

The Nauplius[®]

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Spring/Summer 2005



NAUPLIUS NOTATIONS



I am pleased to announce a first in SENEME history – sponsorship of an issue of *The Nauplius*! Funding for this issue is being provided by The Center for Ocean Science Education Excellence – New England (COSEE-NE). As you will see when you peer inside, COSEE-NE also provided a number of articles and a Plankton Tow lesson plan for this issue. I think you will learn a lot about what COSEE-NE does, how they are connecting researchers and educators and how they are a great regional resource for New England educators. And, although I hate to have you tearing apart your newsletter, you will find a great plankton identification key included in their materials. Luckily, it is available (in color!) on the COSEE-NE website. If your membership is running out, you will want to renew soon, because the fall issue of *The Nauplius* will contain another useful lesson plan from COSEE-NE on the carbon cycle. I hope you enjoy all their great material, and on behalf of the SENEME Board, I would like to thank COSEE-NE for their wonderful support.

Make sure you mark your calendars for “Coals on the Coast” on August 26, 2005 and the “SENEME Fall Conference & Annual Meeting” on October 15, 2005. These are fun and educational events and a great opportunity for SENEME members to connect and share ideas. There will also be a contingent of SENEME members going to Maui, HI for NMEA 2005 next month. If you will be there, make sure you come to the SENEME Chapter Meeting, the most entertaining chapter meeting at the Conference!

Lastly, I would like to give my best wishes to Lance Arnold upon his retirement from Tolland High School. As most of you know, Lance has been a SENEME member for YEARS. He also served on the SENEME Board of Directors and as a Co-Chair of the famous NMEA 2002 Auction. Rumor has it that we won't find Lance lounging in his lawn chair for too long when the school year ends, but hopefully he will find time for some well-deserved relaxation. Congratulations, Lance!!

Enjoy your summer!



Donna R. Dione, SENEME President

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Thank you for your support!!

SENEME LIFE MEMBERS

2002 Find Pedersen

2003 Mickey Weiss

2004 Thaxter Tewksbury

The Nauplius is the newsletter of the Southeastern New England Marine Educators Association (SENEME) and is published three times per year for members of SENEME. Submissions including (but not limited to) articles, activities to share, student projects, pictures of SENEME members in action, recipes, other organization's announcements and Bulletin Board items are welcome for all issues. The opinions expressed by authors published in this newsletter do not necessarily reflect the views of SENEME and all its Board members. SENEME is not responsible for any typographical errors that may occur within this publication. Permission is granted by SENEME for readers to make copies of newsletter items for their own, non-commercial use.

Please send submissions and suggestions to Donna R. Dione, 146 Essex Street, Deep River, CT 06417-1901; e-mail: senemeboard@yahoo.com; or fax: 860-526-8392. When sending items via computer disk or e-mail, it is helpful to have them typed in Microsoft Word, in the font of "Times New Roman, size 10". All disks and pictures will be returned.

The deadline for the Spring/Summer issue is October 20, 2005 with Bulletin Board items dated for events occurring after December 1, 2005.

COSEE

NEW ENGLAND

What Is COSEE-NE?

The Center for Ocean Science Education Excellence-New England (COSEE-NE) is part of a national network of seven COSEEs that are responsible for facilitating collaboration and communication between ocean science researchers and educators. Created in 2002 by the National Science Foundation's (NSF) Division of Ocean Sciences, each COSEE has its own identity and purpose. COSEE-NE is a partnership between the New England Aquarium, Woods Hole Oceanographic Institution (WHOI), and the University of Massachusetts-Boston. Our focus is on developing, presenting, and evaluating innovative models for engaging researchers in education and for importing ocean science research into formal and informal education settings throughout New England.

From the outset, COSEE-NE has focused its strategy on building pilot programs. “New England has rich resources in the form of world-class ocean research and educational institutions and organizations,” says Carolyn Levi, Director of COSEE-NE. “We are developing new models for bringing researchers and educators together to create lasting partnerships and increase public knowledge and awareness of the ocean.”

The long-term goal of COSEE-NE is to strengthen the understanding and appreciation of the oceans and their importance for audiences of all ages, in both informal and formal education settings, within a region-wide collaboration. To help reach that goal, we have begun to disseminate our model projects throughout the region, forming new partnerships with New England schools, institutions and museums, and bringing our work to new audiences.

