



The Nauplius

www.seneme.org

Volume XXI

Winter 2010
Number 2

Letter from the President

Throughout the winter, I view the daily changes of Long Island Sound, and it is impossible for it not to capture my emotions in some small way. One day, it is a turbulent gray that makes me want to huddle near a fire and read a good mystery. While on next day, it is a calm silvery sea, and I am hopeful that I might spot a seal resting on a nearby rock. Perhaps, the truest and simplest emotion I experience is happiness. I love the ocean, and I want my students to love it. More importantly, I want them to care enough about the ocean that they will protect it. So where to begin? How do I get my students to care and conserve?

One of my goals in my presidency is to provide educators with ways to incorporate marine science and current research into our curriculum. I have enjoyed two different careers as a marine educator, starting off as an informal educator and now as a formal educator. In both roles, I have experienced the strain of delivering the curriculum's content while teaching topics that are interesting to my students. Sometimes they match perfectly and other times not so much. Fortunately, many students are naturally interested in the ocean. However, only a small number of these bright-eyed freshmen are going to join me in marine biology in two years. I wish they all did – they are great kids! However, they will not, so I have this time to get them to understand that oceans are important. Therefore, there have to be ways to integrate marine science into the lessons on cells, genetics and ecology.

I am in the midst of my third year teaching, and each year I am learning new ways to incorporate ocean literacy into my biology curriculum. Some units are easy. In evolution, we can study whale fossils, or in ecology, we can investigate how mercury bioaccumulates in a marine food web. Yet in other units, the ocean literacy connection is not so easily recognized. If you look closely though, you may be surprised. When teaching about osmosis, have students investigate the remarkable adaptations anadromous fish like salmon have to move between seawater and freshwater. When talking about pH, investigate the impact of ocean acidification upon mollusks. How about a chemistry class examining why PCBs accumulate in fat tissues of beluga whales? Of course, my new favorite is enzymes and bioluminescence! Jackpot – got to love luciferase! Check out your own curriculum, explore ways to add more ocean literacy and share your ideas. Maybe you're an expert already or just starting out; I'd love to hear from you.

As for me, we just finished learning about the structure of DNA. Maybe next year, I will incorporate a lesson on sea star DNA or protein synthesis in salmon. Of course, if I can mention seals somehow, well, then my life will be complete.

Hope to see you at one of upcoming events such as the Long Island Sound Educators Conference on April 30th at The Maritime Aquarium in Norwalk, CT or the Inner Space Center Tour at the University of Rhode Island in Narragansett, RI on May 27th. Have a great spring!

Amy Ferland
SENEME President

In this Edition:

Nauplius Notations	2
Various Announcements	3
Nauplius Nostalgia	4
News from NMEA/Oceans a la Carte.....	5
NMEA 2010.....	6
Inner Space Center Event.....	7
Bulletin Board	8
Membership Application	9
Dates to Remember	10

SENEME Board of Directors & Committee Members 2009-2010

President

Amy Ferland, Greenwich High School

President-Elect and Chapter Representative

Lauren Rader, Project Oceanology

Past-President

Jenna Carlson, Greenwich High School

Treasurer

Julie Ainsworth, Bauer Park

Membership Secretary

Clive Tucceri, East Hampton Middle School

Interim Recording Secretary

Kelly Matis, Mystic Aquarium & IFE

Members-At-Large

Kristen Andrews, Schooner Inc.

Katrina Barrett, Mystic Aquarium & IFE

Andrea Kecskes, URI Office of Marine Programs

Diana Payne, Connecticut Sea Grant

Maryann Scholl, URI Office of Marine Programs

Thaxter Tewksbury, Project Oceanology

Newsletter Editor

Donna Dione, Bauer Park

Editorial Assistants

Julie Ainsworth

Katrina Barrett

Webmaster

Jenna Carlson

Development Committee

Chair - Vacant

Ian Gibson

Kathy Howard

Maryann Scholl

Membership & Public Relations Committee

Jenna Carlson, Chair

Joann Tammaro

Linda Livolsi

Nominating Committee

Jenna Carlson, Chair

Katrina Barrett

Scholarships & Awards Committee

Lauren Rader & Amy Ferland, Co-Chairs

Nauplius Notations

By Donna Dione, Editor



As I'm putting this newsletter together (beginning of February), it is the week of a big anniversary for me. It has been 20 years since I began my association with Mystic Aquarium, first as a staff member and currently continuing as a volunteer. My starting position in the Education Department was as the "Sea Urchin Coordinator." This had nothing to do with prickly echinoderms but was a summer program where teens were exposed to various facets of the ocean and working at the Aquarium. Since I had to know something about what the kids would be doing, the position started with me coming in every Saturday and working in various departments of the Aquarium. In retrospect, what a great way to start a job! I don't think there are many people who can say they had the opportunity to work in almost every department of the Aquarium. Add to that the old Scout Days in March where I got to dress up as a Sea Star on the Marine Theater stage and prance around in front of dolphins, belugas and thousands of people. What a way to start a career in Marine Education!!

