MME extends its gratitude to all the speakers, presenters, field trip leaders, exhibitors and contributors of services, bag contents, posters and door prizes:

Dr. James A. Yoder, Vice President for Academic Programs and Dean, WHOI
Dr. Kate Madin, Curriculum Coordinator, Academic Programs Office, WHOI
Carol Anne Clayson, Associate Scientist, Physical Oceanography, WHOI
Kevin J. Anchukaitis, Department of Geology and Geophysics, WHOI
Michael J. Polito, PhD, Postdoctoral Scholar, WHOI
Matthew Barton, Multimedia Technician, Graphics, WHOI
Hovey Clifford, Senior Engineering Assistant I, retired, WHOI
Kathy Patterson, Exhibit Center, WHOI
Nicole Scola and the New England Aquarium, Boston, MA
The New Bedford Whaling Museum and New Bedford ECHO Project
Rob Reynolds, The Zephyr Education Foundation, Woods Hole
Provincetown Center for Coastal Studies, MA
Mary Kay Taylor, Gloucester Maritime Heritage Center
Stellwagen Bank National Marine Sanctuary, Scituate, MA
Sea Education Association, Woods Hole
Massachusetts Institute of Technology (MIT) Sea Grant, Cambridge, MA
Carole McCauley, Northeastern University Marine Science Center, Nahant, MA
Roland Lamirande, Chef Roland’s Catering, East Falmouth, MA
Erik Gura, Pie in the Sky, Woods Hole
Meg Tabacsko, Massachusetts Water Resources Authority, Boston, MA
Jonathan Bird’s Blue World, Jonathan Bird Productions, Oceanic Research Group, N. Reading, MA
Grainger Pottery, Marion, MA
National Marine Life Center, Buzzards Bay, MA
Athlete’s Corner, Swampsco, MA
Sandra Ryack-Bell, Museum Institute for Teaching Science
George Liles, Curator, Woods Hole Science Aquarium, NOAA
Grace Simkin, NOAA Outreach and Education on Protected Species
Stace Beaulieu, Global Viewports to Vents project
Author Bill Sargeant http://www.aswh.org/BSargent_new.html
Harvard Museum of Natural History
Alphagraphics, New Bedford, MA
Afternoon Options Continued  2:45-4:15 pm

Self-Guided Visit to Woods Hole Science Aquarium
The Aquarium is owned by the federal government and operated by NOAA’s National Marine Fisheries Service in partnership with the Marine Biological Laboratory. Established in 1885, it is the country’s oldest marine aquarium. It’s open from 11:00 am to 4:00 pm, and seal feedings are at 11:00 am and 4:00 pm most days. Admission is free but donations are always welcome.

Conference Exhibitors

- New England Aquarium
- Stellwagen Bank National Marine Sanctuary
- New Bedford Ocean Explorium
- Gloucester Maritime Heritage Center
- Nat’l Marine Education Association
- NOAA Outreach and Education on Protected Species
- Sea Education Association
- Zephyr Education Foundation, Inc.
- National Marine Life Center
- Global Viewports to Vents project
- Author Bill Sargent

Save the Following Dates!

- MME Member Sail on the Schooner Ardelle from Gloucester Harbor Saturday, May 18th from 3:30 to 5:30pm
- Art Contest by MME and Stellwagen Bank Nat’l Marine Sanctuary April 25th
- Boston Harbor Educator’s Conference 2013, UMASS Boston September 28th