Three of the pilot programs developed by COSEE-NE are beginning their third generation and are now being offered at other locations throughout the region. The workshop *Telling Your Story, or How to Survive a Classroom Visit*, was developed with scientists’ needs in mind, giving them specific ideas on how to work with the classroom teacher to plan, conduct and follow-up on a classroom visit. To encourage partnerships between scientists and informal educators, COSEE-NE developed *Sharing the Challenge of Ocean Science Education*. In this workshop, scientists and educators share ideas on how to deliver key messages about ocean science to the public by developing scientifically accurate programs and exhibits. In addition, COSEE-NE also developed the *Ocean Science Education Institute (OSEI)*, an opportunity for middle school teachers to train with marine scientists in an intensive environment. Read on for more in-depth information about these exciting model projects!



Helping Scientists and Educators Connect

COSEE-New England has heard from both scientists and educators that it can be a challenge to find appropriate partners for ocean science education and outreach. Scientists don't always know where to find a receptive audience, other than at conferences. Meanwhile, educators often have a hard time creating lessons and exhibits that incorporate cutting-edge science because they're not sure where to look. It's not so easy to make the connection.

We're hoping to help change that. One way is by creating an online tool that both scientists and educators can use to find potential collaborators.

One example of such a tool that is already in use is the Registry of Science Outreach Volunteers (ROV) offered by the Woods Hole Science and Technology Education Partnership (WHSTEP). WHSTEP is a partnership of schools, scientific institutions, businesses, and community resources, whose purpose is to support, promote, and expand science and technology education and science literacy in the participating Massachusetts communities of Falmouth, Mashpee and Bourne. The purpose of the ROV is to help local teachers and students connect with researchers or others in the community who have scientific knowledge that they would like to share in an educational setting.

The ROV is the brainchild of Dr. Karen Bice, an Associate Scientist at WHOI, which grew out of her participation in the COSEE-NE project *Telling Your Story*. In discussions with other scientists, Dr. Bice discovered that those who are not parents of school-age children don't always know which resources local teachers look for, nor how to readily offer help. At the same time, local teachers who were asked said that what they most wanted was an easy way to identify a willing outreach volunteer. Through these conversations Dr. Bice was motivated to set up the ROV as an answer to these needs.

Using the web-based registry, volunteers can offer to provide specific activities (e.g., mentor a student or teacher, visit the classroom, assist with education grant proposal writing, or accompany a field trip) or materials (such as samples, data, and hands-on activities). The outreach options give volunteers new ideas about how to interact with teachers and students, and give teachers new ideas about available resources and current scientific research.

The ROV currently has 80 registrants from 9 different scientific organizations in the Woods Hole area. During the fall 2004 semester, the first months of availability of the ROV, at least five classroom visits and four teacher workshops were coordinated through the registry. In addition, several local high school students found volunteer mentors for science projects, some of which were completed at the scientist's home institution.

The registry welcomes scientists, technicians, graduate students, teachers and any local community member who has knowledge and enthusiasm to offer. Anyone may search the database of volunteers. For more information, go to <http://www.who.edu/ccod/rov.html>.

Connections That Work

COSEE-New England has sponsored a number of programs that help scientists and teachers connect, with overwhelmingly positive results. Oceanographer Alison Macdonald participated in two COSEE-NE workshops. The first, *Telling Your Story*, helped her understand and prepare appropriate materials to bring to the classroom. She then joined *OSEI* in order to put her new skills to work. She has since brought her presentation to a number of classrooms, instilling an enthusiasm for ocean science in middle school students. She also gave her presentation at the 2004 Boston Harbor Educators Conference. She is eager to do more. To read more of her story, go to <http://necosee.net/activities/articledetail.php?recordID=48>.

In 2004, researcher Jian Lin and fourth grade teacher Nicki Bibbo both participated in *Telling Your Story*. The experience inspired Jian to prepare a presentation on earthquakes under the sea and bring it to Nicki's classroom. Enjoy their impressions of their collaboration at <http://necosee.net/activities/articledetail.php?recordID=20>.

And for a success story with a different focus...

Dr. Rebecca (Becky) Gast, an associate scientist in the WHOI Biology Department, participated in the second *OSEI*. She was teamed up with four teachers from the New Bedford Global Learning Charter School (NBGLCS) in a collaborative partnership to develop new curriculum specifically using marine plankton. In the process, Becky discovered that the school did not own any microscopes – a condition which makes learning about plankton a bit

more challenging. Through her husband, who works for the United States Geological Survey in Woods Hole, Becky found five old microscopes that the USGS no longer needed. She and her husband began the process of requisitioning the surplus microscopes last summer; by fall 2004, NBGLCS had five microscopes to call its own.

