

**FREE**

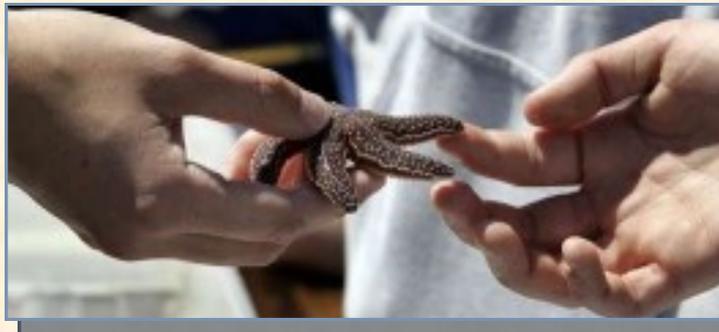
**PROGRAM**

*28th Annual*

# Student Summit



Central/Southern NJ  
Middle Schools (Grades 5-8)  
October 6, 2016



Application

Deadline:

September 16, 2016

**SCIENCE CAN BE A DAY AT THE BEACH!**

# A Seaside Symposium:

## Student Summit 2016 Activities

### **Student Activities Overview**

#### **Introduction to Diamondback Terrapins**

Terrapins are turtles that inhabit estuaries along the east and Gulf coasts of the United States. Terrapins were harvested in the late 1800's through the early 1900's as a food source with a high demand leading to reductions in their populations across their range. Students learn about the life history of this species, interesting variations in their marking attributed to genetic diversity, its role in the ecosystem, and how we have impacted the species. Researchers in the field will also provide a brief discussion about diamondback terrapin conservation and wildlife practices. Students will be shown the proper way to hold and handle the terrapins so they can get a closer look at this interesting species.

#### **Activity Roundtable:**

#### **Environmental Extravaganza!**

The roundtable portion of the Student Summit includes an interactive series of work stations with a variety of hands-on activities for students to learn about the environment. Some of the topics covered may include meteorology, marine invertebrate anatomy and identification, nonpoint source pollution, and solar energy.

#### **Field Workshops**

Schools and classes will be divided and students will participate in one of the field activities. The goal is that each school will have students who have attended all field workshops. Examples of workshops include:

#### **Project Terrapin**

Students will continue to learn about the history, biology, research and conservation of terrapins.

#### **Marine Water Quality Monitoring**

Monitoring of surface water quality is an important source of information used by scientists and environmental managers to characterize water resources, identify water quality problems and trends, and develop water quality management strategies. Participating students will learn about the water quality approach to aquatic resource assessment by collecting and analyzing water samples.

#### **Exploring IBSP from Ocean to Bay**

Island Beach State Park is a natural barrier beach at the southern tip of the barrier island.

On a walk from the Atlantic Ocean side to the Barnegat Bay side of the park, a group of students led by a naturalist will explore the features of a fully developed dune environment and observe succession. Tice's Shoal and Fisherman's Walkway provide a cross section of a barrier beach.

#### **Birds of the New Jersey Shore**

New Jersey is within the Atlantic Flyway, providing a diverse viewing of coastal birds throughout the year. Students will join local birding experts in a survey and identification of coastal birds as part of their workshop.

#### **Seining and Marine Animal Identification**

New Jersey's estuaries offer a variety of habitats as important breeding, feeding, and nursery grounds for a diversity of fish and invertebrate species. Many of these species spend only a part of the year in area waters, while other species reside year-round within certain coastal habitats. Students will use seine nets and sieves to collect fish and invertebrates to capture, observe, and identify common marine animals found in the local bays.

#### **Understanding Marine Debris**

Marine debris includes trash and other objects that get into the marine environment as a result of careless handling and disposal. The problem of marine debris has emerged as a critical environmental issue worldwide. Debris in the marine environment is not only aesthetically unpleasant, but it can harm marine life and litter the shore. Students will learn about the types, quantities, and sources of marine debris plaguing our coastal region and participate in a cleanup.

#### **Clean Ocean Action**

**18 Hartshorne Drive, Suite 2**

**Highlands, NJ 07732**

**Telephone: 732-872-0111**

## Clean Ocean Action's

### 28th Annual Fall Student Summit

#### Terms of Participation:

The program is **free** to all participants. However, **schools must provide their own transportation and lunches**. To ensure a commitment from your school, a **refundable deposit of \$100** must be sent with the application. The deposit will be returned upon your completion of the post-Summit evaluations. Space is limited. Therefore, COA has established the following guidelines. In submitting this application, you must understand and agree to the terms of participation:

- ◆ Maximum number of students from each school is **30**.
- ◆ Students, teachers, and chaperones are assigned to workshops in the Summit. Students and chaperones will be separated and divided among all field trips so that each school will have students who have attended all activities. Students will be mixed with other schools. No changes will be allowed.
- ◆ **Arrival time is by 8:45 am sharp. Departure time is anytime after 12:30 PM. If schools are unable to arrive promptly at 8:45 am, schools should not apply. Late arrivals may be put into a modified program.**
- ◆ Schools are responsible for their own transportation to and from the Summit.
- ◆ All students, teachers, and chaperones must bring their own lunch. Facilities to buy lunch are not available. Light snacks and drinks will be provided by COA.
- ◆ Schools must bring **1** chaperone/teacher per **5** students. **Chaperones will be required to assist in monitoring students from all schools during the Summit. Teachers, please pass along these terms to chaperones!**
- ◆ COA reserves the right to exclude or limit participation to anyone whose behavior or dress (*see below*) is inappropriate or disruptive to any students' learning experiences.
- ◆ Teachers and students must demonstrate a desire to learn about the marine environment (*see application*).
- ◆ Participation is limited to a total of **500** students each day.
- ◆ Students must bring their own pencils and clipboards.
- ◆ COA will provide schools with bags for their trash (black) and recyclables (white) for lunch. Schools must bring their garbage bags out of the park and back to school for proper disposal.
- ◆ Students, teachers, and chaperones may be photographed or filmed by COA during the Summit. Teachers must notify COA before the Summit if any student(s) cannot be photographed. Students who cannot be photographed must complete a Non-Permission Release Form, and the teacher must present it to COA staff on the day of Summit.

#### About the Summit:

The Student Summit expands learning beyond the classroom. It is designed to provide middle school (Grades 5-8) students who come from different areas of the state with an opportunity to experience hands-on, marine environmental education at the Jersey Shore. The activities included in the Summit have been selected to present students with an interdisciplinary marine and environmental education experience.

#### Who can apply:

##### **Schools located in Southern NJ Counties**

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Ocean & Salem.

#### Summit Location:

Island Beach State Park—Seaside, NJ Applications accepted through **September 16, 2016**.

#### How To Apply — *Three Easy Steps*

##### **Step 1: Agree to Terms of Participation**

Carefully review the terms. Send the initialed and signed copy of the terms in with the application. They work to ensure all participants have a productive day.

##### **Step 2: Complete Application Form**

Complete the application form. Mail form (with refundable deposit) to *be received by Clean Ocean Action by **September 16, 2016***

##### **Step 3: Send Application with**

**\$100 Refundable Deposit to:** Clean Ocean Action, "Student Summit," 18 Hartshorne Drive, Highlands, NJ 07732. You will be advised about acceptance approximately two weeks prior to the event. In the meantime, we suggest you make bus reservations and arrangements and receive the necessary approval from your school.

#### Costs/Refund:

The program and all materials are **free**. To ensure a commitment from your school, a refundable deposit of \$100 is required with your application. **The deposit will be returned upon your completion of the post-Summit evaluations.** Transportation and lunch must be provided by participants.

#### Dress Requirements:

Coastal locations are usually cold and windy. Advise the students to dress according to the weather, bring additional layers of clothes, and wear sneakers or hiking shoes. COA reserves the right to exclude or limit participation to anyone whose dress is inappropriate.

#### Weather Advisory - **No Rain Date**

Appropriate outerwear is mandatory; noncompliance may result in the student's participation being restricted by staff. In the case of *extreme* wet weather, the Student Summit will take place primarily indoors with a modified program. Be advised that some limited activities will still occur outside.

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**School name:** \_\_\_\_\_ **Teacher Name:** \_\_\_\_\_

I understand and have initialed the Terms of Participation

Teacher Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*Please return initialed and signed Terms of Participation with your completed application by September 16<sup>th</sup>.*

# Fall 2016 STUDENT SUMMIT APPLICATION

Teacher/Advisor Name \_\_\_\_\_

School \_\_\_\_\_

Phone # \_\_\_\_\_

Fax # \_\_\_\_\_

Cell Phone # (Day of Summit) \_\_\_\_\_

Email address \_\_\_\_\_

Address \_\_\_\_\_

City/Town \_\_\_\_\_

Zip Code \_\_\_\_\_ County \_\_\_\_\_

**Number of Students (30 maximum) \_\_\_\_\_ Grade Level(s) \_\_\_\_\_**

**Number of Teachers *and* Chaperones (1 per 10 students) \_\_\_\_\_**

***Space is limited. Acceptance into the program is determined based on the answers to these important questions.***

***Attach more pages if necessary.***

Describe how you integrate environmental education into your curriculum.

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If environmental education is not a component of your curriculum, briefly discuss how the Student Summit could assist your educational needs.

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What will you do with lessons learned at the Student Summit?

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I have reviewed and agree with the Terms of Participation. I am sending that document in with my the application.

**Return this application along with \$100 refundable deposit and signed Terms of Participation by September 16th to:**

**Clean Ocean Action, Student Summit, 18 Hartshorne Drive, Suite 2, Highlands, NJ 07732**