Reflecting back it just amazes me to think about the journey I've taken from that one day per week job: some of the strangest experiences of my life, worlds of knowledge, lots of fun, life-long friends and a ten-year stint as Editor of this newsletter!!

Hope to see you at a SENEME event as my marine adventure continues!

SENEME Organizational Members

*Mystic Aquarium & Institute for
Exploration*

Project Oceanology

Soundwaters

URI Office of Marine Programs

Thank you for your support!!

SENEME LIFE MEMBERS

2002 Find Pedersen

2003 Mickey Weiss

2004 Thaxter Tewksbury

2005 Ralph Yulo

2006 Elizabeth Gibbs

MARINE EDUCATOR OF THE YEAR

2005 Lance Arnold

2006 Matt Schardt

Long Island Sound Educators Conference

Friday, April 30, 2010 8 am - 4 pm

This valuable conference features workshops, hands-on activities, field studies, lectures and networking for anyone who teaches marine, aquatic or environmental science. Workshops will cover such topics as Local Impacts of Global Climate Change, Diversity of Life and The Human Impact on Long Island Sound. The keynote speaker will be announced at a later date.

Registration includes: materials, membership in the Southeastern New England Marine Educators (SENEME) or New York State Marine Educators Association (NYSMEA) and parking.

For more information, visit the SENEME website: www.seneme.org.

Sponsored by SENEME, The Maritime Aquarium at Norwalk, US EPA-LISS, CT Sea Grant, NY Sea Grant and Project Oceanology

FROM THE BOARD ROOM...

The SENEME Board is currently seeking members to assist the organization by joining one of the SENEME Committees. All committees currently have openings. The committees are: Development; Membership & Public Relations; Nominating; and Scholarships & Awards. If you are interested in joining a committee or would just like more information on a committee, please contact SENEME President, Amy Ferland, at amyferland@gmail.com.

The Office of Marine Programs (OMP), a SENEME organizational member, would like to announce the publication of *World Ocean Census: A Global Survey of Marine Life*, written by three members of their staff.

As participants in the Census of Marine Life Education & Outreach Team, Gail Scowcroft, Darlene Crist, and James Harding, have written a beautifully illustrated, 256-page book which tells the amazing inside story of the Census of Marine Life. Published by Firefly Books with a foreword written by Sylvia Earle, the book highlights the stories behind the Census through lively text and over 250 images, the majority graciously provided by Census scientists. The book sets the stage for the release of the first Census of Marine Life in 2010. Copies are available at Amazon.com.

<http://www.amazon.com/World-Ocean-Census-Global-Survey/dp/1554074347>

Look for more information about the release of the 2010 Census of Marine Life in the next issue of *The Nauplius*.

NAUPLIUS NOSTALGIA

THIS FEATURE RESURRECTS ARTICLES FROM THE ARCHIVES OF "THE NAUPLIUS."
 COMPILED BY DONNA DIONE, EDITOR

REPRINTED FROM *THE NAUPLIUS*, WINTER 1992-3, VOLUME IV, NUMBER 2

SOUND NOTES FROM THE WATER COLUMN

The snow and frozen leaves crunched lightly as we walked along the path deeper into the woods. The air was crisp, and our breath seemed to hang around our heads. It is the time of year when my family takes a winter hike through the woods in search of the perfect evergreen boughs for the Christmas wreath. Much deliberation results as to the best mixture of hemlock, white pine and firs, but our true purpose was to get outside and amble aimlessly together through the winter woods. Gently arching snow-laden branches of hemlock provided a perfect target for a well-aimed snowball, as my unsuspecting brother was powdered. He let out a yelp that scared the dog and echoed through the woods. Much thrashing and crashing shattered the muffled silence of the cold woods air. The snow had fallen the day before and was still fresh. Ice crystals glistened in the sunlight with princess and running pines seeming to have dollops of sparkling ice cream capping their tiny green branches along the forest floor.