As part of her work with the school, Becky gave three talks to the 6th through 8th grade students. Though she hadn't spoken to school groups before, her work with the NBGLCS teachers helped her to better understand how to approach the task. She learned that the sixth graders were focusing on cell structure and how to recognize differences between various plankton. The seventh grade examined how different plankton evolve and adapt to different environments and how they might reflect changes in climate, while the eighth grade looked at plankton through the lens of how humans affect the environment. Becky says she has enjoyed being involved in *OSEI* and plans to continue working with the NBGLCS teachers.

Teacher Resource Center at New England Aquarium

The New England Aquarium Teacher Resource Center offers:

- * traditional loan of educational materials (from a collection of several thousand objects);
- * consultation to individual teachers working with students on aquatic projects;
- * a variety of professional development offerings ranging from graduate-level courses and summer institutes to brief afterschool and weekend workshops.



Our Teacher Resource Center offers a comfortable setting for free access to one of the major collections of current and archival curriculum on aquatic and environmental education themes. We serve over 3000 teachers a year through whom over 100,000 students partake in the Aquarium mission.

Please contact the Aquarium's Teacher Resource Center with your questions: e-mail: trc@neaq.org, phone: 617-973-6590.

Success In The Middle School Classroom

COSEE-NE's project OSEI (Ocean Science Education Institute) has just finished a phenomenally successful second year. Researchers teamed up with teachers and district science coordinators from four different Massachusetts' school districts and produced fantastic classroom materials for eight separate curriculum development projects - from a food web game to student-published pamphlets that were distributed to over 700 residents, to a tsunami website that has received over 40,000 hits to date. Most of these projects will continue next year, and some of them are being replicated in other school districts. One project, focusing on marine plankton, is highlighted below. To read more about the projects and access more classroom materials, go to the COSEE-NE website and look at the activities index <http://necosee.net/activities/articles.php> and links for educators <http://necosee.net/resources/links.php>.

In Boston Public Schools, the science curriculum is provided by the Full Option Science System (FOSS). FOSS is a research-based science curriculum for grades K-8 developed at the Lawrence Hall of Science, University of California at Berkeley. This year three OSEI teams developed ocean science middle school curriculum to compliment FOSS Kits. One of them focused on introducing the world of marine plankton into the curriculum as an extension of the mini-pond kit. One of the researchers involved, Dr. Juanita Urban-Rich, UMass-Boston, developed many materials through her work on the project, including a plankton video (coming soon to a website near you!) and a poster depicting common marine plankton. (See later in this issue.) In addition, teacher Derek Strohschneider developed lesson plans for constructing a plankton tow. (See next page for plankton tow lesson plan. For more plankton classroom materials, go to <http://necosee.net/resources/links.php>.)

In addition to the development of exemplary classroom materials, there were benefits for all OSEI participants. Researchers experienced new perspectives on middle school learning and enhanced respect for teachers; students were able to see scientists as real people and gained a better appreciation for scientific work, thus becoming something to aspire to; teachers got insight into the research process, plus classroom science content that is consistent with curriculum, and they were able to get three graduate credits through UMass Boston Division of Corporate, Continuing & Distance Education Program.

The following lesson plan was developed by Derek Strohschneider, 7th grade science teacher at the Plymouth Community Intermediate School. The plan was developed as part of the plankton exploration project of OSEI, a COSEE-NE program.

PLANKTON TOW PROJECT

Name: _____ color: _____ TOC # 126

PURPOSES:

- To work in a cooperative group to plan and build your own plankton net.
- To test the plankton net's ability to obtain samples of plankton.
- To view the collected plankton samples under the microscope.
- To investigate the biodiversity of plankton.
- To compare and contrast both fresh and salt-water plankton. (Long-range goal)

PROCEDURE:

- a.) Form a cooperative group of about 4 students.

LAB PARTNERS:

- b.) Brainstorm what common household objects you could use for the following parts of your plankton net: towing bridle; hoop or collar; filtering material; collector
- c.) Record your brainstormed ideas in your data section.
- d.) Think about shape, size, structure, durability, flexibility, and "getability" (this means do you have it or can you easily get it).
- e.) Decide on who can and will commit to bringing in what materials and supplies.
- f.) Determine what miscellaneous supplies you will need to build your plankton net in class.

ASSESSMENT:

Your project is worth a 100-point test grade. Your project grade is based on the following:

- ⇒ *how well you work in your cooperative group;*
- ⇒ *follow-through on bringing in materials;*
- ⇒ *teamwork and focus and help in the plankton net construction;*
- ⇒ *overall contribution to the group effort;*
- ⇒ *successful completion of the project;*
- ⇒ *completed plankton net lab packet.*

PLANKTON NET BRAINSTORMING:

TOWING BRIDLE MATERIALS:

- 1.) What does the towing bridle need to be able to do?

