



Cape to Cape: In the Hub of Marine Education



**NMEA
Annual
Conference**

June 27–July 3, 2011
Northeastern University
Boston, Massachusetts



Bob Rocha
Chair, NMEA 2011

Dear Friends and Colleagues

The Massachusetts Marine Educators take great pleasure in welcoming all of you to Boston for the 2011 NMEA annual conference. It has been many years since Massachusetts has hosted this annual event. We'd like to think it's worth the wait! This region has a wealth of marine science and education riches. We have worked very hard to bring those to you, or to bring you to them. From Cape Ann to Cape Cod, the impressive collection of universities, research institutions, and education centers continue to help us better understand and teach about the marine resources that bring us together annually.

This week we will hear from leaders from some of those facilities, get better acquainted with a highly endangered species and experience a simulated ocean exploration mission. The opportunities to learn from each other are impressive, with 100+ sessions from which to choose. Once each day's infusion of knowledge is complete, we will make sure you have a chance to connect, make new friends and see some of the sights in this historic city, including one of the Boston Harbor Islands.

Many people were instrumental in helping to organize this conference, including the following Conference Committee Chairs: Gail Brookings (Auction), Lee Anne Campbell (Buddy Breakfast), Howard Dimmick (Field Trips), George Duane (Hospitality), Pat Harcourt (Concurrent Sessions), Erin Hobbs (Buddy Breakfast), Carole McCauley (Volunteers), Joe LaPointe (Hospitality), Sandi Ryack-Bell (Speakers), and Amy Siuda (Housing). Thank you also to Webmaster Doug Corwine.

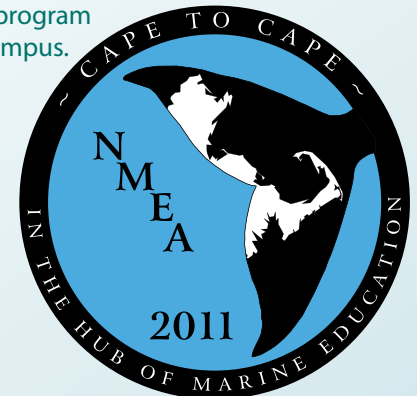
The site for this event, Northeastern University, is a beautiful campus located smack in the heart of the city. Many of the buildings on campus are new or newly renovated. Our 'green' dorm building, International Village (INV) is only two years old and received LEED Gold Certification. You will appreciate the fact that the walks from INV to the Curry Student Center, and to Matthews Arena, are both short and direct. Please refer to the campus map in the program as needed. Both the Orange line and the Green line subways (the 'T' to locals) serve the campus.

We are excited by the prospect of this conference serving as an impetus for creating a trans-Atlantic network of marine educators, similar to what is happening in the Pacific with IPMEN (International Pacific Marine Educators Network). We are also pleased to see the continuation of the Expanding Audiences and Traditional Knowledge programs, thus widening the circle of educators making known the world of water.

So, welcome, bem-vindo, g'day, välkommen, welkom, yokoso to all of you. We're glad you're here in the Hub of Marine Education.

Bob Rocha, Chair, NMEA 2011

Science Programs Manager, New Bedford Whaling Museum



GENERAL INFO

Registration

Meeting registration will be held in the Curry Student Center.
Tuesday, 4:00 pm – 8:00 pm
Wednesday, Thursday, Friday 8:00 am – 5:00 pm
Saturday, 8:00 am – 12:00 pm

Meals

Your meal plan ticket is good for four breakfasts and three lunches. (If you did not choose full registration, some of your meals may not be included in your registration fee. Meals can be purchased on site.) Additional meals can be purchased at the register in International Village. Breakfast in International Village begins at 7:00am. Lunch on Thursday, Friday and Saturday will be served in International Village. Dinner location varies based on the scheduled evening event.

Important Notes

Please wear your name badge while attending the conference. All guests of participants must have tickets to attend

conference events and field trips. All campus buildings are non-smoking. Smoking is restricted to designated outdoor areas.

Information

Staff will be at a table in Curry Student Center during registration hours to answer questions. There will also be a message board at Registration.

Emergency Contacts

For a safety escort on campus or Public Safety assistance or information contact the Public Safety Division at 617.373.2121. For Fire, Police or medical emergencies on campus call 617.373.3333. For emergencies off campus call 911.

Getting Around

There are buses and shuttles to all NMEA conference events. Public transportation is available via www.mbta.com. The campus is served by orange and green line subway trains.



Dr. Allen Gontz

Assistant Professor of Coastal Geology and Geophysics with the Department of Environmental, Earth and Ocean Sciences at the University of Massachusetts-Boston

The Ever Changing Level of the Sea and its Impacts of Societies and Landscapes – Insights from the Coast of Massachusetts

Wednesday, June 29

7:00 pm – 9:00 pm, Matthews Arena



Trevor Corson

Author / Journalist

The Secret Life of Lobsters

Wednesday, June 29

7:00 pm – 9:00 pm, Matthews Arena



Dr. Scott Kraus

Vice President, Research, New England Aquarium, Boston, MA

Whales in an Urban Ocean: Challenges and Lessons on Co-existence

Thursday, June 30

8:15 am – 10:00 am, Curry Student Center Ballroom



Dr. Geoffrey Trussell

Director, Marine Science Center, Associate Professor, Biology Department, Northeastern University, Boston, MA

The Future of Northeastern University's Marine Science Center and a Vignette on Climate Change

Friday, July 1

8:15 am – 9:15 am, Curry Student Center Ballroom



Daniel Barstow

President, Challenger Center for Space Science Education, Alexandria, VA

Simulating an Ocean Mission – How Real Can It Get?

Saturday, July 2

8:15 am – 9:30 am, Curry Student Center Ballroom



SCHEDULE AT A GLANCE

Monday June 27

9:00 am – 2:00 pm	Sea Grant Educators Network Meeting	MIT Sea Grant, Cambridge, MA
12:00 pm – 4:00 pm	Global Marine Educators Meeting – Full, followed by breakout (IPMEN, TAMEC, IAC)	International Village 14/16/18

Tuesday June 28

morning/afternoon	See the City! (a list of sights to see will be available)	
9:00 am – 4:00 pm	NMEA Board Meeting	Egan 240
8:30 am – 4:30 pm	Sea Perch ROV workshop, Day 1	International Village 14/16/18
4:00 pm – 8:00 pm	Registration opens	Curry Student Center
6:30 pm	NMEA Board Dinner	Egan 240

Wednesday June 29

7:00 am	Breakfast*	International Village
8:00 am – 4:00 pm	Field Trips	Buses depart from Forsyth Circle
8:00 am – 5:00 pm	Registration open	Curry Student Center
9:00 am – 1:00 pm	Sea Perch ROV workshop, Day 2	International Village 14/16/18 and Cabot Pool
5:00 pm – 7:00 pm	Beantown Bash Reception – All attendees invited	Matthews Arena
7:00 pm – 9:00 pm	Official Welcome to Boston Keynote presentations: Dr. Allen Gontz and Trevor Corson	Matthews Arena

Thursday June 30

7:15 am – 8:00 am	Buddy breakfast*	International Village
8:00 am – 5:00 pm	Registration open	Curry Student Center
8:15 am – 10:00 am	Announcements – Welcome from Governor's Office Keynote – Dr. Scott Kraus	Curry Student Center Ballroom
10:15 am – 11:00 am	Concurrent sessions and Committee meetings	Curry Student Center
11:15 am – 12:00 pm	Concurrent Sessions and Committee meetings	Curry Student Center
12:00 pm – 1:15 pm	Lunch*	International Village
1:15 pm – 2:00 pm	Concurrent sessions and Committee meetings	Curry Student Center
2:15 pm – 3:00 pm	Concurrent sessions and Committee meetings	Curry Student Center
3:15 pm – 4:00 pm	Concurrent sessions and Committee meetings	Curry Student Center
4:15 pm – 4:45 pm	Duck Boat tours – All attendees invited	Depart from Forsyth Circle
6:00 pm	Last Duck Boat arrives at New England Aquarium	
6:00 pm	Dinner On Your Own	
7:00 pm	President's Circle Dinner hosted by Rob Moir – Invitation only	Somerville, MA
7:00 pm – 8:30 pm	New England Aquarium Teacher Resource Center Open – All attendees invited	New England Aquarium
8:00 pm – 9:00 pm	Evening Reception – Sundae Stations – All attendees invited	Back Patio of New England Aquarium
9:00 pm – 11:00 pm	New England Aquarium – Open to all attendees	New England Aquarium

* Your meal plan ticket is good for four breakfasts (Wednesday, Thursday, Friday and Saturday) and three lunches (Thursday, Friday and Saturday).
If you did not choose full registration, some of your meals may not be included in your registration fee. Meals can be purchased on site.

SCHEDULE AT A GLANCE

Friday July 1

7:00 am	Breakfast*	International Village
8:00 am – 5:00 pm	Registration open	Curry Student Center
9:00 am – 3:00 pm	Exhibits open	Curry Student Center Indoor Quad
8:15 am – 9:15 am	Announcements / Keynote: Dr. Geoffrey Trussell	Curry Student Center Ballroom
9:15 am – 10:15 am	Visit exhibits	Curry Student Center
10:15 am – 11:00 am	Concurrent sessions	Curry Student Center
11:15 am – 12:00 pm	Concurrent sessions and Committee meetings	Curry Student Center
12:00 pm – 1:30 pm	Lunch* / visit exhibits	International Village
1:30 pm – 2:15 pm	Concurrent sessions	Curry Student Center
2:30 pm – 3:15 pm	Concurrent sessions	Curry Student Center
4:30 pm – 5:30 pm	Buses leave for Thompson Island clambake – Ticket required	Buses depart from Forsyth Circle
5:30 pm – 10:00 pm	Thompson Island clambake – Ticket required	
9:00 pm & 10:00 pm	Boat/buses depart Thompson Island	Buses arrive at Forsyth Circle

Saturday July 2

7:00 am	Breakfast*	International Village
8:00 am – 12:00 pm	Registration open	Curry Student Center
9:30 am – 3:00 pm	Exhibits open	Curry Student Center Indoor Quad
8:15 am – 9:30 am	Announcements, Keynote – Dr. Daniel Barstow	Curry Student Center Ballroom
9:30 am – 10:30 am	NMEA Awards	Curry Student Center Ballroom
10:45 am – 11:30 am	Concurrent sessions and Committee meetings	Curry Student Center
11:45 am – 12:30 pm	Concurrent sessions	Curry Student Center
12:30 pm – 2:00 pm	Lunch* / chapter meetings / visit exhibits	International Village
2:15 pm – 3:00 pm	Concurrent sessions and Committee meetings	Curry Student Center
3:15 pm – 4:00 pm	Concurrent sessions and Committee meetings	Curry Student Center
5:00 pm – 10:00 pm	Closing Night Reception featuring Dinner, Silent Auction, Live Auction, 2012 promo, and Dancing to live music from Wild Nites and the CB Horns – All attendees invited	Curry Student Center