A small brook cascaded down a snow-capped, mossy, rock slope. Tiny shelves of ice clung to the sides of the rocks, and water gurgled underneath. As the black water swirled beneath the clear ice shards, bubbles became trapped and spun crazily until they created enough to burp out from under their icy prison. As I was staring so intently into this mesmerizing brook, I must have kindled a jealousy in my dog, for he stomped and tromped triumphantly in the water, splashing and crashing through the ice for my undivided attention. My face was spattered with mud and water, and my father smiled and muttered something about poetic justice. It was getting late, and we had collected some small, but arguably perfect pine boughs. We were beginning to feel the cold especially since some of us were damp from snow battles.

During the summer, I am outside more than in, but once the school year begins, I am trapped inside, forced to breath the school air, with the only light coming from fluorescent bulbs. Just about this time of year, I need to get outside to recharge the cranial capacitor with more natural stimuli. Our objectives were met, we were able to collect some Christmas decorations and get outside for a winter walk in the woods.

By Joseph Hage



The Whale Camp

Summer Employment Positions for Teachers **3-Credit Graduate Course for Teachers**
1, 2 & 3 Week Summer Sessions for Students **Field Trip Programs for School Groups**

For kids & teachers who love the ocean, Whale Camp is a unique opportunity. No other summer program offers as many face-to-face encounters to closely observe and study whales, dolphins, porpoises, seals and puffins in their natural habitat. Through direct observation, scientific data collection and hands-on experience with marine science equipment, the Whale Camp, on stunningly beautiful Grand Manan Island is a place where exploration, inspiration and learning abound.

Visit: www.whalecamp.com Email: whalecamp@verizon.net Call: 1-888-54WHALE

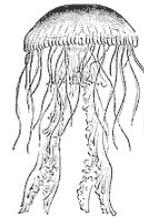
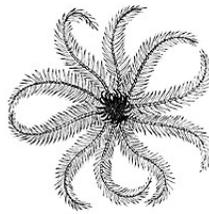
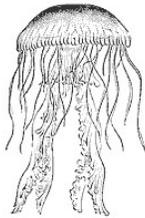
News from NMEA: Looking to the Future

By Lauren Rader, SENEME Chapter Representative to NMEA

In March 2010, the National Science Teachers' Association (NSTA) Conference will be in Philadelphia, PA. NMEA is once again looking forward to hosting a "Whale of a Share-a-thon", where attendees are encouraged to stop by and pick up marine and aquatic related activities and stay for the NMEA track of presentations throughout the day. Each chapter hosts a table at the share-a-thon, and the SENEME table is well known for its welcoming attitude and hands-on activities!

As part of NMEA's dedication to knowledge and understanding of our marine and aquatic ecosystems, the Expanding Audiences (EA) Committee has developed a nomination form and scoring rubric for the Expanding Audiences Conference Scholarship. NMEA members are encouraged to nominate diverse candidates that would benefit from attending the national conference. For more information about the EA scholarship or nomination form, please email me at lrader@oceanology.org. As a SENEME member, it is highly recommended that you join NMEA to take advantage of this and other NMEA opportunities.

Upcoming Events: The NMEA National Conference, *Mountains to the Sea*, will be held in Gatlinburg, TN from July 17 - 23, 2010. Guest lecturers will include Dr. Eugenie Clark and Dr. George Benz, a CT native and UCONN alumni. Registration and lodging are now available. For more information, visit the conference website: www.nmeaweb.org/gatlinburg2010.



Save the date for URI's Office of Marine Programs OCEANS A LA CARTE

****PLEASE NOTE DATE CHANGE****

Saturday, May 22, 2010

8:00 am - 4:00 pm

URI Narragansett Bay Campus, Coastal Institute

Presentations by leading scientists doing research in Narragansett Bay and around the world, hands-on activities, and exhibitors from various environmental organizations will take place during this daylong event for educators.

Registration will be required and more information will be provided on the Office of Marine Programs Website, <http://omp.gso.uri.edu>.

The Tennessee Educators of Aquatic and Marine Science (TEAMS) invite you to Gatlinburg, Tennessee at the foothills of the Great Smoky Mountains National Park

July 19 – 23, 2010

While Tennessee may not have an ocean today, hundreds of millions of years ago Tennessee was covered by a great salt water sea teeming with life. The Smokies were underwater mountains thrust up by the collision of two super continents and received their smooth rounded shapes from the effects of the water. While the ocean is no longer in Tennessee, parts of the mountains still contain fossilized remains of sea creatures.