- 2.) What are characteristics of the towing bridle?

- 3.) List at least 3 different possible materials that you could use for the towing bridle.

- a.) _____
- b.) _____
- c.) _____

4.) Which material do you think will work the best? Which material did your group decide on?

HOOP OR COLLAR MATERIALS:

1.) What shape does this part of the plankton net have?

2.) What things do you have at home that have this shape?

3.) What does the hoop / collar part of the plankton net need to be able to do?

4.) Does it need to be rigid or firm or flexible or a combination of these?

5.) List at least 3 different materials that you could use for the hoop or collar.

- a.) _____
- b.) _____
- c.) _____

6.) Which material do you think will work the best as the hoop or collar?

FILTERING MATERIAL:

1.) What does this part of the plankton net need to do?

2.) What are some important characteristics of the filtering material?

3.) List at least 3 different materials that you could use for the filtering material that would seem to have the needed characteristics that you indicated above.

- a.) _____
- b.) _____
- c.) _____

4.) Which materials do you think will work the best as the filtering material of your plankton net?

COLLECTOR MATERIAL:

1.) What does the collector part of the plankton net need to do?

2.) What are some important characteristics of the collector?

3.) List at least 3 different materials that could be used for the collector.

- a.) _____
- b.) _____
- c.) _____

4.) Which material do you think will work best as the collector?

WHO WILL BRING IN WHAT?

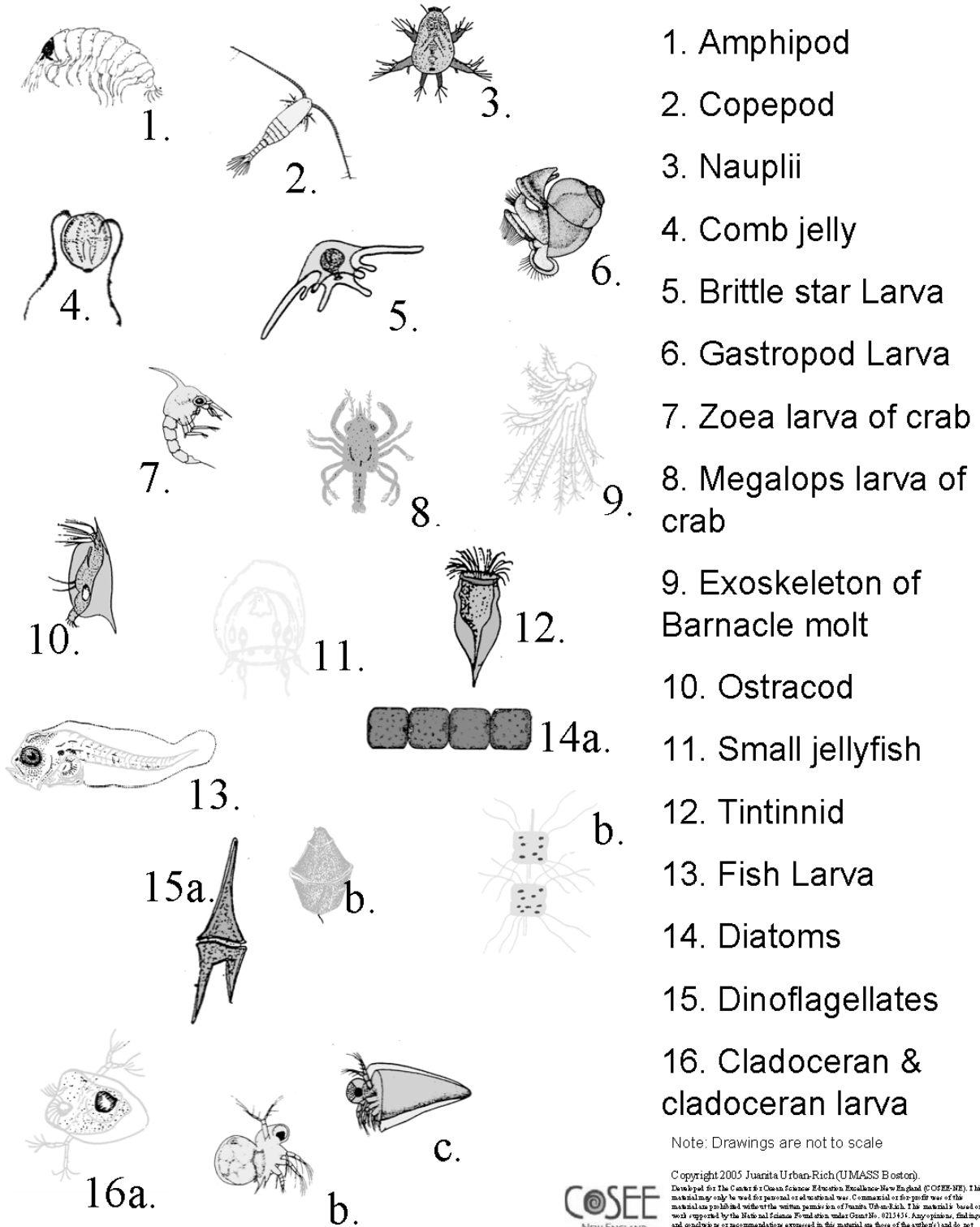
LAB PARTNER	PART OF THE PLANKTON NET	MATERIALS TO BE BROUGHT IN
	TOWING BRIDLE	
	HOOP or COLLAR	
	FILTERING MATERIAL	
	COLLECTOR	