Sunday July 3

8:00 am – 10:00 am	Breakfast	International Village
8:30 am – 9:30 am	Sea Faire/Sea Swap	International Village
10:00 am – 11:30 am	New NMEA Board Meeting	International Village 14/16/18

COMMITTEE MEETINGS

Awards.....Thursday, June 30	10:15 am	History.....Thursday, June 30	1:15 pm
Chapters.....Friday, July 1	11:15 am	International.....Friday, July 1	11:15 am
Conference.....Thursday, June 30	2:15 pm	NSTA Liaison.....Thursday, June 30	1:15 pm
Conservation.....Thursday, June 30	3:15 pm	Ocean Literacy.....Thursday, June 30	3:15 pm
Education Research.....Saturday, July 2	2:15 pm	Outreach.....Saturday, July 2	11:45 am
Expanding Audiences.....Saturday, July 2	11:45 am	Publications.....Thursday, June 30	10:15 am
Finance.....Thursday, June 30	11:15 am	Scholarship.....Saturday, July 2	10:45 am
Grants/Funding.....Thursday, June 30	2:15 pm	Traditional Knowledge.....Saturday, July 2	2:15 pm

CONCURRENT SESSIONS

NMEA 2011 conference session focus on various marine issues. All sessions address one or more of the following strands:

- (A) Audiences** - Focus is on cultivating a global community of water conservationists. Presenters are invited to share strategies and programs that focus on reaching out to underrepresented audiences.
- (B) Breakthroughs** - Focus is on scientific research and new technologies that enable us to better understand the ocean, including the role of freshwater as it applies to inland waterways and its impact on the ocean.
- (P) Partnerships** - Focus is on successful partnerships and collaborations among educators, researchers, diverse audiences and communities as well as opportunities for teacher training, grants, awards and classroom funding.
- (R) Research** - Focus is on behavioral patterns of students and educators in schools and other organizations as they relate to ocean literacy. Presenters are invited to share their specific projects.
- (S) Special Topic**
- (ST) STEM** - Focus is on combining science, technology, engineering, and mathematics in order to provide inquiry opportunities to enhance students' understandings of freshwater and marine ecosystems.
- (SU) Sustainability** - Focus is on conservation issues as they pertain to the well-being of the natural world and the responsible use of natural resources. Specific topics may include global climate change, policy initiatives and local success stories.
- (TE) Teaching** - Focus is on successful classroom experiences using aquatic and marine themes. Presenters are invited to share their best practices.
- (TR) Traditional Knowledge** - Focus is on the long standing traditions, practices and cultures of regional, indigenous and local communities as they relate to freshwater and marine environments. Traditional ecological knowledge is cultural practice based on generations of place-based observations and empirical, experiential information. Presenters are invited to share perspectives, programs and strategies that embrace, support and celebrate traditional knowledge.

All concurrent sessions will be held in the Curry Student Center. Room numbers are listed in brackets.

THURSDAY, JUNE 30 10:15am – 11:00am

No Ocean? No Problem! Creative Teaching in Small Spaces

Nomi Dayan, Cold Spring Harbor Whaling Museum

(TE) How do you turn a small whaling museum into an exciting underwater adventure? Learn about recent initiatives to connect children and families to the ocean with out-of-the-box perspectives and resourceful, inventive takes on the collection. Get fresh ideas on hands-on activities through science, culture, and art, without the grand exhibits of an aquarium. **[348]**

Dive in to Ocean Science in the High School Biology Classroom

Sarah Wilson, National Geographic Society

(TE) Want to bring cutting-edge ocean science into your high school biology course? Using exciting National Geographic resources, real-world research, active ocean explorers, project-based learning activities, NG Staff and classroom teachers will demonstrate lessons and activities that meet Science Content Standards and Ocean Literacy Principles and will inspire you to teach about the ocean! **[346]**

Teaching Physical Science Using Underwater Sound

Celia Cackowski, URI Graduate School of Oceanography, Office of Marine Programs; Holly Morin, and Christopher Knowlton

(TE) Abstract physical science concepts can be challenging for students. This workshop will provide opportunities for participants to integrate the natural world phenomena of underwater sound into middle and high school classroom activities. In addition to a hands-on activity, online resources will be shared and participants will receive free CD-ROMS. **[347]**

SEA-IT-LIVE Virtual Fieldtrip or Become One of Our STARS

Jim Foley, Center for Microbial Oceanography: Research and Education (C-MORE), and Eric Grabowski

(ST) C-MORE presents two ways to bring oceanographic research into your classroom. Virtually follow a C-MORE's cruise through videos uploaded from the ship. Also, learn how to join us for the STARS (Science Teachers Aboard Research Ships) program aboard a 5-day research cruise out of Honolulu with the Hawaii Ocean Time-series. **[448]**

Seeds of Science/Roots of Reading: Integrating Aquatic Science and Literacy at the Elementary Level

Catherine Halversen, University of California, Berkeley, Lawrence Hall of Science, and Craig Strang

(TE) Learn about an integrated science and literacy program from the Lawrence Hall of Science's GEMS and MARE programs, designed to address both science and literacy standards using hands-on activities, student readers, discourse, and writing. This workshop features two units: grades 2–3 Shoreline Science and grades 4–5 Aquatic Ecosystems. Participants receive materials for their classrooms. **[342]**

Fishermen, Academics and Environmentalists: An Innovative Partnership for Addressing Marine Debris

Jen Kennedy, Blue Ocean Society for Marine Conservation

(SU) Blue Ocean Society for Marine Conservation has partnered with UNH, NH Sea Grant and UNH Cooperative Extension to create the Marine Debris to Energy Project, which involves fishermen in disposing of derelict fishing gear. This presentation will discuss this partnership and results that are useful to educators. **[322]**

Formal and Informal Experiential Learning for Underserved and Underrepresented Populations 2009-2011

Shelia Brown, University of Southern Mississippi; Tera Laprarie, Judy Hardin, Holly Bailey, and Jennifer Buchanan

(A) Implementation strategies, evaluation results and hands-on activities of the FIEE project funded through GOM-EPA will be presented. Designed to enhance environmental awareness, improve science literacy and develop stewardship ethics, the project targeted underrepresented and underserved students. Teachers from Louisiana and Mississippi will explain how state science education standards were implemented. **[320]**

Great Lakes Lessons: Teaching with Great Lakes Data

Laura Welsh Florence, Michigan Sea Grant, and Steve Stewart

(ST) Are you interested in teaching with real research data? Come learn about greatlakeslessons.com, a web-based resource for inquiry-based science education. We'll introduce resources for teaching about fish habitat, climate, storm events, and dead zones. Explore Great Lakes data using guided inquiry tools, as well as structured lessons aligned to standards. **[340]**

Collaboration that Works: Promoting Ocean Literacy in New England

Pam DiBona, New England Aquarium/New England Ocean Science Education Collaborative; Theresa Torrent-Ellis, Diana Payne, and Billy Spitzer

(R) The New England Ocean Science Education Collaborative demonstrates the power of volunteer collaboration. Learn how formal and informal educational institutions, academic research laboratories, universities, and government agencies have collaborated to produce events and education materials and implement three federally funded projects, all toward the goal of expanding ocean literacy. **[318]**

Simulating Top-down Control by Sea Otters in a Pacific Kelp Forest: A Game Based On Research

Lara Gates, Virginia Institute of Marine Science

(TE) This lesson plan is based upon published research concerning population dynamics in a kelp forest ecosystem. Within the context of a competitive game, students unveil simulation as a way to study populations and discover interactions including predation, competition, and top-down control among sea otters, sea urchins, and kelp. **[446]**

THURSDAY JUNE 30 11:15am -12:00pm

Diving with Dragons

Richard Wylie, Euakafa Island Research Centre, Australia

(P) This paper describes my work teaching snorkeling and fish identification skills to Year 9 students in southern Australia. The talk will cover the scientific partnerships and global links this program has developed as well as showcasing some of the endemic marine species that the students have encountered during their dives. **[318]**

Ships, Ocean, and Satellites (S.O.S.)

Katie Gardner, Liberty Science Center, and Kate Florio

(ST) Participate in this hands on lesson designed to introduce students to sea surface temperature data, and the technologies that could be used to collect it. Learn how we use S.O.S. to introduce real time data to middle school aged students and older. Developed through NSF's COSEE Networked Ocean World (COSEE-NOW). **[320]**

Hurricanes: Science and Society – An Online Resource

Chris Knowlton, University of Rhode Island, Holly Morin, and Celia Cackowski

(TE) Hurricanes: Science and Society (HSS) is an online education and outreach resource launched in October 2010 (www.hurricanescience.org). The site contains a broad range of material about hurricanes from the science of hurricanes and how they are modeled and forecast to the impacts and how to prepare for hurricanes. **[340]**

Chesapeake Studies – Engaging Students in Their Local Environment

Sarah McGuire, Chesapeake Bay National Estuarine Research Reserve in Virginia

(P) CBNERRVA is implementing a year-long school program to get students on meaningful field experiences. We will show participants the facets of the program including estuarine aquariums, professional development, and classroom/field experiences. Participants will take home a classroom lesson as well as the Estuarine Aquarium Keeping Guide. **[342]**

The Whys and Hows of Family Discovery Events for Elementary Students!

Jenny de la Hoz, Monterey Bay Aquarium, and Rita Bell

(TE) Join Monterey Bay Aquarium educators as we demonstrate our highly successful, bilingual (Spanish and English) Family Science Discovery Events for elementary school families. We'll help you understand the importance of empowering families as we discuss the benefits of positive discipline and science. Participants will explore a variety of age-appropriate activities. **[344]**

Building New England Connections: A Model for Regional Environmental Education Focusing on Watersheds

Lauren Rader, Project Oceanology, and Diana Payne

(TE) Building New England Connections bridges the gap between the teaching of science and the process of science. BNEC combines professional development with student experiences with the environment outside the classroom walls. Join us and find out more about effective professional development opportunities and activities that you can do with your students. **[348]**

Women Making Waves: What Can Famous Marine Scientists Teach us about Ocean Literacy?