The Global Ocean Program Schedule

8:00 am  New Member Reception at WHOI Ocean Science Exhibit Center
8:30 am  Registration in Redfield 204; sign up for afternoon options by 1 pm
9:00 am  Welcome and Opening Remarks
          Bill Andrake, President, Massachusetts Marine Educators
          Dr. James A. Yoder, VP for Academic Programs and Dean, WHOI
9:15 am  Speaker: Carol Anne Clayson, Associate Scientist, Physical Oceanography, WHOI: Ocean evaporation and Earth’s changing water cycle
10:15 am Presentation: Massachusetts Marine Educator’s Annual Awards
          (names of recipients are listed elsewhere in this program)
10:30 am  Break with complimentary refreshments; explore the exhibits and WHOI Visitor’s Center
11:00 am  Speaker: Kevin J Anchukaitis, Department of Geology and Geophysics, WHOI: Where the ocean meets the land: field research on the Earth’s changing water cycle
12:00 pm  Massachusetts Marine Educators Annual Business Meeting
12:15 pm  Lunch: On your own or enjoy a cup of Roland’s Clam chowdah!
1:00 pm  Speaker: Michael J. Polito, PhD, Postdoctoral Scholar, WHOI: Top-down and bottom-up: Tracking the impacts of climate change and anthropogenic harvesting on penguins and other predators in the Antarctic marine food web
2:00 pm  Presentation of door prizes: Goodies for teaching about the ocean!
2:45-4:15 pm  Afternoon Workshops, Tours, and Field Trips: See pages 4 and 5
4:30 pm  Social Reception: Sea Education Association, 171 Woods Hole Road, in the Madden Center. All are invited! SEA is on the left, after the set of lights, as you drive toward Falmouth; the Madden Center is at the top of the drive, and parking is nearby.
Afternoon Options  2:30-4:15 pm

Please sign up for programs and tours in Redfield 204 by 1:00 pm

Science Cruise with The Zephyr Education Foundation, Inc.

Cruise Vineyard Sound aboard the R/V Minuteman! Conduct oceanographic measurements and collect marine biological specimens, view the real-time underwater benthic video camera, help deploy and track a surface drifter; learn about research projects at the Woods Hole scientific institutions; and find out how you can bring your students on a Zephyr field trip that addresses the MA Science and Technology/Engineering Curriculum Frameworks. Dress warmly!

Time: 2:30 to 4:00 pm; the boat will leave the dock promptly at 2:45 pm
Presenters: Rob Reynolds of The Zephyr Education Foundation, Inc.
Place: Meet Rob in Redfield lobby to walk together to the R/V Minuteman, located at Dyer’s Dock, across the street from Redfield
Limit: 20
Cost: $10 per person (Thank you, Rob, for such a terrific opportunity!)

Workshop: Lesson Share

Come share a lesson and receive lessons related to The Global Ocean. This is your chance to collaborate, share your lesson ideas and hopefully walk away with a fresh new idea for your classroom. Bill Andrake from Swampscott Middle School will lead the group by sharing one of his skillfully developed, successfully tested and kid-approved lessons. Then it will open up to the group for a round about lesson share. If you have copies of your lesson, GREAT!! If you don’t, but have a great idea and could possible email it to others later, GREAT!! Everyone is welcome because good teachers are made on the shoulders of other good teachers. So come collaborate and fuel your fire!

Time: 2:45 to 4:15 pm
Leader: Bill Andrake
Place: Smith Laboratory’s Conference room: Meet in Redfield lobby and the group will walk over to Smith together.
Limit: 25

Workshop: Marine Mammal Adaptations and Climate Change For the Elementary Classroom

NOAA’s Protected Species Branch (PSB) at the Northeast Fisheries Science Center (NEFSC) in Woods Hole, MA developed a program to create core educational materials relating to key marine mammal topics and our research done at NEFSC. We offer free 1-hour lessons with hands-on activities, presentations, and projects on marine mammals for local K-5 classrooms. All our materials are available to download for educators who are not local, with activity adjustments suggested (see www.nefsc.noaa.gov/psb/NOEPS). In this workshop, we will present one of our lessons: Marine Mammal Adaptations and Climate Change. In this lesson, students learn about adaptations and habitat. Specifically, they explore the physical constraints within the marine habitat and what adaptations marine mammals have that enable them to survive there. Additionally, they learn about climate change and how that might influence marine mammal habitat usage. The lesson concludes by looking at how human choices can impact marine mammals, and what students can do to make a difference.