MISCELLANEOUS SUPPLIES THAT YOU WILL NEED:

SKETCH OF YOUR PLANKTON NET

Identification of Common Marine Plankton

Key



1. Amphipod
2. Copepod
3. Nauplii
4. Comb jelly
5. Brittle star Larva
6. Gastropod Larva
7. Zoea larva of crab
8. Megalops larva of crab
9. Exoskeleton of Barnacle molt
10. Ostracod
11. Small jellyfish
12. Tintinnid
13. Fish Larva
14. Diatoms
15. Dinoflagellates
16. Cladoceran & cladoceran larva

Note: Drawings are not to scale

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Lobster Literacy Conference— It’s not about lobsters learning to read...

In Maine, there is a long tradition of life lived close to ocean resources. Fishing, shipping, clamming and lobstering are all part of a rich heritage. The Island Institute in Rockland, Maine is a membership-based community development organization working to sustain the islands and communities of the Gulf of Maine. One of their key techniques is to support educational opportunities in island and coastal communities, taking advantage of the increased interest in place-based curricula. More and more teachers are realizing that creating curriculum that connects with students’ lives and their environment is a wonderful way to empower learning.

With the support of COSEE-NE, the Island Institute hosted a “Lobster Literacy Conference ” in December 2004. They brought together teachers, scientists, anthropologists and lobstermen to develop ways to use lobsters to engage students in learning. Participants came from the local communities of Vinalhaven, North Haven, Chebeague Island and Long Island.

Kristin Rohrbach is the 3rd and 4th grade teacher at the Chebeague Island School. “Lobsters are a really nice way to tie the community in with the school, to make connections, as opposed to only reading stuff out of books,” she said. Meeting lobstermen and scientists helped Kristin to better understand lobsters’ habitats and their natural history. She received a small grant from the Island Institute to purchase equipment for her students so that they could raise larval lobsters in their classroom, which began in early May. The students also interviewed lobstermen from Chebeague Island and then built a website to showcase the interviews, with the help of students from Bowdoin College.

Kristin enjoyed being able to create these opportunities for her students to be involved in learning about their community. “It will help make science more relevant for them,” she said. “My own science education was sorely lacking. When I did have hands-on, it wasn’t connected to what was around me. Lobsters are part of my students’ community.”

By the end of the two-day conference both scientists and educators were able to leave with plans. Teachers knew how to incorporate what they had learned into their schools and where the resources for those projects within their communities were available. Researchers understood how their work could be integrated into classroom studies and how to establish connections with local teachers who were interested in using their work as a resource.

To find out more about the Lobster Literacy Conference, go to <http://www.islandinstitute.org>.

If You’d Like to Know More About COSEE-NE...

There is much more information available on the COSEE-NE website, which can be found at www.necosee.net. There are many potential classroom materials – the wave lab http://msg.who.edu/String_Lab/New_String_Movies.html, a video of scallops swimming <http://necosee.net/activities/videopage.php>, a guide to grants for classroom support <http://necosee.net/resources/grants.php> and much more. Take a look and check back often. COSEE-NE also publishes a quarterly electronic newsletter, NEwswave, which provides news and updates plus notices for future opportunities. To subscribe, email Kevin Blinkoff at kblinkoff@neaq.org. And on the website you will also find a wide-ranging calendar of events related to ocean science education <http://necosee.net/calendar.html>. Check it out, and be sure to send in your own submissions. Help build a common resource for marine researchers and educators!

COSEE-NE material was written and edited by Catherine Cramer, John Anderson, Carolyn Levi, Kim Frashure and Stephanie Murphy.