All water is connected. The water in the babbling brooks, rushing rapids, and serene streams of the Smoky Mountains will make it to the ocean...someday. Come to Gatlinburg and enjoy the quaint mountain setting of NMEA 2010.

Overview:

The Conference begins Monday afternoon with an exhibit preview and reception. Before taking it to the top of Mount Harrison aboard the Gatlinburg Aerial Tramway, we will enjoy the Stegner Lecture performance. Tuesday is jam-packed with general and concurrent sessions. Tuesday will conclude with a fun-filled night at Ripley's Aquarium of the Smokies. Wednesday continues with general and concurrent sessions. During lunch you will have the opportunity to meet with your NMEA chapter. The annual auction will take place Wednesday evening so be sure to bring your checkbook! Thursday offers more general and concurrent sessions. The highlight of the afternoon is the awards presentation followed by a real Tennessee Hoedown at Dumplin Valley Farm. Friday is full of field trips that will take you to exciting destinations around East Tennessee and concludes with a stampede at Dolly Parton's Dixie Stampede.

Important Deadlines to Remember:

Early-bird Registration Deadline – April 1, 2010

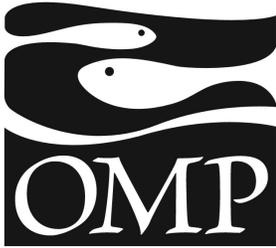
Exhibitor Applications Deadline – April 1, 2010

Hotel Accommodations:

The official conference hotel is the Glenstone Lodge. We have reserved the entire hotel and guaranteed a rate of \$99 plus tax per night. You can have up to 4 people per room for no additional charge. For reservations contact, reservations@glenstonelodge.com or 800-362-9522.

Website: www.nmeaweb.org/gatlinburg2010/

For Questions: Email nmea2010@ripleys.com



**Southeastern New England Marine Educators
(SENEME)**

**Invite you to come and explore
URI's new Inner Space Center**

Thursday, May 27, 2010

4:30 pm

URI GSO Narragansett Bay Campus

The new national Inner Space Center (ISC) at University of Rhode Island Graduate School of Oceanography (GSO) is the command center for ocean science exploration. Presently serving as a hub for exploring the global ocean, Earth's inner space, just as the Kennedy Space Center provides the platform for outer space exploration. One of the most important functions of the ISC, both for the educator and the scientist in their lab, is that it provides immediate live access to the researchers at sites of exploration around the world. Using the ISC as a conduit, any person with an internet connection can have direct video and audio access to the researchers.

Pre-registration required

Registration deadline: Tuesday, May 25, 2010

Name _____

Email address _____

E-mail address must be provided: confirmation of registration will be e-mailed.

_____ SENEME Member* \$5

_____ Non-SENEME Member (includes 1-year SENEME membership) \$20

If you are NOT currently a SENEME member, please complete the following information:

School/Organization (if applicable) _____

Telephone _____

Work Address _____

Home Address _____

Where would you like SENEME information sent? ___ Home ___ Work ___ Email

Participants MUST pre-register by phone or fax (401) 874-6486.
Please call the Office of Marine Programs (401) 874-6500 or fax the
registration form to (401) 874-6486. Payment by cash or check to
SENEME will also be collected at the door.

*Members, please check expiration and register accordingly.



BULLETIN BOARD

Mystic Aquarium & Institute for Exploration

Researcher for a Day - Pathology

Saturday, March 13, 2010

9:30 am - 1:30 pm

Cost: \$30; Appropriate for teachers Grade 6 - Adult

This thrilling class provides firsthand experience in uncovering the mystery of a marine mammal stranding. Teachers will have the opportunity to be hands-on during a necropsy, an animal autopsy, of a local stranded marine mammal. This workshop will review marine mammal internal and external anatomy, the basics of pathology and information on marine mammal strandings. Join us for this unique immersive learning experience!

Art, Science and Literacy in the Elementary Classroom

Tuesday, April 8, 2010

9:30 am - 12:30 pm

Cost: \$20; Appropriate for teachers Pre-K - Grade 5

Let us help you unleash your creativity and discover ways to intertwine the marine world into everyday classroom learning. Observe, draw, count, create and read your way around the Aquarium under the direction of our experienced education staff. From fish printing to puppetry to field guide work, you will be amazed at how many interdisciplinary activities and approaches we have developed to engage your students in science.