Erika Poarch, Louisiana State University

(A) Come explore each ocean literacy principle as we dive into the lives and careers of six famous female marine scientists. Learn how these influential women shaped oceanography and furthered our understanding of the complex marine environment. Hands-on demos and object lessons supplement each historical vignette, adaptable to any grade level. **[346]**

Content Versus Conversation: The Impact of Volunteer Interpreters' Beliefs, Expectations, and Needs on Training for Communicating Ocean Science

Laura Dover, Oregon State University/COSEE Pacific Partnerships

(R) Volunteers and docents play an integral role in interpreting ocean science to the public in informal education settings, yet little is understood about their practice. This session highlights outcomes from studies at Oregon Coast Aquarium and Oregon Coastal Master Naturalist Program which provide insight for training volunteers in the future. **[333]**

Stand by Your Principles with a little Fresh and Salt

Terri Hallesy, Illinois-Indiana Sea Grant; Robin Goettel, and Helen Domske

(R) Integrate Great Lakes and ocean activities into instruction through Fresh and Salt's multidisciplinary lessons. Aligned with Great Lakes Literacy and Ocean Literacy Principles. Participate in engaging activities and learn ways to foster understanding about marine and freshwater concepts in your students. Incorporate science process skills. Receive free copy of curriculum. **[448]**

The Tsunami of March 2011 in Japan

Tsuyoshi Sasaki, Tokyo University of Marine Science and Technology

(S) Professor Sasaki Teaches at Tokyo University of Marine Science and Technology, and has attended several NMEA conferences. He lived near the location where the tsunami struck the coast of Japan. His family survived, but they had to move to another town. Professor Sasaki will describe his experiences and will discuss what is needed for rebuilding and repair in the region impacted by the tsunami. **[322]**

THURSDAY JUNE 30 1:15pm - 2:00pm

Inquiring Minds Want to Know About Flatfish!

Becky Cox, University of Tennessee at Martin

(TE) Do all fish look the same? What kind of adaptations have fish made? What are differences and similarities among species? How do scientists collect data that provide useful information? Join us in this session as we learn about six species of flatfishes. Experience activities appropriate for elementary students, including inquiry and differentiated strategies. **[346]**

Mapping Out Marine Education: How High School Students can Use GIS to Map Marine and Coastal Data

Anne Witzig, Essex Agricultural and Technical High School

(ST) Essex Aggie students learn GIS digital mapping skills throughout their years of high school. Freshmen illustrate the processes of plate tectonics around the world. Sophomores illustrate their campus tree inventory. Juniors create maps of Right Whale sightings. Seniors use data in the MA Coastal Zone Management Ocean Resource Information System. **[318]**

Ultimate Squid Dissection

Paul Detwiler, San Diego Mesa College

(TE) Looking to engage your students with dissection of a marine organism, but don't feel especially confident? Help has arrived! In this turbocharged session, participants will dissect squid using an easy-to-follow guide, watch an instructional video demonstrating techniques, identify structures, and receive post-lab review and web exploration activities. Calamari recipes included! **[348]**

Ocean for Life — Enhancing International Cultural Understanding through Ocean Science

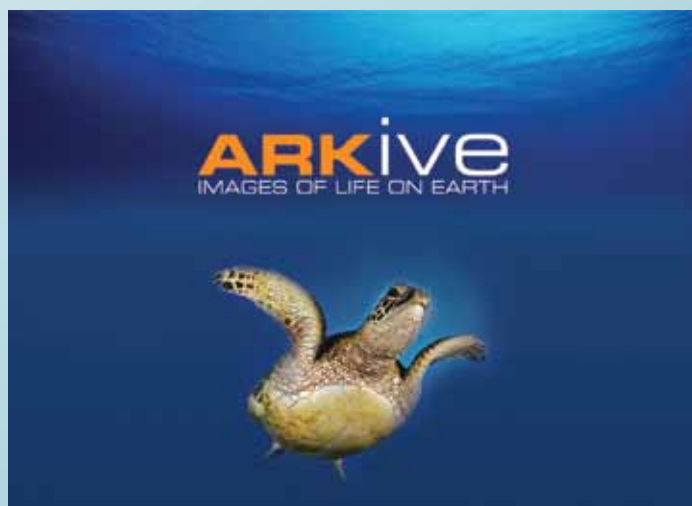
Michiko Martin, NOAA Office of National Marine Sanctuaries, and Tracy Hajduk

(A) NOAA's National Marine Sanctuaries Ocean for Life program brings high school students from the United States and Middle East together to learn, understand, and be challenged to be stewards for the world's ocean. In addition to working collaboratively to solve the ocean's problems, students learn about each other's diverse cultures. **[320]**

Salt Marsh, Scutes, STEM and Stewardship: SC Amazing Coast Elementary Program!

Elizabeth Vernon Bell, SC Sea Grant Consortium/COSEE SE, and Terry Kirby Hathaway

(TE) Engage in inquiry-based, STEM activities designed for the 3rd - 5th grade classroom. Learn about a 3-year South Carolina pilot program that addresses science standards through the study of the endangered loggerhead sea turtle, salt marsh restoration projects, and buoy and ROV construction. Freebies, door prizes and resources given away! **[340]**



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Photo: Green Turtle, © Masa Ushioda / SeaPics.com

CONCURRENT SESSIONS

25 Years of Celebrating Seaweek in Australia

Harry Breidahl, Marine Education Society of Australasia

(P) In 1987 two MESA members first ran a marine awareness program called Seaweek in the Australian state of Victoria. Seaweek quickly grew into a national campaign celebrating a different marine theme in March each year. After 25 years, the Seaweek archive now represents a wonderful collection of marine activities. [322]

Using Ocean and Climate Literacy to Teach ESL Adult Learners English

Mellie Lewis, College of Exploration; Peter Tuddenham, Tina Bishop, and Mary Casanova

(A) This presentation will describe how the College of Exploration, Literacy Volunteers of America and the Florida Keys National Marine Sanctuary are working together to engage English As Second Language adult learners in technologically facilitated outdoor experiential learning with NOAA partners in the Florida Keys to improve environmental, ocean, climate and English literacy. [344]

Ocean Education in a Crowded World

J. Padgett Kelly, Middle Tennessee State University

(TK) Presented activities provide an interdisciplinary scope to the issues of human ecology and marine conservation. Activity formats include role-playing simulations, concept-mapping and problem-solving challenges. Participants will receive activity instructions, data charts and background reading on a user-friendly CD-Rom. [342]

Ocean Literacy Campaign: Focus on Standards

Craig Strang, Lawrence Hall of Science; Sarah Schoedinger, Lynn Whitley, Diana Payne, and Peter Tuddenham

(R) Hear about the extraordinary response to the Draft Framework for Science Education, next steps in building new standards, and how you can be involved. We'll share the new Ocean Sciences Curriculum Sequence for Grades 3-5 and ocean literacy resources for K-12. Come be a part of the movement to create an ocean literate society! [333]

Vessel-Based Education – Best Practices from Michigan Sea Grant and COSEE Great Lakes

Steve Stewart, Michigan Sea Grant Extension

(SU) Vessel-based education advances knowledge and stewardship, as well as Great Lakes and Ocean Literacy, for both students and teachers. Best practices of vessel-based education, developed over more than 20 years of experience working with nearly 90,000 learners, will be shared with respect to program development, funding and evaluation. [448]

THURSDAY JUNE 30 2:15pm - 3:00pm

Families by the Seaside: Building Community-based Outdoor Ocean Science Learning Experiences (NEOSEC & partners)

Kate Leavitt, Seacoast Science Center; Jeremy Phillips, Carole McCauley, Maria Manzueta, and Alice Apley

(A) With funding from NOAA, five NEOSEC member ISEC-CBO (Informal science education center/Community-based organization) teams are developing outdoor experiences for underserved families. Program components include target-audience focus groups, professional facilitation to help the teams develop sustainable relationships, and state-of-the-art web2.0 tools for engaging families. Panel of representatives will share their experiences. [342]

Why Do We Explore? Okeanos Explorer

Susan Haynes, NOAA Office of Ocean Exploration and Research; Melissa Ryan, and Paula Keener Chavis

(TE) This session will introduce Volumes 1 and 2 of the NOAA Ship Okeanos Explorer Education Materials Collection. Topics will include modern reasons for ocean exploration, the exploration paradigm for the ship, and the technology used in her explorations. Enhancing understanding of STEM content used in exploring the ocean will be emphasized. [340]

Myth Busters: All About Fishes

Mare Timmons, University of Georgia

(TE) This presentation/discussion will center on fun and fascinating facts about marine fishes. Or is it fish? Come find out! Whether you are an avid biology teacher or informal educator please join us for a discussion of generally unknown tidbits about fishes; things you can't find in a text book. [344]

The Sea Around Us: Our Water Our World

Deborah Cramer, Visiting Scholar, Earth System Initiative, MIT

(SU) Using Smithsonian Ocean: Our Water Our World's stunning photography, I will give concrete meaning to NOAA's ocean literary principles/concepts, for example, discussing how the Dust Bowl and the Great Lakes illustrate principle 6, human/ocean interconnectedness, how Yankee Stadium illustrates principle 2, ocean shaping earth's features, and many others! [318]

An Ocean Sciences Curriculum Sequence for Grades 3-5

Catherine Halversen, UC Berkeley Lawrence Hall of Science, and Craig Strang

(TE) Immerse yourself in inquiry-based activities designed to bring ocean sciences to life for elementary classrooms. The Lawrence Hall of Science, Rutgers University, and NOAA collaborated to develop the Ocean Sciences Sequence curriculum. Each participant will receive one unit of the curriculum on a CD, and a copy of the Ocean Literacy Scope & Sequence. [346]

Rescuing Oiled Animals

Chris Breazeale, Institute for Marine Mammal Studies-Center for Marine Education and Research

(SU) The recent oil spill in the Gulf of Mexico impacted a wide variety of marine animals. In this hands-on session, participants will learn about techniques used to rescue and clean oiled animals stranded in Gulf waters. Prepare to roll up your sleeves and get dirty. Dress accordingly! [348]

A Conversation with Dr. Ernest Everett Just, Marine Invertebrate Researcher

Donald Sweeper, Centers for Ocean Science Education Excellence COSEE-SE, and Lundie Spence

(A) Come and experience a unique conversation through reenactment with Dr. Ernest Everett Just, a pioneering African American marine embryologist, as he discusses striking details about his life and research. Hear Dr. Just describe his life as a science educator at Howard University, and the joy he encountered when he went abroad to do research in Europe. [320]

Whale Behavior, Ecology, and Conservation in the Jeffreys Ledge Region of the Gulf of Maine

David Maclaren, Merrimack College

(P) A partnership between Merrimack College and Blue Ocean Society (BOS): Undergraduate interns and BOS scientists work aboard whale watch vessels collecting data on marine mammals in the Jeffreys Ledge region of the Gulf of Maine while educating passengers about marine ecology and conservation. Field data collection and analysis methods, and a new Animal Behavior course are discussed. [448]

Federal Ocean Education Action Plan

Marlene Kaplan, Deputy Director of Education, NOAA, and Lisa Rom

(R) Are you interested in adding your voice to defining federal ocean education priorities? The Interagency Working Group on Ocean Education requests your input on the education component of the National Ocean Council's Strategic Action Plan. The Plan is in response to the recommendations of President Obama's Interagency Ocean Policy Task Force: (<http://www.whitehouse.gov/administration/eop/ceq/initiatives/oceans>) [333]