BULLETIN BOARD



Mystic Aquarium & Institute for Exploration

Life At The Extremes

Come to Mystic Aquarium & Institute for Exploration to join Immersion Presents Life at the Extremes. Is the bottom of the sea the missing link to the beginning of life? It's starting to look that way. In late July 2005, Dr. Robert Ballard and Dr. Deborah Kelley are leading a scientific adventure, Life at the Extremes, to explore the newly discovered Lost City hydrothermal vent field, searching the seafloor for clues to life's start. There will be four half-hour shows per day once the Broadcast begins. The Broadcast runs July 23 to August 1. (These dates are subject to slightly change). Once the Broadcast begins, the times for the shows will be 10:00 am, 12:00 pm, 2:00 pm and 4:00 pm. They will be taking place in the Immersion Theater that is located in the *Challenge of the Deep*. For further information contact Kathy Hoy, Director of Programs of Immersion Presents at 860-572-5955 ext. 219.

Plymouth Whale Watch

Nothing compares to the thrill of seeing the ocean's gentle giants in their natural habitat. Climb aboard our chartered whale watching boat and travel to the popular whale feeding grounds in Cape Cod Bay in search of humpback, finback and minke whales. The boat allows excellent viewing from both decks! Boat departs from Plymouth, MA. Travel to and from Plymouth is on your own. Saturday, August 6, 2005, 2:00 - 6:00 pm; Aquarium members: \$33 adult/\$24 child (ages 3-12); Non-members: \$40 adult/\$29 child. Call Mystic Aquarium & Institute for Exploration, 860-572-5955 ext. 520 to make a reservation.

Volunteer Docents Sought for Mystic Aquarium & Institute for Exploration

What do docents do?

Share accurate, consistent, quality information about Mystic Aquarium and its collection to guests of all ages, either in groups or one-on-one. Help initiate contact with guests and provide a positive experience through being helpful, friendly, and knowledgeable. Docents teach at various exhibits including beluga whales, seals, sea lions, penguins, marine invertebrates, and Dr. Robert Ballard's deep-sea exploration exhibit known as *Challenge of the Deep*.

What's in it for me?

Benefits include the ongoing chances to learn through lectures, hands-on learning opportunities and field trips. Docents have assisted beyond their typical role with stranded mammal events, animal training, overnights at the Aquarium and special events. Although motivations vary, assisting with a non-profit facility like ours can help expand your resume, explore a new career field and meet people.

How can I get involved?

We do have upcoming training sessions planned. Upon applying and a successful interview, you would need to attend a series of classes to be planned for the fall. Upon completion of training, we look for at least a six-month commitment of ½ day per week or a full day alternate weeks in this education role. Docents need to be at least 18 years of age, but we do offer a summer docent program for those aged 15-17. Please contact the volunteer office for further details on the summer program.

If interested in becoming a docent, you can apply at our web site:

<http://www.mysticaquarium.org/feetwet/volunteer/volunteer.asp>. If you have further questions, don't hesitate to call or email the Volunteer Coordinator at 860-572-5955 ext. 209 or volunteer@mysticaquarium.org.



BULLETIN BOARD



URI's Narragansett Bay Classroom

Historic South Ferry Walking Tours

Enjoy popular one-hour interpretive walks featuring the historic South Ferry area. Led by Wayne and Bernice Durfee, the program begins with a half-hour presentation of historic photos at the Coastal Institute Visitor Center. The walk then ventures down to the site of the old ferry landing, near the remains of WWI military bunkers overlooking Narragansett Bay, and through the campus of the Graduate School of Oceanography.

When: Thursday, July 28 or Thursday, August 11, 2005, 10:30 am – noon.

Where: Meet at the Coastal Institute Visitor Center, URI Bay Campus.

FREE, Preregistration NOT required; tours are designed for adult audiences.

Project Oceanology

The public programming trips begin on June 13, 2005. These include tours of the New London Ledge lighthouse, as well as our hands-on Ocean-Intro trip aboard the *RV EnviroLab*.

This summer, for the very first time, we are offering Grown-up Camp weekends. These are Ecology- and Lighthouse-based weekends.

Call Project Oceanology at 860-445-9007 for more information on these programs.

Eisenhower National Clearinghouse

The Eisenhower National Clearinghouse (ENC), a significant national source of information and classroom support for K-12 science and math educators, has announced the creation of a new online resource for schools: goENC.com. The new goENC.com web site will be available beginning in August, 2005 to subscribing schools at \$349.00 per year for unlimited access for all teachers. (goENC.com is offering a special rate of \$299 for schools that subscribe by June 1.) Besides offering access to a comprehensive database of more than 27,000 math and science product and web site reviews, goENC.com will also offer thousands of lesson plans and activities to support standards-based teaching; and articles covering teaching ideas, resources and success stories. Subscriptions are also available at \$495 per year for education agencies, associations, foundations, and other organizations interested in school improvement.