Embedded Task Workshops

Curriculum-embedded performance tasks are examples of teaching and learning activities that engage students in using inquiry process skills to deepen their understanding of concepts described in the science framework. Mystic Aquarium & Institute for Exploration workshops combine a discussion of inquiry and the learning cycle model, including analysis of materials and completing the tasks. Workshops also discuss how to make the tasks work in your classroom and how to weave them into your current curriculum. Workshops can be held at the Aquarium or at your school. Please contact Mary Ellen at mmateleska@mysticaquarium.org or call 860-572-5955 ext.156 for additional information.

University of Rhode Island

Free Historic South Ferry Walking Tour

URI Graduate School of Oceanography Bay Campus, Narragansett, RI

Join us with family and friends while we relive the history of a once-thriving village, which became a military outpost on Narragansett Bay. The 90-minute interpretive walk on Wednesday, July 21, 2010 will start from the Coastal Institute Visitor Center on the URI Narragansett Bay Campus at 10:30 am and is expected to conclude by noon.

Led by volunteers Wayne and Bernice Durfee of Narragansett, the program will lead participants through the historic sites at South Ferry, including the old ferry landing, the WWI military bunkers, and the campus of the URI Graduate School of Oceanography.

A second South Ferry Walking Tour will take place on Wednesday, August 4, which also will start at 10:30 am

There will be an option at the conclusion of the walking tours to view the South Ferry Church. In addition, participants can visit the Coastal Institute Bookstore, which will be open until 2 pm during the day of the walk. The South Ferry Walking Tour is open to the public. Pre-registration is not required. For information or directions, call the URI Office of Marine Programs at 401-874-6211. <http://omp.gso.uri.edu>

SENEME MEMBERSHIP APPLICATION

Name: _____

Affiliation: _____

School/Business Address: _____
Street

City, State, Zip Code

Home Address: _____
Street

City, State, Zip Code

Send SENEME mailings to: (Please Check One): Home Address Work Address

Home Phone: _____ Work Phone: _____

E-mail Address: _____

Are you a member of the SENEME Listserv? YES ___ NO ___

If NO would you like to become a member of the SENEME Listserv? YES ___ NO ___

Would you like to have your SENEME newsletter emailed to you? YES ___ NO ___

Membership Category (Please Check One):

_____ Active Member (1 Year \$15)

_____ Active Member (2 Years \$25)

_____ Active Member (3 Years \$35)

_____ Organizational Memberships (Non-Profits Only \$100)

_____ Corporate Membership (1 Year \$250)

Total Enclosed: _____

Please return form with checks payable to SENEME.

Mail to: SENEME, c/o Julie P. Ainsworth, 31 Green Springs Dr., Madison, CT 06443



The Nauplius is the newsletter of the Southeastern New England Marine Educators Association Inc. (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 Dione, 146 Essex Street, Deep River, CT 06417;
 e-mail: [dmrdione@quixnet.net](mailto:dmrione@quixnet.net). Please type articles in a Word format. If mailing media, all disks and pictures will be returned.
Submission Deadline for the Spring/Summer Issue is May 20, 2010.

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



DATES TO REMEMBER

March 25, 2010 - SENEME Board Meeting, Mystic Aquarium, Mystic, CT, 4:30 - 7:00 pm

April 30, 2010 - Long Island Sound Educators Conference, The Maritime Aquarium at Norwalk, Norwalk, CT

May 2010 - TENTATIVE - Bird Nesting, Project Oceanology, Groton, CT, Date/Time TBA

May 22, 2010 - Oceans a la Carte, URI, Narragansett, RI, 8:00 - 4:00 pm

May 27, 2010 - SENEME Event at Inner Space Center, URI-GSO, Narragansett, RI, 4:30 pm

May 27, 2010 - SENEME Board Meeting, URI, Narragansett, RI, following Inner Space Center Event

June 17, 2010 - SENEME Board Meeting, Project Oceanology, Groton, CT, 4:30 - 7:00 pm

July 19 - 23, 2010 - NMEA 2010, Gatlinburg, TN

Has your SENEME Membership Expired? Check your mailing label, and if your membership has expired or soon will, please consider renewing using the form in this newsletter. Thank you!