Current Research in Marine Education: A Panel Discussion

Meghan Marrero, U.S. Satellite Laboratory, Inc.; Roseanne Fortner, Diana Payne, and Amy Gillian

(R) High quality educational research is needed to advance the field of marine education within the science education community. Join experienced marine education researchers for a panel discussion in which we will address many issues pertinent to research in ocean, aquatic, and Great Lakes education. [322]

THURSDAY JUNE 30 3:15pm - 4:00pm

sSELF Sustaining: The South Shore Estuary Learning Facilitator Program

Lou Siegel, Dowling College / NYSMEA

(SU) sSELF increases the monitoring and stewardship of tributaries leading to the estuaries of Long Island New York. Supported by grants from the ERM Foundation to NYSMEA. It is carried out in cooperation with the Dowling College NSF NOYCE Teacher Education Program. We provide classroom/field training to teachers; supply equipment, supplies and a website for data. [318]

How Do We Explore? Okeanos Explorer

Susan Haynes, NOAA Office of Ocean Exploration and Research; Melissa Ryan, and Paula Keener Chavis

(ST) This session will introduce Volumes 1 and 2 of the NOAA Ship Okeanos Explorer Education Materials Collection. Topics will include modern reasons for ocean exploration, the exploration paradigm for the ship, and the technology used in her explorations. Enhancing understanding of STEM content used in exploring the ocean will be emphasized. [340]

A Decade of Discovery: The Census of Marine Life – Definitely Not Your Grandfather's Census

Darlene Trew Crist, Census of Marine Life, and Suzy Ryan

(ST) For a decade, 2,700 scientists from 80+nations collaborated on the first Census of Marine Life, revealing an ocean that is richer, more connected, and more impacted than expected, and leaving a baseline against which future change can be measured. Learn which educational resources serve as a living legacy of the Census of Marine Life. [320]

FRIDAY JULY 1 10:15am - 11:00am

Ocean Acidification – Are Humans Making the Oceans More Acidic?

Jim Foley, Center for Microbial Oceanography: Research and Education (C-MORE), and Abby Heitoff

(ST) The greatest threat from increased carbon dioxide in the atmosphere could be to the oceans. Here you will learn how increasing carbon dioxide concentrations in the atmosphere can cause the oceans to become more acidic. Skeptical? We will conduct an experiment demonstrating how carbon dioxide changes the pH of water. [342]

Using a Storybook Works!

Sandra Rutherford, Eastern Michigan University

(TE) Research was conducted with students in a grade 5 classroom to measure the effectiveness of using the storybook, Ducks in the Flow – Where did they Go? and its companion activities to teach ocean literacy. The post analysis showed a 30% increase in learning. Copies of the storybook will be available. (Janice Dana and Laura Eidietis, co-authors.) [322]

Developing a Youth Continuum for Conservation

David Christopher, National Aquarium; Marni Friedman, Maria Madero, and Christina Romano

(A) For over 30 years the National Aquarium has been engaging Baltimore City students in learning about aquatic ecosystems. The Aquarium is currently working to connect these programs in order to create a continuum of youth experience. The session will discuss these programs, how they connect, and the current evaluation process. [344]

Engaging English Language Learners through Family Science Discovery Events for Middle School Students

Jenny de la Hoz, Monterey Bay Aquarium, and Rita Bell

(A) Monterey Bay Aquarium educators will present their successful, bilingual (Spanish and English) Family Science Discovery Events for middle school students and discuss why family learning is important. Attendees will participate in an model event and investigate middle school science activities such as submersible plastics, polymer chains and a plastic timeline. [346]

Undoing the Chemical Brew: Education and Outreach Tools for Effective Decisions Regarding Safe Disposal of Unwanted Medicines

Helen Domske, New York Sea Grant & COSEE Great Lakes; Robin Goettel, and Terry Halley

(SU) Traces of chemicals from pharmaceutical and personal care products (PPCPs) have been found in U.S. waterways and have the potential to harm fish and other aquatic organisms. Learn about this emerging issue and what you can do to get these important messages out to students and other stakeholders. [348]

Development of a Marine Science Curriculum to Promote Ocean Literacy Among Urban Youth


Rebecca Gasper, Consolidated Safety Services Contractor, NOAA

(A) Presentation of a new high school level marine science curriculum based on NEMO: NOAA Enrichment in Marine sciences and Oceanography. The curriculum is designed to promote ocean literacy among urban youth. Lessons are geared toward educators with limited preparation time and materials. Free copies of the curriculum will be provided! [448]

COSEE at 10: Ocean Science Innovations for any Coast!

Roseanne Fortner, Centers for Ocean Science Education Excellence COSEE; Craig Strang, and Annette de Charon

(ST) NSF's Centers for Ocean Sciences Education Excellence [COSEE] program is 10 years old. COSEEs on all four U.S. coasts will highlight some key contributions: a Great Lakes model of shipboard science, COSEE California's Communicating Ocean Sciences course, COSEE Ocean Systems' online products, and Central Gulf of Mexico's COSEE Model workshops. [333]



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Integrating Marine Science into the Elementary School Classroom

Maia Patterson McGuire, University of Florida/Florida Sea Grant; Ruth Francis-Floyd, and Heather Maness

(TE) We will present a curriculum developed around Florida's endangered marine species which is being used to teach science standards, language arts, math and social studies. Join us to try out activities from the third grade manatee curriculum and hear about upcoming elementary curricula based on sea turtles and right whales. [318]

Coral Camp for Kids

Rudy Bonn, Reef Relief.org

(SU) Coral Camp for Kids are week-long sessions where we teach kids, aged six through twelve years of age the fundamentals of coral reef ecology. Classroom sessions are coupled with a variety of activities and field trips that demonstrate to the kids the need for the protection and conservation of coral reef ecosystems now, and in the future. [320]

Introducing....PLANKTON To Your Classroom (AKA: Plankton is Wicked Awesome!)

Jim DePompei, Cabrillo Marine Aquarium, and Chris Brodie

(TE) Discover how fun and easy it is to introduce plankton to your classroom. We'll find out how important plankton is to us and the ocean ecosystem and get our hands wet with some fun and educational plankton activities. Activities and information will be provided and teaching strategies will be modeled. [348]

The Inner Space Center: Unprecedented Oceanographic Exploration Resource for Educators and Students

Maryanne Scholl, URI Graduate School of Oceanography, Office of Marine Programs, and Celia Cackowski

(ST) The Inner Space Center, at URI, Graduate School of Oceanography, is an amazing facility which enables us to better understand the ocean. The integration of this technological advancement will provide educators with unprecedented learning and teaching opportunities, specifically in oceanographic science, unique in its ability to address standards across multiple disciplines. [322]

Inquiry-Based Lessons and Activities for Your Classroom

Karen Fuss, Coastal Carolina University, and Craig Gilman

(TE) Through the NSF's GK-12 Program, graduate students in the Coastal Marine & Wetland Studies Program have developed inquiry-based lessons for middle and high school biology, ecology, and marine science courses. A middle and a high school lesson that has proven to be successful will be demonstrated. [340]

Summer Science in New England: Ocean Education through Informal Science Centers

Heather Deschenes, New England Aquarium; Lauren Rader, Martha Bell, and Liz Bonk

(ST) From Groton CT to Blue Hill ME, teens at 10 summer camps are collecting intertidal biodiversity data and uploading results to an international biogeographic database. Join camp directors from the partnering New England Ocean Science Education Collaborative member institutions for a fast-paced, hands-on activity demonstrating the sampling protocol. [342]

School Field Trips, Learning Gains and Program Implications at Monterey Bay Aquarium

Rita Bell, Monterey Bay Aquarium, and Chris Parsons

(R) In 2009, Monterey Bay Aquarium conducted a comparative study of its onsite K-12 school programs. During this session, we'll share with you our key findings and how these findings are impacting our program designs. Some findings validated what we've always suspected, while others were quite surprising! [333]

Families Learning Ocean Explorer Science (FLOES): NOAA OE Lessons Adapted for Family Science Kits

Adrienne Marriott, San Diego County Office of Education, and Nancy Taylor

(A) Four materials kits for Family Science events were adapted from existing NOAA OE lessons and online resources. Kits contain materials necessary to conduct eight short activities that families can explore independently, one or more whole group activities, and career information. Downloadable kit manuals and materials lists allow easy replication. [344]

Sustainable Ocean Studies: Inspiring a New Generation of Ocean Advocates

David Vaughan, Sustainable Ocean Studies, Waynflete School, Portland, ME, and JB Kavaliauskas

(SU) Come learn about Sustainable Ocean Studies, a new and exciting summer program for older high school students addressing the sustainability of the ocean. Join us to experience how SOS blends adventure, hands-on field experiences and a community-oriented approach to ocean sustainability while challenging participants to become part of the solution [442]

CONCURRENT SESSIONS

Traditional Knowledge Strengthens NOAA's Environmental Education

Marion Ano, NOAA Pacific Services Center, and Leon Geschwind

(TK) Environmental education efforts are increasingly recognizing the value of traditional ecological knowledge (TEK) as a basis to teach the importance of stewardship. The National Oceanic and Atmospheric Administration (NOAA) Pacific Services Center (PSC) incorporates TEK into formal and informal education components of its environmental literacy program. [448]

Ocean Observing Systems: Benefits for Educators and Their Students!

Lynn Whitley, Centers for Ocean Science Education Excellence COSEE-West

(ST) Ocean Observing Systems provide important data for research scientists, but they also create opportunities to engage students using ocean data and images. COSEE-West has resources, lesson plans, and workshops to help teachers engage their students with near real time data and the excitement of this innovative aspect of ocean exploration. [346]

FRIDAY JULY 1 11:15am - 12:00pm

The Mouth of the South, the Brown Pelican!