ENC's current free web services at www.enc.org will end in September 2005 due to the termination of funds by the US Department of Education. For further information and subscription order forms, visit <http://goENC.com> or call 800-471-1045.

~Look to the Source, Look to the Sea~
National Marine Educators Association Conference
July 11-16, 2005
Maui Community College
Kahului, Maui, Hawai'i
www.hawaii.edu/maui/oceania/NMEA05.html

News from NMEA: Look to the Source

By Diana Payne, SENEME Chapter Representative to NMEA

This year's mid-year NMEA Board meeting at NSTA brought some exciting news for SENEME – our own Thaxter Tewksbury has been nominated to run for NMEA President-Elect! If there was ever a time to join NMEA, this is it! Results of the election will be announced at the NMEA Annual Meeting and Conference.

The 2005 NMEA Conference will take place July 11-16 in Maui, Hawai'i. The conference theme is *Nana I Ke Kumu, Nana I Ke Kai – Look to the Source, Look to the Sea*. According to the conference hosts, the word kumu has many other meanings, including basis or foundation, reason or purpose, and teacher. This promises to be a spectacular event, with nine concurrent workshop sessions, a wide array of field trips and speakers, and an international forum on July 17 and 18. If you are planning to attend, please let me know – we'd love to have a large, vocal contingent at the SENEME Chapter Meeting! And don't forget to pack your red NMEA 2002 t-shirts!!!!

For those unable to attend the Annual Meeting in Hawai'i this year, mark your calendars for upcoming meetings closer to home! The 2006 NMEA conference is scheduled for New York's Long Island University, and the 2007 conference is slated for Maine! More information will be provided as it becomes available. Check the NMEA web site www.marine-ed.org for the most current news.

As your Chapter representative, I submit updates twice per year to the NMEA Board regarding SENEME activities. This list is meant to include awards, activities and presentations by all SENEME members – not only Board members. The submission provides information to the NMEA Board regarding each chapter's activities and involvement in local, regional and national activities. If you have an item that should be included in this report, please email me at diana.payne@uconn.edu. Submissions are due in early March and late June, but feel free to send it to me as soon as you think of it. With the exceptional aquatic and maritime history of the Ocean State and the Constitution State (well, at least the state animal IS the sperm whale!!!), our incredible ability to “make known the world of water, both fresh and salt”, should be shared with other like-minded educators! The Atlantic Ocean and Long Island Sound and associated watersheds remain important sources of our educational, aesthetic, recreational, and economic well-being.

ELECTION!! ELECTION!!

The Election of Officers will be on October 15, 2005 at the SENEME Annual Meeting to be held at Project Oceanology in Groton, CT. In order to conduct this successfully, we are seeking nominations of those who are interested in joining the SENEME Board as an officer.

The SENEME Nominating Committee is currently accepting nominations for the offices of President-Elect (3-year term: 1 year as President-Elect, 1 year as President and 1 year as Past President), Membership Secretary (2-year term) and Chapter Representative (1-year term).

Nominations must be received no later than August 15, 2005. Send nominations to the SENEME Nominating Committee, c/o Katrina Barrett, Mystic Aquarium & Institute for Exploration, 55 Coogan Blvd., Mystic, CT 06355-1997 or e-mail tbarrett@mysticaquarium.org.

Ballots will be mailed to all members in September. For further information, contact Katrina Barrett via the above e-mail or at 860-572-5955 ext. 205.

CONGRATULATIONS!!

WINNERS OF SENEME SCIENCE FAIR AWARDS



This spring, SENEME presented awards to students at the Rhode Island and Connecticut State Science Fairs. There were two winners (or winning teams) from each state with all four receiving a prize of \$75, a SENEME T-shirt and a one-year SENEME membership. In Rhode Island, the Senior Award went to Alexandra Bowen of La Salle Academy for her exhibit "How Does Habitat Diversity Affect the Abundance of Guppies (Model Organism)." Christine Stimson of St. Margaret School won the Junior Award for her study entitled "Purifying Rhode Island Waters" (her focus was the Blackstone River). The Connecticut winners were Rochelle S. Ellis and Madeline E. Cuadrado of Harding High School in Bridgeport who won the Senior Award for "The Effect of Salinity on the Amount of Dissolved Oxygen and Biochemical Oxygen Demand in an Estuary," and Stacey Berkowitz and Hannah Dreyfus from Hillel Academy in Fairfield who won the Junior Award for "Quantitative Analysis of Marine Protista/Invertebrate As Cancer Inhibitor and Antioxidant."

