created to illustrate the evolution and growth of the region. In addition, another activity entitled “What’s in a Name?” will be presented. Many of the places, towns, and neighborhoods within the Barnegat Bay watershed are named for the natural features of the area. Many towns are named for people that settled them or had a significant role in settling of the area. Becoming more aware of the names that places are given, and the reasoning behind names, can increase awareness about the natural and cultural history of the Barnegat Bay watershed and our connections to it.

Presenters: Elizabeth Faircloth and Francesca Angiuoli, Forest Resource Education Center

D. Does the Barnegat Bay Affect Our Weather? and Bringing the Weather Indoors

Part of the “shore” attraction of Barnegat Bay and Ocean County is the cooling effect of the ocean and bay. This hands-on experiment will provide students with the scientific explanation to accompany this phenomenon and give them an understanding of how coastal weather differs from inland weather. In addition, participants will discover how to bring the weather to life as part of their classroom experience and have their students become expert forecasters. Weather is something that “happens” every day, learn how to tap into the resources available, and teach everything from science to language arts and technology and math.

Presenters: Claire Antonucci, NJ Marine Sciences Consortium
Carol Elliot, Alliance for a Living Ocean

Field Trip Activities

E. Watersheds – From Top to Bottom

Join staff members from Ocean County Parks and Recreation, Jenkinson’s Aquarium and the MATES program to examine a slice of the Barnegat Bay Watershed. Our journey will encompass the maritime forest, the tidal salt marsh and the Toms River. Each ecosystem will be explored through various sampling techniques including seining and water quality observation. Participants will get wet and muddy so please dress appropriately.

Presenters: Cindy Claus, Jenkinson’s Aquarium
Chris Claus, Catus Island County Park
John Wnek, Ocean County Vocational-Technical School, MATES Program

F. Fire Ecology

Explore a recently burned forest and examine the rebirth of growth following a recent wildfire. Gain hands-on experience in gathering field data such as soil conditions, effects of fire, human impacts, biological succession, hydrology and topography. Participants will map and catalog four quadrats at different locations in nearby Jakes Branch County Park. Please dress appropriately and wear sturdy walking shoes.

Presenters: Terry O’Leary, Forest Resource Education Center
Mickey Coen and German Georgieff, Wells Mills County Park

G. Birds of the Seashore

Bird life abounds along the coastal shoreline of Ocean County and along the edge of Barnegat Bay. Mud flats, marshy pools and banks, and sand bars rich in small burrowing and wave cast animals are prime shorebird habitats. Some birds, notably the sanderling, favor the oceanfront itself, others can be found along the edge of every river, stream, or tidal creek flowing into the bay. In all these places, mixed flocks of shorebirds may be seen while the tide is down, feeding together with busy probings, and the sight of a solitary heron or egret posed for spearing a fish is common. Join this field trip for a first-hand look at these birds and learn the secrets of identification from the pros. Classroom activities included as part of this field experience. Please dress appropriately and wear walking shoes.

Presenters: Sue Canale, NJDEP – Division of Fish and Wildlife
Michelle Urban, Wells Mills County Park
Brian Vernachio, NJ Audubon Society

H. What are Stormwater Management Ponds? and Can Dirt Make Water Clean?

Rain, runoff, and recharge – these are all an integral part of the water cycle at work in our watershed. Stormwater management ponds – also called basins—are everywhere you look. In fact, there is most likely one on your school property! These structures offer an opportunity for students to learn, first hand, how and why we need to manage stormwater runoff to protect the integrity of our watershed’s water quality. Healthy soil is an integral part of any effective stormwater management system and soil studies offer a variety of applications for students in the classroom. Proper maintenance and enhancement of these structures can be an exciting learning experience for students and teachers alike. Converting and ineffective basin into a “Rain Garden” can help curtail the pollutants entering our waterways, and eventually our bay. Please dress appropriately.

Presenters: Chris Smith and Janice Reid, USDA - Natural Resource Conservation Service
Bob Mancini, NJ DEP - Division of Watershed Management

ROUNDTABLE REGISTRATION FORM
Registration Deadline April 11, 2003

Name _____ Grade Level(s) _____

Home Address _____

Telephone (home) _____ (school) _____

School _____

Select ONE Field Trip or TWO Community Center Activities

COMMUNITY CENTER ACTIVITIES

Select Two and an Alternate

- A. Those Amazing Horseshoe Crabs and Shorebird Silhouettes
- B. Songs to Learn By - Telling a Story with Music and The Changing Tides & Tucker’s Island
- C. A Little Piece of History and What’s in a Name?
- D. Does the Barnegat Bay Affect Our Weather? and Bringing the Weather Indoors

Choices: _____ Alternate: _____

FIELD TRIP ACTIVITIES

Select a first, second and third choice

- E. Watersheds—From Top to Bottom
- F. Fire Ecology
- G. Birds of the Seashore
- H. What are Stormwater Management Ponds? and Can Dirt Make Water Clean?

Choices: 1st _____ 2nd _____ 3rd _____

Registration Fee: \$10 payment must accompany registration form. No purchase orders or vouchers. No refunds. Make checks payable to: Ocean County Soil Conservation District

Mail to: Ocean County SCD, 714 Lacey Road, Forked River, NJ 08731

**Beachwood Community Center
147 Compass Avenue
Beachwood, NJ 08722**

GSP - SOUTH

Exit 80 - Beachwood — Bear right towards traffic light at Parkway North entrance and Route 9 South. Continue in right lane onto Route 9 South. At 2nd traffic light, turn left on to Admiral Avenue. Go one (1) block to next light at Route 166 & Admiral Avenue.

Cross over to Starboard Avenue (between Rite Aid and Bicycle Shop). Continue down to Compass Avenue (approx. four (4) blocks), turn right ... Community Center will be on your left about one (1) block away.

GSP - NORTH

Exit 81 - Toms River — Stay straight off exit. Continue to 2nd traffic light at Route 166 and Water Street (Motel on right, 7-11 store on left). Turn right at light and continue on Route 166 to next traffic light (Rite Aid & Bicycle Shop). Turn left and follow directions in **bold print** above.

ROUTE 9 NORTH ...

... to Route 166 in Beachwood. Turn right at the traffic light at Beachwood Boulevard. At end of road, turn left along water. Community Center at head of marina.

ROUTE 9 SOUTH ...

... becomes Route 166 in Toms River. Continue south into Beachwood. Turn left at traffic light on Admiral Avenue and Route 166 (Rite Aid and Bicycle Shop). Follow directions in **bold print** above.

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