Carrie Dixon Riley, Discovery Hall Programs, Dauphin Island Sea Lab, and Greg Graeber

(TE) In this hands-on session, visual aids (made from household items!) and experiments will highlight the life history and struggles of the brown pelican! The program will conclude with an overview of the comeback of brown pelicans in the U.S. and present day threats to their survival including mercury contamination. [340]

Marine Biology, Marine Ecology, Field Biology and Oceanography – A Melting Pot of Ideas

Pamela Lynch, Suffolk County Community College, and Jean Anastasia

(TE) There are essential topics in any marine science course: Marine Biology, Marine Ecology, Field Biology and Oceanography. But how does an educator reach the audience and cover all topics comprehensively? We will demonstrate an activity that will engage students, bolster their sense of exploration, and increase understanding of these topics. [318]

Counting Parasites: Using Shrimp to Teach Students about Estimation

Carla Curran, Savannah State University, and Lindsay Bertsch

(ST) Estimation is a useful skill. We teach children about estimation by using a marine example: marine shrimp that can have hundreds of parasites. The parasites must be estimated quickly so the shrimp can be returned to the water. A prize will be given to the NMEA participant with the best estimation skills! [348]

Programs and Resources from the National Marine Sanctuaries – How You Can Be Connected

Tracy Hajduk, NOAA National Marine Sanctuaries, and Michiko Martin

(TE) National Marine Sanctuaries inspire ocean and climate literacy and stewardship of our country's 13 marine sanctuaries and one marine monument through engaging field programs and free online resources. The session will cover the robust online resources available for your use such as photo libraries, lesson plans and live expeditions [320]

Teaching Marine Biology Using Moodle

Michael Romano, Acton-Boxborough Regional High School

(TE) Come learn how you can use this popular course management system and innovative web tool in your high school marine biology classes. I will share access to my Moodle site and provide examples of discussion board topics, course projects and online assessments I use in my classes. Bring your laptop! [342]

Something Fishy: Teachers Teaching Teachers

David Welty, Ocean Explorium; Virginia Freyermuth, Patricia Crowley, and Jack Crowley

(P) The Connecting Ocean Academy conducts professional development programs based on current events, regional interests, partner expertise, and instructional needs. By teaming master classroom teachers with content / research experts, programs stay focused on impacting K-12 student learning. Join the discussion on how this might impact your community of learners. [333]

Community Partnerships: Lessons Learned from the Aquarium of the Pacific

Alie LeBeau, Aquarium of the Pacific; Dave Bader, and Emily Yam

(P) The Aquarium of the Pacific has partnered with two local schools to improve science education and ocean literacy for its students. Join us for an overview of the lessons learned and opportunities for future development of partnerships between the informal and formal education worlds. [322]

Differential Instruction Using the Diverse Marine Habitats on Long Island, NY

Dale Stanley, Nassau Community College

(TE) The principles of ecology, biology and some geology are taught using differential instruction (DI) techniques. Long Island, NY has both rocky and sandy shores and is ideal for incorporating varied student - learning styles. This presentation is a compressed version for educators and can be adapted to several grade levels. [344]

Teachers on the Estuary

Joan Muller, Waquoit Bay National Estuarine Research Reserve, and Erin Hobbs

(SU) Learn about a professional development program at National Estuarine Research Reserves that links teachers with field-based coastal research. Try NOAA web-based products and an activity that models monitoring in the field. Additionally, Teacher Erin Hobbs will share her students' stewardship projects and her experiences using TOTE materials in her classroom. [346]

We Are All in the Same Boat – Adventures in Collaborating at Sea – Two Bays Project

Harry Breidahl, Marine Education Society of Australasia

(P) Connecting communities with their coastal and marine environments is a challenge! Centered on a sixty-one foot catamaran, this marine research and community engagement program builds partnerships, conducts research, and engages the community in Ocean Dialogue. This presentation will focus on educational material based on traditional knowledge and studies of Port Phillip and Western Port Bays. [440]

Season Your Lessons with Ocean Data

Theresa Pinilla, Newton County Schools, GA; Martha Muir, and Courtney Wade

(ST) Connect communities with their coastal and marine environments is a challenge! Centered on a sixty-one foot catamaran, this marine research and community engagement program builds partnerships, conducts research, and engages the community in Ocean Dialogue. This presentation will focus on educational material based on traditional knowledge and studies of Port Phillip and Western Port Bays. [440]

FRIDAY JULY 1 1:30pm - 2:15pm

Hands-On the Ocean: Inquiry Based Activities Teaching Marine Science

Tim LaVallee, Museum Institute for Teaching Science, and Sandra Ryack-Bell

(TE) Experience inquiry based, hands-on, minds-on STEM investigations to teach Marine Science to your K-8 students. Take home MITS resources including interdisciplinary investigations developed during MITS' Summer Teacher Institutes that engage your students in critical thinking and science content. Investigations are connected to National Frameworks and Ocean Literacy Principles. [442]

Small Fry to Go – Growing a New Generation of Citizen Scientists

Tom Schmeltzer, DeKalb County Georgia Schools; Mindy DiSalvo, and Karin Markey

(SU) Small Fry to Go (SfTG) is a unique, award-winning, year-long, project-based, science, technology, engineering, mathematics (STEM), and communications program. Since 2004, 10,000 students have raised and released over 100,000 rainbow trout fry and have learned the importance of preserving habitats, conserving and maintaining their environment and pursuing responsible resource stewardship. [318]

SCUTES: Students Collaborating to Undertake Tracking Efforts for Sturgeon

Sarah Walsh LaPorte, NOAA National Marine Fisheries Service; Kimberly Damon-Randall, and Edith Carson

(SU) SCUTES is an educational outreach initiative bringing together researchers and classrooms to learn about sturgeon. We will present on the SCUTES program, demonstrate some of the activities SCUTES includes in the educator kits, and give an opportunity to see preserved sturgeon specimens, skulls and scutes, and life-size castings of a shortnose and Atlantic sturgeon. [320]

Podcast Interviews with Ocean Scientists

Jim Yoder, Woods Hole Oceanographic Institution

(ST) This presentation will describe and demonstrate Ocean Gazing, which is a 50-episode audio series featuring 8-10 minute interviews focusing on how scientists and the public use real-time data gathered from ocean observatories in their professional and personal lives. [322]

Teaching Teachers to be Thoughtful, Reflective and Active Marine and Environmental Educators through School-Community Based Learning

Amy Cutter McKenzie, Monash University, Australia, and Harry Breidahl

(R) In this session, we focus on a school-based approach to teacher education drawing upon a self study of two lecturers where they took marine and environmental education from a university setting to a school setting with the primary intent to influence, motivate and inspire aspiring pre-service teachers to be thoughtful, reflective and active marine and environmental educators. [340]

School Partnerships: Connecting Classrooms to the Coast

Rebekah Stendahl, New England Aquarium, and Nicole Scola

(P) New England Aquarium partners with schools to work with teachers to provide students with a deeper understanding of the oceans through classroom activities, field experiences, and guided trips to the Aquarium. Learn more about how we set up partnerships and develop activities that positively influence students' learning and science experiences. [342]

Evaluation – Answers and Questions

Rita Bell, Monterey Bay Aquarium, and Chris Parsons

(R) Evaluating programs at Monterey Bay Aquarium has taught us a lot about our audiences and programs. In the process of looking for answers, we've uncovered even more questions! Join Chris Parsons, Principal of Word Craft and Rita Bell, Director of Education Programs, as we share methodologies and results. [333]

Building Stewardship Through Cross Generational Learning

Linda Chilton, USC Sea Grant

(A) In urban Los Angeles, connecting participants with nature is critical to understanding and protecting the environment. Parent-child teams for learning, stewardship opportunities, and peer teaching help to bridge many barriers and provide opportunities to forge stronger relationships between participants and the environment and build the culture and science of caring for our watery planet. [344]

4th Grade Students Head-Start Threatened Blanding's Turtles

Diane Kablik, Concord Public Schools, MA, and Susan Ericksen

(SU) Learn how 220 fourth grade students participated in a unique sea turtle rehabilitation and research program. Students collected and interpreted data, and shared their investigations and experiences through internet tools. We'll describe the funding and professional development that led to the creation of student Turtle Journals documenting their yearlong investigation. [346]

Transmission of Traditional Knowledge Post Cod Moratorium in Newfoundland

Kim Thurman, University of Florida, IFAS, Fisheries and Aquatic Sciences

(TK) The 1992 Cod Moratorium was not just a financial or ecological crisis, but threatened a way of life that had been practiced for generations. Introducing the Newfoundland experience as a basis, participants will be encouraged to contribute examples from other cultures faced with preserving traditions under pressure of modern life. [348]

An Education Update for the Gulf of Mexico Deepwater Horizon Oil Spill Education Effort – NOAA Office of Education

Sharon Walker, Institute for Marine Mammal Studies-Center for Marine Education and Research; Dan Brook, Lee Yokel, Dianne Lindstedt, Tina Miller-Way, Chris Breazeale, Chris Verlinde, and Margaret Sedlecky

(TE) This presentation will provide an overview of a videoconference sponsored by NOAA's Office of Education involving 10 different locations in FL, AL, MS, and LA. Four scientists served as keynote presenters to 200 formal and informal educators; and resources were provided to the participants. Session will include an oil spill activity. [448]

FRIDAY JULY 1 2:30pm - 3:15pm

OceansLIVE! Web-based Telepresence to Bring Ocean Expeditions to You!

Tracy Hajduk, NOAA National Marine Sanctuaries, and Michiko Martin

(ST & B) NOAA's National Marine Sanctuaries' OceansLIVE Portal, created in partnership with the Institute for Exploration and the University of Rhode Island Inner Space Center allows students and the public access to expeditions in real-time. Watch past expeditions and learn how this online resource is changing the way people experience the ocean [318]

The National COSEE Network



Advancing ocean sciences literacy through partnerships with
research and education institutions.

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Discover the Gulf of Maine – From the Bow Seat: A Film of Exploration with Gems of Ocean Learning Throughout

Suzu Ryan, Gulf of Maine Marine Education Association; JB Kavaliauskas, and Colin Woodard

(TK & SU) Discover the rich history of the Gulf of Maine through a new documentary *From the Bow Seat*. Meet the experts who are working to sustain this unique ecosystem which hosts America's oldest fishery and the region's iconic puffin and lobster populations. Participants will obtain resources and a free DVD and educator packet. [320]

Plankton – The Greatness of Very Small Marine Life

Jim Foley, Center for Microbial Oceanography: Research and Education (C-MORE), and Abby Heitoff

(TE) Plankton constitutes the base of the marine food web, but how can you share the importance of something so small? Here you will learn about the basics of plankton, look at a live zooplankton sample, learn ways to bring plankton into the classroom and be an artistic oceanographer. [322]

Dos and Don'ts for Writing Successful Grant Proposals

Sarah Schoedinger, NOAA - Office of Education; Beth Day-Miller, and Carrie McDougall

(A) Do you wonder why some grant applications get selected over others? Would you like to learn how to avoid common pitfalls that can sabotage your application's chance of success? If you are you interested in writing a more competitive proposal, this is a must on your conference schedule. [333]

Marine Biology Share Session

Michael Romano, Acton-Boxborough Regional High School, David Johnston, and Joseph Buttner

(TE) This session will highlight teaching ideas. [340]

Get WET in New England: Ocean Literacy through Watershed Education and Training (NEOSEC)

MaryEllen Mataleska, Mystic Aquarium; Kate Yeomans, Barbara Pinto Maurer, and Nicole Scola

(P) Learn how to create Meaningful Watershed Education Experiences for your students that go beyond a one-time shoreline visit. Teacher-participants from four NEOSEC member institutions will describe and demonstrate their MWEE programs and share the successes and challenges they encountered. Attendees will leave with information about participating in future MWEE trainings. [342]

Hands-on Oceanography by Building and Tracking GPS Drifters

Jim Manning, NOAA's Northeast Fisheries Science Center; Erin Pelletier, and Tom Long