The SENEME Board would like to give special thanks to Maryann C. Scholl of the Office of Marine Programs at URI Graduate School of Oceanography and Katrina Barrett and Mary Ellen Mateleska from Mystic Aquarium & Institute for Exploration for representing SENEME as judges at this year's Science Fairs.

Congratulations to Cranston High School West from Cranston, RI who won the 8th Annual National Ocean Sciences Bowl in Biloxi, MS. Cranston West was undefeated through the first day of competition and went on to claim this year's first place win!

MEMBER SPOTLIGHT

Through this regular feature, you get a chance to "meet" some of your fellow SENEME members. Throughout the year, we will be mailing profile questionnaires to new and renewing members. If you do receive the form, we ask that you consider taking the time to fill it out so that you can be "introduced" to other members. If you don't hear from us, and would like to fill out a profile, please contact the SENEME Board at senemeboard@yahoo.com. Below meet a couple more SENEME members.

John McNulty resides in East Haddam, CT. He has been a SENEME member for over ten years. John is also a member of CSTA, NABT, CTABT and NEA. He has been teaching at Berlin High School in Berlin, CT for 35 years. During the summer, John also has worked at Project Oceanology as a Tourist Program Instructor on EnviroLab I & II. John's special interests include teaching biology, hiking and fishing. He will gladly help anyone with teaching biology/marine biology labs! John is proud of the fact that he has had many AP Biology students sleep overnight on the New London Ledge Lighthouse and has not lost any. He also now has students stay overnight at the Project Oceanology Youth Hostel.

Jeff Sack resides with his wife and daughter in Chester, CT. He has been a SENEME member for 5 years and a NMEA member for 3 years. John is a member of NSTA, CSTA, NABT and CTABT. He has been teaching at Valley Regional High School for 6 years. Jeff has a MS from Central Connecticut State University and a B.A. from the University of Rhode Island. Some of his special interests include karate, playing drums, scuba diving and computers. His favorite SENEME stories are "Getting stuck in the elevator" and "Catching 2 bluefish in 2003!"

*****SAVE THE DATES*****

Coals on the Coast

August 26, 2005

Project Oceanology

Groton, CT

Watch your mail this summer for the exciting details!!

2005 SENEME Fall Conference and Annual Meeting

Saturday, October 15, 2005

Project Oceanology

Groton, CT

Workshops, Field Programs, Silent Auction and more!

There are still openings for Presenters and Exhibitors. Visit the SENEME website at www.SENEME.org for the application form.

Contact Thaxter Tewksbury at 860-445-9007, ext. 3007 for more information on Presenting or Registration. Contact Donna Dione at dmrdione@quixnet.net if you have an item to donate to the Auction.

FROM THE BOARD ROOM.....

The SENEME Board would like to report the following Committee updates:

The Scholarships and Awards Committee has extended the deadline for submitting nominations for the 2005 Marine Educator of the Year and Life Member Awards until July 15, 2005. Information and the Nomination Form can be obtained by visiting the SENEME website at www.SENEME.org or by contacting Lauren Rader at 860-445-9007 ext. 3021 or ocean10@uconnvm.uconn.edu.

The Board would like to establish a Development Committee, which would be responsible for seeking funding and sponsors for such things as conferences and *The Nauplius*. If you would be interested in joining this Committee, or if you have any contacts or ideas for funding sources please contact Diana Payne at diana.payne@uconn.edu.

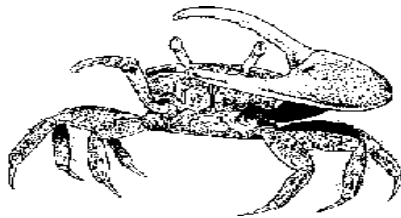
Another new committee is the Public Relations/Membership Committee which will be involved in recruiting new members and promoting the SENEME organization and SENEME-sponsored events. If you would like to be involved with this Committee, please contact Heather Blankenstein at educator@schoonerinc.org.

Best wishes to former Board Member, Lance Arnold, on his retirement from Tolland High School!!

DATES TO REMEMBER

July 11-16, 2005	NMEA 2005 – “Look to the Source, Look to the Sea,” Maui, Hawai’i
August 26, 2005	Coals on the Coast, Groton, CT – Evening Time TBA
October 15, 2005	SENEME Fall Conference and Annual Meeting, Groton, CT
October 20-22, 2005	NSTA Regional Conference, Hartford, CT
July 2006	NMEA 2006 – Long Island University, Brooklyn, NY

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SENEME
c/o Project Oceanology
1084 Shennecossett Rd.
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Groton, CT 06340

20th Anniversary



1983-2003



