

REGISTRATION FORM

Please list your top program choices. We will do our best to accommodate your request. Space and sessions are limited.

	Session 1	Session 2	Session 3	Session 4
1st Choice				
2nd Choice				

Brochure source: _____ NJMEA Newsletter
(check one) _____ ANJEE Conference
_____ NJSTA Conference
_____ Other (Please specify)

Please check one:

_____ I have enclosed \$75.00 for conference registration cost and an annual membership to NJMEA

_____ I will not be able to attend this year's conference but would like to renew my annual NJMEA membership and have enclosed \$20.00.

_____ No check enclosed. (School purchase order).

Please print neatly for our membership files:

Name: _____

Address: _____

Phone: _____

Email: _____

School/Organization: _____

Grade Level: _____

**Please send this form and check made payable to:
NJMEA**

PO Box 1149

Manahawkin, NJ 08050

No registrations accepted after May 1, 2012. No walk-ins accepted.

Confirmation of your registration, program updates, scholarship opportunities, and additional information can be found on our website:

<http://www.NJMarineEd.org>

KEYNOTE SPEAKER

Dr. Angela Cristini

Angela Cristini received her Ph.D. in Biology from the City University of New York. She is a Professor of Biology at Ramapo College of New Jersey and is the Executive Director of Special Programs. Dr. Cristini is involved in science education; she has been the project director for grants from the National Science Foundation the New Jersey Department of Education which utilize technology to improve the teaching of environmental and earth science in elementary schools in the NY/NJ metropolitan area. She was invited to serve on a panel of the National Academy of Sciences to address Informal Science Education. Her environmental research examines the effects of toxic chemicals on the physiological processes and growth in blue crabs and lobsters as well as in fresh water and estuarine mollusks.

SCHEDULE OF EVENTS

8:30 – 9:00 am Registration
9:00 – 9:30 am Annual Meeting
9:30 – 10:00 am Keynote Address
10:00 – 11:00 am Session One
11:05 – 12:05 pm Session Two
12:05 – 12:45 pm Lunch
12:45 – 1:45 pm Session Three
1:50 – 2:50 pm Session Four
3:00 pm Certificates and Door Prizes

DIRECTIONS

The Meadowlands Environment Center is located at:
2 DeKorte Park Plaza, Lyndhurst, NJ 07071

From Garden State Parkway: From Parkway North, take Exit 153A; or from the Parkway South, take Exit 153 to Route 3 East. Follow Route 3 East to the Route 17 South//Lyndhurst Exit. Follow around the ramp to the traffic light (Quality Inn will be on your left). Make a left onto Polito Avenue. Make a left onto Valley Brook Avenue and follow to the end (approx. 1 ½ miles). Cross the railroad tracks (keep to the left).

From NJ Turnpike: Take exit 16W to Route 3 West. Take Route 3 West to Route 17 South (Lyndhurst Exit). Then follow directions above.

For more information, call (201) 460-8300 or visit <http://moodle.rst2.edu/meadowlands>

New Jersey Marine Education Association



TEACH AT THE BEACH

A professional development opportunity for educators

Friday, May 18th, 2012

Hosted by

Meadowlands Environment Center

A New Jersey Meadowlands Commission Facility
Operated by Ramapo College of NJ

Earn six professional development credits while learning about the environment (NJDOE Provider #999)

This popular program is limited to 125 participants, so register early!

For more information, visit us at:
<http://www.NJMarineEd.org>

1. Urban Estuary Ecology for Middle/High School **

Be introduced to the Meadowlands as a living lab of estuary ecology and human impacts. Dress for a mess as our staff shares time-tested field experiences, including water testing, seining, and dip netting. Appropriate content and activities for different grade levels will be shared. (Middle/High, 2 hours) **Session 1+2**

2. Estuary Ecology for Elementary School **

Explore our local salt marsh habitat in this program targeting younger learners and standards. Elementary water tests, “critter collections”, and food chains will be shared with ideas for classroom connections. Dress for a mess! (Elem, 2 hours) **Session 1+2**