(ST) In the last few years, hundreds of students have been involved with building GPS drifters. They are deployed by local fishermen in coastal currents around the country contributing to NOAA's ocean observing system. Students track the drifter's path on the internet (see <http://www.nefsc.noaa.gov/drifter>) and learn to download the data. [344]

The Hudson River Eel Project: Fish Conservation Through Citizen Science

Chris Bowser, NYSDEC Hudson River Research Reserve and Estuary Program

(SU) Each spring over two hundred trained citizen scientists research thousands of migratory American eels in local streams on the Hudson River estuary. This catch-and-release study conserves eel populations and achieves educational goals through cooperative field work in highly diverse communities. [346]

An Interactive Web Site for Teaching About Human Impacts on the Marine Environment

Jen Kennedy, Blue Ocean Society for Marine Conservation

(ST) Blue Ocean Society for Marine Conservation and UNH Cooperative Extension created an interactive web site that displays sightings of whales along with common floating litter items in the Gulf of Maine. This presentation will discuss the site and how we can use it to teach about the problem of marine debris. [448]

Education Under Sail

Bert Rogers, American Sail Training Association

(TK) Education under sail gets students into the environment for up-close study of the world of water. On board a sailing vessel, students gain intimate experience with waves, wind, and currents, which sets the stage for curiosity, wonder, investigation, and ultimately understanding and stewardship. We will introduce a variety of sailing programs for diverse audiences. [348]

Creating Environments for Ocean Literacy in Chile: Connecting an Ocean Research Center and the Local School Community

Luis Antonio Pinto, Center for Oceanographic Research in the South-eastern Pacific, University of Concepcion, Chile

(A) Although Chile has one of the longest coastlines in the world, schools do not include marine science in the curriculum or activities. The Center for Oceanographic Research in the South-eastern Pacific is promoting ocean literacy with a series of engaging activities for K-12 students and an internship for K-12 teachers. Come learn and talk about these exciting programs. [442]

CONCURRENT SESSIONS

SATURDAY JULY 2 10:30am - 11:15am

Experiential Marine Science Education: Integrating Course and Field Experiences in the Dept. of Earth & Environmental Science, Northeastern University

Jennifer Cole, Department of Earth and Environmental Sciences, Northeastern University, and Annette Govindarajan

(TE) Northeastern University Earth & Environmental Sciences marine programs provide a broad, multidisciplinary approach giving students a solid background in marine disciplines, core sciences, and the societal aspects of marine science. With marine-focused BS & BA degrees, Concentrations, Minors, COOP fieldwork, and research opportunities, students have flexibility to pursue their interests. [318]

City Fish & Country Fish

Mary Cerullo, Friends of Casco Bay

(TE) How do the fishes of tropical seas and those in cold waters adapt to the challenges and opportunities of their individual ecosystems? Leave with classroom activities to explain how the residents of coral reefs and frigid seas use color, shape, size, behaviors, and adaptations to thrive in their own habitat. [320]

NOAA Tools for Bringing Ocean Data to the Classroom

Atziri Ibanez, NOAA National Estuarine Research Reserve System, and Sarah McGuire

(ST) NOAA Data in the Classroom has 4 new modules, designed for grades 5-9, to teach about ocean acidification, water quality, El Nino and Sea Level Rise. These modules have a single point of entry into interactive web activities, data visualizations and animations that will engage students with real ocean science. [322]

Ship & Shore – Great Lakes Science Education

David Boughton, PA Sea Grant, and Jeanette Schnars

(R & TE) We'll introduce our combination of traditional shipboard environmental learning stations with laboratory analysis of samples, which promotes Ocean Literacy and understanding of environmental quality. Participants will compare ship & shore learning methods and techniques utilized in the field and the lab during the roundtable discussion. Our strong partnerships will be highlighted. [340]

What Teachers Want: Teacher Preferences for K-5 Pre-visit Field Trip Activities

Cristin Ryan, Smithsonian Marine Station

(R) Cristin is a marine biology educator pursuing an M.S. in Science Education in Free-Choice Learning at Oregon State University. This session will discuss findings from Cristin's final Master's project including results from more than 60 K-5 teacher interviews and surveys on teachers' field trip planning processes and pre-visit activity preferences. [342]

Oregon Sea Grant: Scientists + Students = Success

Tracy Crews, Oregon Sea Grant/Oregon State University, Hatfield Marine Science Center

(P) Oregon Sea Grant has numerous unique education programs that incorporate real-world inquiry and interaction with scientists as a way to engage youth and teachers. Careers in Science Investigation (CSI) and the Oregon Coast Aquatic and Marine Science Partnership project are two successful programs involving scientists that will be highlighted. [344]

Explore Ocean-Human Connections: Use Literature in the Marine Science Classroom

Kim Thurman, University of Florida, IFAS, Fisheries and Aquatic Sciences

(TE) Reading can be exciting and personal when students are engaged in learning about aquatic themes not often discussed in textbooks: surfing, diving, marathon swimming, fishing and boating survival stories, and sea folklore. Participants will receive a list of reviewed books that are appropriate for high school use, and classroom-ready activities. [346]

The University of Texas Marine Science Institute & Artist Boat – Coming Together as Partners to Promote NOAA B-Wet!

Sarah Pelleteri, University of Texas Marine Science Institute, and Rani Henderson

(P) Science + Action = Gulf Coast Literacy! Find out how Artist Boat and University of Texas Marine Science Institute collaborated on a 5-day professional development for grade 7 - 12 teachers. The teachers received curriculum that integrates hands-on ecology-based science, math, and art lessons. This workshop applies directly to providing hands-on meaningful experiences to students. [448]

Fashion a Fish/Invent an Invertebrate

Anne Smrcina, Stellwagen Bank National Marine Sanctuary

(TE) We might not have brilliantly colored reef fish, but New England can boast some of the ugliest and strangest creatures in the oceans! We'll design our own fish and invertebrates and compare them with local creatures. We will explore the wide variety of marine phyla and look at their characteristics. [442]

Calling for Ocean Literacy: Collecting Field Data with Smart Phones

Jim Wharton, Mote Marine Laboratory

(ST) Through a grant from the Verizon Foundation, Mote is piloting a custom smartphone application for collecting marine organism and environmental field data. In this session, participants will see how the program works by using the smartphone application to collect, compile, and analyze their own data. [348]

SATURDAY JULY 2 11:30am - 12:15pm

Using ARKive.org to Create Virtual Marine Learning Experiences

Liana Vitali, ARKive / Wildscreen USA

(TE) Learn how to access ARKive.org's collection of 80,000+ images and films of endangered species (over half of which are marine-based organisms) free to educators and students. Then, get inspired with new lesson plans, activities and educational games encouraging virtual learning in the classroom. [318]

iYouth & the Ocean! (iYO!): An Academic Achievement and Research Program for Middle School Students

Craig Strang, Lawrence Hall of Science

(A) Findings from our 3-year NSF-funded marine science program for underrepresented middle school students will be shared. Students participated in summer school programs, a residential research camp, service learning activities, weekend field trips, tutoring, and after school citizen science projects with the goal of increasing student interest in marine science careers. [320]

Exploring Marine Science through Curricula, Virtual Globes, and Interactive Media

Leon Geschwind, The Baldwin Group at NOAA Pacific Services Center, and Marion Ano

(TE) Marine science curricula (grades 3-5) use the ocean environment as a model to learn the scientific process, meet educational benchmarks, and gain an introduction to NOAA science. This session will integrate innovative technologies (i.e. 3-D virtual globes) within curricula to tell compelling stories that meet student science and technology needs. [322]

Citizen Science as a Tool to Engage Stakeholders and Students:

The Coral Reef Monitoring Data Portal

Liz Foote, Coral Reef Alliance (CORAL), and Donna Brown

(ST) The Coral Reef Alliance (CORAL) developed an online resource, the Coral Reef Monitoring Data Portal (<http://monitoring.coral.org>), to facilitate Hawaii-based citizen marine science initiatives. This one-stop-shop includes online data entry for coral reef studies and water quality monitoring. This presentation will introduce the portal, its resources, and its application to formal and informal educational settings. [340]

How Social Market Research Can Help You Reach Your Target Audience

Wei Ying Wong, The Ocean Project

(R) How do we motivate the public to act for conservation action? Our large-scale survey of American attitudes and values vis-à-vis ocean, climate change, and related conservation issues reveal critical insights about what, who, and how we can communicate for maximum efficacy. [342]

Inquiry Learning in the Marine Science Classroom

Stacy Leone, East Hartford High School, CT, and Julianne Mueller-Northcott

(TE) The goal of this workshop is to present teachers with ideas for promoting inquiry in science classrooms. A spectrum of inquiry activities will be shared. This workshop will feature a discussion of benefits and challenges of inquiry-based learning, tips for helping students craft scientific questions and examples of student work. [344]

Everyone Can Write About Whales

Patricia Sullivan, Honolulu Environmental Policy Examiner

(TE) Painless, cross-curricular, inclusive writing program; proven to increase writing scores on high stakes tests. Participants enjoy improved writing competence and confidence while honing math, science, ICT and social studies skills. Easily differentiated to age/grade/ability. Aligns with state standards. Experience all things whale without leaving the classroom! Limit 25 participants. [333]

Plastics and the Patches: Information and Resources on Marine Debris

Carey Morishige, NOAA Marine Debris Program / I.M. Systems Group, Inc.