Time: 2:45 pm to 4:15 pm
Presenter: Grace Simpkins
Place: Woods Hole Science Aquarium and Grace will meet you in the lobby.
Limit: 25

WHOI Dock Tour

Take an insider’s tour of the Woods Hole Oceanographic Institution. View dockside oceanographic equipment, see possible submersible sighting with ongoing upgrades in the high bay, and be amazed by true stories about research at sea and on shore. Dress warmly, and bring a camera!

Time: 2:45 to 3:45 pm
Tour Guide: Hovey Clifford, retired after a more than 30 year career at WHOI
Place: Hovey will meet the group on the steps outside the Redfield Building
Limit: 20
Welcome to the 37th MME Annual Meeting and Conference Hosted by the Woods Hole Oceanographic Institution!

Erin Hobbs MME Conference Chair

The many tasks of organizing this meeting were shared by individual members of the Board of Directors and MME members-at-large. We extend special thanks to Dr. Kate Madin and her colleagues in the Academic Programs Office at WHOI. MME members who wish to become active on committees or join the Board of Directors are invited to speak with a current Board member.

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The Massachusetts Marine Educators 2013 Awards

MME EDUCATOR OF THE YEAR
For outstanding contributions to the education of students, teachers, and communities:
David Eatough

JOSEPH BALSAMA SERVICE AWARD
For outstanding assistance to MME and the Boston Harbor Educator's Conference:
Nicole Scola, New England Aquarium and
Carole McCauley, Northeastern U. Marine Science Center

NAP BUONAPARTE SERVICE AWARD
For outstanding assistance and support to MME:
Carol “Krill” Carson

MME AWARD OF DISTINCTION
For their commitment to marine education by connecting thousands of kids to the Ocean:
Jonathan and Christine Bird, Jonathan Bird’s Blue World

CERTIFICATES OF APPRECIATION
For their dedicated service to MME and continued support:
Dawn Tesorero and
Jim Manning

JOHN PATRICK CROWLEY MEMORIAL TEACHER GRANTS
For her work with NSF TEACH, adding art to STEM making STEAM and at MME’s HSMSS
Jennifer Saunders, Morton Middle School, Fall River
For his work with marine programs at the Ocean Explorium, Sea Lab and at MME’s HSMSS
Jordan Valois, Taunton High School, Taunton
The Global Ocean

"You may find it hard to swallow the notion that anything as large and apparently inanimate as the Earth is alive." James Lovelock’s The Ages of Gaia

We must look at the Earth as one living thing with many complex interacting systems necessary for its survival.

Saturday, April 6th 8:30 am - 4:30 pm
Redfield Building at Woods Hole Oceanographic Institution

Schedule

8:00 am  New Member Reception
8:30 am  Registration in Redfield 204
9:00 am  Welcome and Opening Remarks
9:15 am  Speakers
12:00   Business Meeting and Awards
Lunch   Complimentary chowder will be served
1:00 pm  Afternoon Speaker
2:00 pm  Door Prizes
2:30-4:15 pm Afternoon Workshops, Tours, and Field Trips
4:30 pm  Social Reception: Sea Education Association. All are invited!

Featured Speakers

- Kevin J Anchukaitis, Assistant Scientist, Dept. of Geology and Geophysics, WHOI
  Research: Tree-ring research to study past climate and environmental change.
- Carol Anne Clayson, Associate Scientist Physical Oceanography, WHOI
  Research: Calculating Evaporation from the Ocean
- Michael Polito - Postdoctoral Scholar, WHOI
  Research: Antarctic climate change and its impact on populations such as penguins

Afternoon Workshops

- Science Cruise with The Zephyr Education Foundation Inc.
- WHOI Dock Tour with Hovey Clifford
- Lesson Share: Come prepared to share a lesson and receive lessons related to The Global Ocean

Awards

- Send all nominations to Lydia Breen at lbreen@stonehamschools.org

Registration

- Registration can be completed at the following link: https://massmarineeducators.wufoo.com/forms/2013-woods-hole-conference/
- If you have any conference questions, contact Erin Hobbs at ehobbs@newburyport.k12.ma.us

www.massmarineeducators.org