3. Plankton A’Plenty **

An introduction to the diversity and role of plankton in estuaries. Program includes a short field hike to collect plankton, and then return to the lab to identify samples under a microscope. (Elem/Middle, 1 hour) **Session 1**

4. Design-a-Drifter – Plankton Extended Version **

An introduction to plankton as a “lifestyle”. Take a short hike to collect plankton and return to the lab to identify samples with a microscope. We will also share demos and activities to help students understand and measure density. Teams will then be challenged to “Design-a-Drifter”, creating a neutrally-buoyant plankton with common craft materials. (Elem/Middle, 2 hours) **Session 3+4**

5. Birding in an Urban Estuary **

Discover the diversity of birds that utilize the Meadowlands, either returning in migration or those that never left. Join an experienced guide on an easy hike through the estuary. Bring your own binoculars or borrow a pair from us. (All levels, 2 hours) **Session 1+2**

6. Scientific Illustration

Gain insight into the brain-based rationale for drawing realistically, as well as learning how to make scientific illustrations as a means of making and sharing observations. Participants will be given materials to

share with their classes. (Middle/High, 2 hours)

Session 3+4

7. Stuck in the Muck: A Benthic Lab

Study biotic-abiotic interactions by examining collected samples of benthic creatures under the microscope. No fieldwork required. Participants will be given materials and assessments to take home to their classrooms. (Middle/High, 1 hour) **Session 2**

8. Stuck in the Muck – Field Trip Version **

Study biotic-abiotic interactions by taking a short hike to observe a salt marsh edge and field conditions of benthic organisms, then return to the lab with samples for microscopic examination. Participants will be given materials and assessments to take home to their classrooms. (Middle/High, 2 hours) **Session 3+4**

9. Trash-to-Treasure: The Chemistry of Underwater Artifact Salvage

Find out what happens to wood, metal, and glass in an aquatic environment and how artifacts from the ocean are chemically salvaged and preserved. Participants get to take home what they clean up (including vintage Coke bottles)! (High, 2 hours) **Session 3+4**

10. Building Tour: Green Buildings Ain’t Just Paint!

Take a tour of the Center for Environmental and Scientific Education at the Meadowlands, the first publicly-owned building in NJ to achieve LEED Platinum certification with the U.S. Green Building Council. Learn more about its sustainability features and an overview of the USGBC rating system. (All levels, 1 hour) **Session 2 or Session 3**

11. Universal Instructional Design (UID) for Science

Traditional science materials and instruction often contain inherent obstacles for many students, with or without special needs. Be introduced to principles of UID and its role in increasing how many students “get it” the first time around. View successful models in use at the Meadowlands. (All levels, 1 hour) **Session 1**

12. User-Friendly Field Guides

Anyone who has ever been frustrated with a field guide knows that students, with or without special needs, have an even harder time. Participants will examine accessibility issues with traditional field references and be guided in creating more useful topical guides for universal instruction to all students. (All levels, 1 hour) **Session 4**

13. No More Fish Stories: Gyotaku for Anatomy and Art

Using rubber or real (dead) fish, participants will use classroom materials and techniques to produce fish printings that can be used for art and science. Participants will leave with printed t-shirts that they make in class. (All levels, 1 hour) **Session 1 or Session 2**

14. Maritime History: Celestial Navigation

A brief introduction to historical navigational methods using the sun and night sky, and includes a short tour of the William D. McDowell Observatory and its 20-inch research-grade telescope. (All levels, 1 hour) **Session 3 or Session 4**

15. Increasing Science Literacy in Your Classroom

Make science come alive through literacy. Learn how collaborative and interdisciplinary techniques can make students critical thinkers. Walk away with strategies that will have your students, reading, writing and talking like a scientist! (Elem, 1 hour) **Session 4**

**** Programs marked with asterisks will involve an outdoor field-trip component. Please bring long-sleeve shirt, bottled water, sunscreen, hat, and sneakers.**