(SU) This presentation will provide educators with up-to-date, accurate information on plastic debris and the patches-oceanic areas of high marine debris concentration. During this presentation, tips on online resources for information and materials will also be shared, along with an introduction to the NOAA Marine Debris Program. [448]

Connecting Kids to Coastal Watersheds—A NOAA B-WET Grant

Jen Buchanan, Grand Bay National Estuarine Research Reserve, and Shelia Brown

(A) Our program was designed to establish unforgettable, meaningful, personal connections between local fourth grade students (a predominately underserved and underrepresented population) and teachers in the habitats of Mississippi's coastal watersheds and to experientially reinforce the science standards used for testing. We will share a pitcher plant activity and discuss our program's structure. [346]

Saving Florida Dolphins, Arctic Guillemots, Five Salt Ponds and a Salt Marsh

Rob Moir, Ocean River Institute

(SU) Discover what you can do to help wildlife and ecosystems with Ocean River Institute campaigns. Hear how we are working to protect Florida dolphins, Arctic guillemots, salt ponds in the Virgin Islands, and an East Boston salt marsh. Inspired by Rachel Carson, ecostewards are working to sustain our green and blue planet. [442]

Bridging Science and Traditional Knowledge in American Samoa

Selaina Vaitautolu, American Samoa Dept. of Marine & Wildlife Resources; Maria Vaofanua, and Lusila Minoneti

(TK) Marine resources are an important part of the Samoan culture. The Community-based Fisheries Management Program led by the American Samoa Department of Marine and Wildlife Resources works with traditional villages in American Samoa to implement Village Marine Protected Areas as a conservation tool for marine resource management. [348]

SATURDAY JULY 2 2:00pm - 2:45pm

Student-Developed Coral Propagation and Broodstock/Larval-Rearing Ecosystems

Bob Jakus, Waukegan Public Schools, Illinois

(TE) Come see two aquatic ecosystem projects that my students loved creating, assembling, and maintaining. Working prototype aquatic ecosystem models that students worked with this year will be set-up and available for your observation. Discussion and slides document development and use of these systems. Additional system ideas/applications are also considered. [318]

BayScaping: Connecting the Ocean to Your Backyard

Mary Cerullo, Friends of Casco Bay

(SU) Research shows that lawn chemicals are changing the ocean in our lifetime, with slime-covered mudflats, dead zones, and ocean acidification. Participants will receive classroom activities with current water quality data and ecological landscaping principles to learn how they can lessen the impact of fertilizers and pesticides on the ocean ecosystem. [320]

Investigating Estuaries with Online Monitoring Data: Activities from Estuaries 101

Atziri Ibanez, NOAA National Estuarine Research Reserve System, and Sarah McGuire

(R) Come share the excitement of using real research data with the National Estuarine Research Reserve's new Estuaries 101 curriculum for grades 9-12. Modules feature hands-on learning, experiments, and data explorations. Check out our new video gallery on estuaries and our species factsheets, and get a CD of resources. [322]

Teaching and Learning at the Intersection of Conservation Science and Policy

Amy Siuda, Sea Education Association

(SU) Through the lens of SEA Semester: Marine Biodiversity and Conservation, this presentation highlights strategies for integrating science and policy into undergraduate curricula. This unique model encourages students to complement the study of leading-edge scientific techniques with skills necessary to operate in the public policy arena and tackle global-scale environmental challenges. [340]

Mommy and Me at Mote: Program Impact Study

Jim Wharton, Mote Marine Laboratory

(R) We'd like to share the results from our formative, mixed-methods evaluation of Mote's Mommy and Me Program, a nonformal family education program for 2-5 year-olds and their favorite caregiver. We're presenting our results from this pilot study and discussing lessons-learned in the conduct of the evaluation. [333]

An Introduction to Our Dynamic Ocean – A New Curricular Resource for Secondary Instructors

Beth Day Miller, BridgeWater Education Consulting; Angie Ward, and Kajsa Nicholas

(TE) This recently created secondary level curriculum guide entitled An Introduction to Our Dynamic Ocean is based on the OLEP&FCs and uses Life on an Ocean Planet as the primary text resource. We will introduce participants to a series of hands-on lesson plans/activities that are classroom-ready and scientifically accurate. [342]

Adult Ocean Literacy and Learning at the Magic Planet

Katie Stofer, Oregon State University

(R) What do adult science center visitors know about the ocean? What can they learn from visualizations of ocean data presented on a spherical display? Presentation will address development and implementation of an instrument for examining these issues with a chance for audience feedback. [344]

Oil Spill: Lessons from Louisiana

Dianne Lindstedt, Louisiana Sea Grant College Program, and Tricia LeBlanc

(SU) Learn about classroom oil spill activities that were developed in Louisiana. Play a game simulating steps and set backs for sea turtles in rehabilitation centers and be a seafood tester by using your sense of smell and taste to explore perceptions of seafood tainting. [348]

Creating Unique Experiences for Special Audiences

Kim Morris-Zarneke, Georgia Aquarium, and Jahmar Hannans

(A) When talking about reaching diverse audiences we often refer to ethnic, racial and socio-economic audiences. What about special needs audiences? These audiences cross ethnic, racial and socio economic boundaries. We will talk about the journey we took in creating two programs at Georgia Aquarium: a special needs camp and our Abilities Day celebration. [346]

Why We Need to Save Whales – Protecting Marine Resources

Regina Asmutis-Silvia, Whale and Dolphin Conservation Society

(SU) This talk will focus on cost of a global economy reliant on shipping and the risk posed to marine resources, including endangered whales. Current mitigation measures, the science and policy behind them, and why it's important for students to understand the origins of their purchases will be discussed. [448]

SATURDAY JULY 2 3:00pm - 3:45pm

Life and Work Aboard an Oceanographic Research Vessel: Tour of a Virtual Tour

Dan Smith, Woods Hole Oceanographic Institution

(ST & B) Tour stowaway.who.edu, a website using linked virtual-reality panoramas to depict studies of jelly animals aboard an oceanographic research cruise, and learn more about the animals, people, and activities you'll see: salps, ctenophores, and cnidaria; diving scientists, aquarists, and technicians; and the ship's officers, engineers, and seamen who get everyone there. [318]

SCUBAnauts International: Immersing Youth in Marine Science

Elizabeth Moses, SCUBAnauts International, and Cathy Wilkins

(TE & A) Want to get students excited about marine science? Immerse them in the ocean! SCUBAnauts International (SNI) is a non-profit, informal education program that engages diverse students ages 12-18 in experiential learning and marine research. SCUBAnauts act as research divers for projects including habitat monitoring and restoration. Try our hands-on activities, and learn how to get involved! [320]

Ocean Observation Data: Resources Available Through Partnership

Tom Shyka, NERACOOS, and Perrin Chick

(P) This session showcases how informal and formal educators can use ocean observing data. Presented by NERACOOS and the SSC, participants learn how this partnership has created exhibits, field trips and workshops. Hands-on activities will teach you the content. Lessons plans will be available for you to take home. [322]

Reflecting on Practice: A Professional Development Program for Informal Science Educators

Lynn Tran, Lawrence Hall of Science; Catherine Halversen, Emily Yam, Dave Bader, Rita Bell, and Stacia Fletcher

(R) Reflecting on Practice is a powerful and innovative professional development program for informal science educators. We'll discuss the value of staff development, impacts on visitors' experiences, and how to establish institutional priorities. Join our conversation about promoting habits of reflective practice among staff, and finding ways to invest in staff development. [340]



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CONCURRENT SESSIONS

The Transects Program: The Role of Undergraduates Utilizing At Sea Data For Quality Oceanographic Research

Liz Symon, College of Charleston, M.S. Environmental Studies Candidate

(R) Undergraduate research plays a valuable role in the scientific careers of students. I will describe the success and impacts of the Transect Program at the College of Charleston on undergraduate students and show that undergraduates can produce quality oceanographic research using phytoplankton and domoic acid data from past Transects Program students. [342]

Magnify the Impact of Your Field Trip: Make Connections to the Classroom

Kim Thurman, University of Florida, IFAS, Fisheries and Aquatic Sciences

(TE) Teachers prefer to incorporate programs that best fit into their lesson plans and meet state standards. Funders want proof that your program is successful with youth. This session will provide environmental educators with tips and resource examples for developing pre- and post-field trip activities that meet everyone's needs. [344]

Ghostbusting in the Chesapeake

Chris Petrone, Delaware Sea Grant

(SU & P) Virginia scientists partner with watermen to collect derelict, or ghost, crab pots lost or abandoned at sea. Ghost pots continue to catch animals which typically cannot escape; trapping them until they die. This bycatch includes crabs, fish, diving birds and turtles. In this Bridge session, participants explore watermen-collected bycatch data. [346]

How Public Science Events Can Help Create New Connections in your Community to the Science and the Ocean

E. Howard Rutherford, The Pier Aquarium; Jim Wharton, Jen Larese, and Ben Wiehe

(A & P) This panel will highlight the effectiveness of Science Cafes and Science Festivals to connect the public to ocean science and ocean science researchers. National coordinators will discuss the past, present and future of Science Cafes and Festivals, and we will provide real-world examples and lessons learned from two recent successful events. [333]

From Whaling to Watching: North Atlantic Right Whale

Anne Smrcina, Stellwagen Bank National Marine Sanctuary

(TE) We will review some of the latest research findings about this critically endangered marine mammal and introduce a curriculum with hands-on activities and complementary reading materials. We'll look at artwork, maps, photographs and video clips that illustrate our growing understanding of the body systems and behaviors of this great whale. [442]

Engaging the K-12 Community in Adélie Penguins and Climate Research with a Virtual Field Trip to Cape Royds, Ross Island and Antarctica

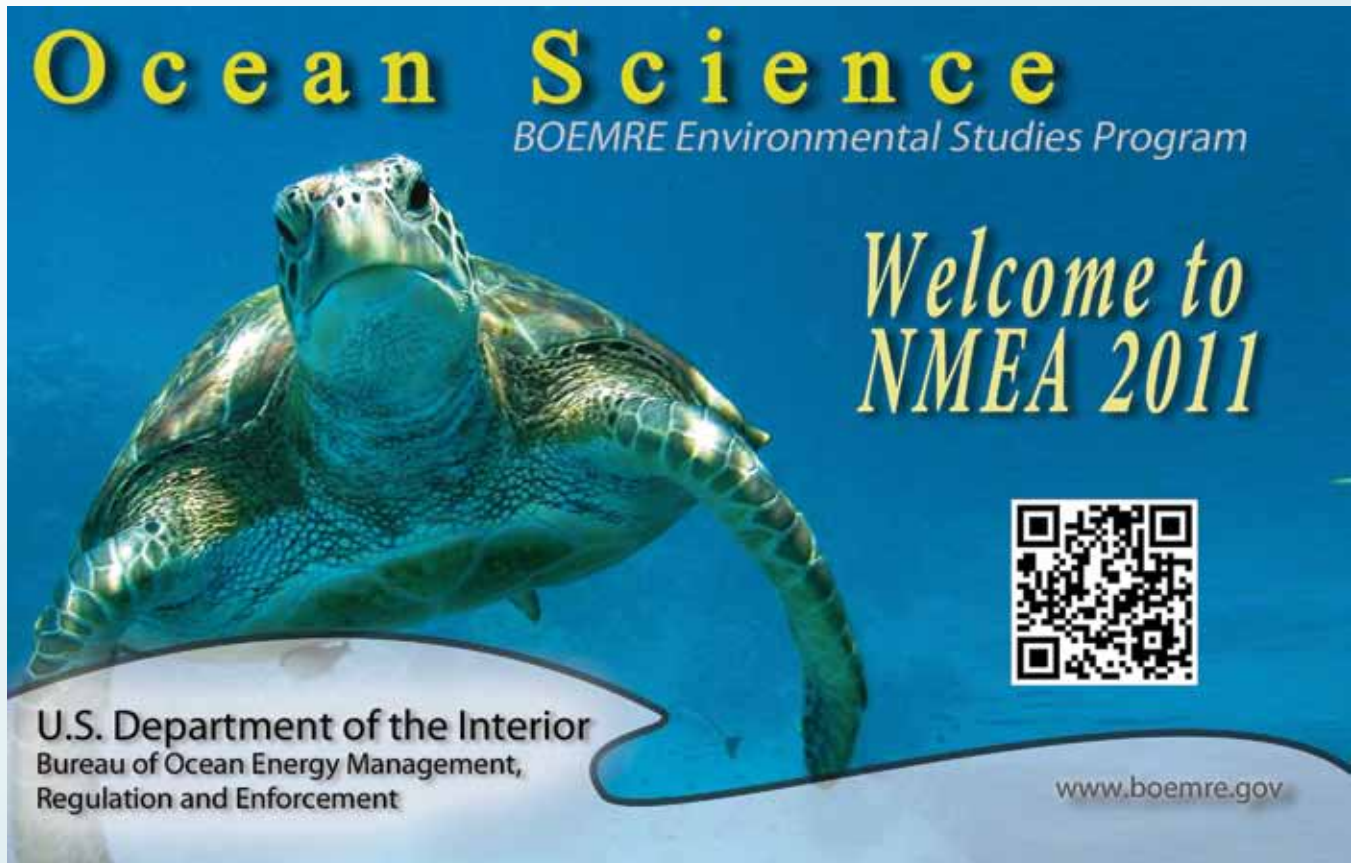
Jean Pennycook, National Science Foundation

(ST) Engaging students beyond the text book and classroom experiences, our education outreach project provides an opportunity to follow researchers tracking the lives of breeding Adélie Penguins in Antarctica. Our team provides a virtual field experience for classrooms, engaging students in scientific research while enhancing awareness of Antarctica's role in the Earth's climate system." [348]

Stewardship Stories

Rob Moir, Ocean River Institute

(SU) Come hear and share stories of stewardship! We will discuss successes and challenges, and seek innovative ideas for overcoming barriers and solving problems. Informal discussion format. [448]



Ocean Science
BOEMRE Environmental Studies Program

Welcome to
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EXHIBITORS & SPONSORS

Conference Exhibitors

The following exhibitors will be present in the Curry Student Center Indoor Quad.

Exhibits will be open from 9:00am - 3:00pm on Friday, and from 9:30am - 3:00pm on Saturday.

ARKive.com

Bureau of Ocean Energy Management,
Regulation and Enforcement

Cetacean Society International

Current Publishing

Fluid Imaging Technologies

Gulf of Maine Marine Educators Association

Leave Only Bubbles

Massachusetts Institute of Technology Sea Grant

Massachusetts Marine Educators

National Marine Educators Association

Northeastern Regional Association of
Coastal Ocean Observing Systems

National Oceanic and Atmospheric Administration

Ocean Classroom

Roatan Institute for Marine Sciences

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Shoals Marine Laboratory

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Marine Science and Technology & Ocean Explorium

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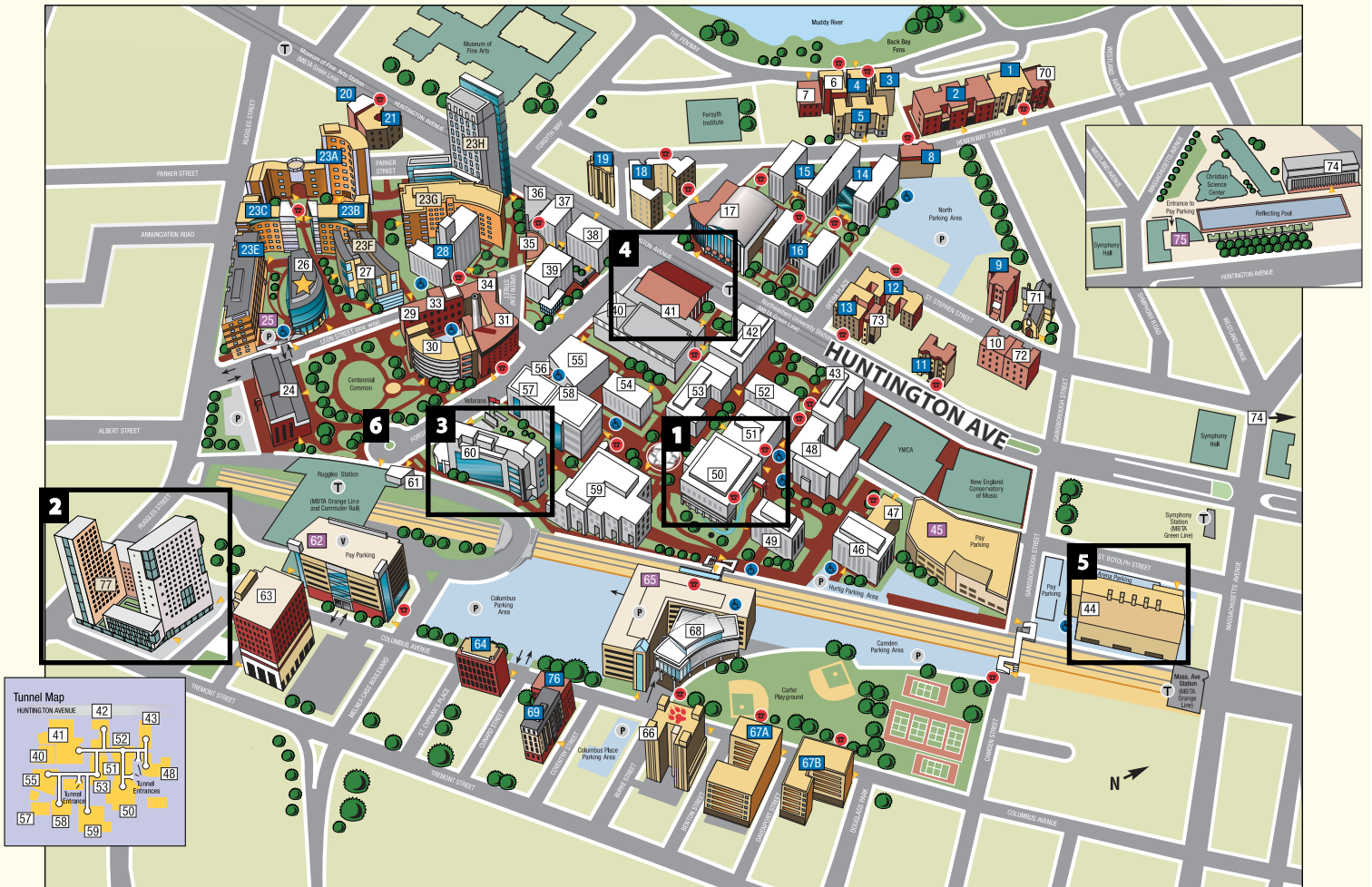


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**NEW BEDFORD
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MUSEUM**

Northeastern University



Academic and Service Buildings

- 66 Alumni Center at Columbus Place (CP)
- 61 Architecture Studio (RG)
- 70 Asian American Center (AC)
- 68 Badger-Rosen SquashBusters Center (SB)
- 40 Barletta Natatorium (BN)
- 26 Behrakis Health Sciences Center (BK)
- 74 101 Belvidere (BV)
- 51 Blackman Auditorium (AUDL)
- 41 Cabot Physical Education Center (CB)
- 7 Cahners Hall (CA)
- 36 Cargill Hall (CG)
- 72 Catholic Center (CC)
- 54 Churchill Hall (CH)
- 66 Columbus Place and Alumni Center (CP)
- 47 Cullinane Hall (CN)
- 50 Curry Student Center (CSC)
- 8 Cushing Hall (CU)
- 57 Dana Research Center (DA)
- 39 Dockser Hall (DK)
- 43 Dodge Hall (DG)
- 60 Egan Engineering/ Science Research Center (EC)
- 52 Eli Hall (EL)
- 71 Fenway Center (FC)
- 55 Forsythe Building (FR)

- 53 Hayden Hall (HA)
- 10 Hill-Frager (HF)
- 33 Holmes Hall (HO)
- 46 Hurtig Hall (HT)
- 77 International Village (INV)
- 35 Kariotis Hall (KA)
- 38 Knowles Center (KN)
- 34 Lake Hall (LA)
- 56 Latino/a Student Cultural Center (LC)
- 17 Marino Recreation Center (MC)
- 44 Matthews Arena (MA)
- 29 Meserve Hall (ME)
- 48 Mugar Life Sciences Building (MU)
- 31 Nightingale Hall (NI)
- 27 O'Bryant African-American Institute (AF)
- 63 Renaissance Park (RP)
- 42 Richards Hall (RI)
- 49 Robinson Hall (RB)
- 73 ROTC Office (RO)
- 24 Ryder Hall (RY)
- 30 Shillman Hall (SH)
- 58 Snell Engineering Center (SN)
- 59 Snell Library (SL)
- 37 Stearns Center (ST)
- 23 West Village F, G, H (WV)

Residence Buildings

- 21 Burstein Hall (BU)
- 67 Davenport Commons A, B (DC)
- 77 International Village (INV)
- 1 Kennedy Hall (KDY)
- 4 Kerr Hall (KH)
- 12 Levine Hall and St. Stephen Street Complex (LV)
- 9 Light Hall (LH)
- 5 Loftman Hall and 153 Hemenway Street (LF)
- 3 Melvin Hall (MH)
- 20 Rubenstein Hall (464)
- 2 Smith Hall (SM)
- 16 Speare Hall (SP)
- 14 Stetson East (SE)
- 15 Stetson West (SW)
- 23 West Village Residence Complex F, G, H (WV)
- 18 White Hall (WH)
- 28 Willis Hall (WV)
- 69 10 Coventry Street (CV)
- 8 142-148 Hemenway Street (142-148)
- 11 319 Huntington Avenue (319)
- 13 337 Huntington Avenue (337)
- 19 407 Huntington Avenue (407)
- 76 768 Columbus Avenue (768)
- 64 780 Columbus Avenue (780)

Parking Garages

- 65 Columbus Parking Garage (CPG)
- 75 Belvidere Parking Garage (BVG)
- 45 Gainsborough Parking Garage (GG)
- 62 Renaissance Park Garage (RPG)
- 25 West Village Parking Garage (WPG)

Legend

- # Academic and Service Buildings
- # Academic/Service-Residence Buildings
- # Residence Buildings
- # Parking Garages
- P Parking (permit required)
- V Visitor Parking
- H Handicapped Parking
- Handicapped-Accessible Entrance
- Emergency Telephone
- T MBTA Station
- ★ Admissions Visitor Center
- Alumni Center at Columbus Place

- 1 – Curry Student Center – Registration and Sessions
- 2 – International Village – Dorms, Breakfasts, Sea Perch/ROV workshop
- 3 – Egan Engineering Center – NMEA Board Mtg (Tues)
- 4 – Cabot Phys Ed Center – Sea Perch/ROV Workshop
- 5 – Matthews Arena – Welcoming Reception (Weds)
- 6 – Forsythe Circle – Buses for Field Trips (Weds), Duck Boat Tours/New England Aquarium Reception (Thurs), Thompson Island Clambake (Fri)