



Letter from the President

Dear SENE ME Members,

The weather is getting warmer, and the summer is getting closer every day. It is sure a busy time of year for all of us. We are wrapping up classes and getting ready for summer camps. Although it is a busy time of year, it is a good idea to take a few minutes to relax and read our SENE ME newsletter. The SENE ME newsletter makes a great beach read.

It is that time of year again...the National Marine Educators Conference in California. I really like their theme this year of "One World Conserving One Ocean." This theme made me think about how we can incorporate this topic into our classrooms and lessons all year round. I think it can mean different things to different educators. This theme really deals with the ocean on an international level. We are all one world, and we must conserve one ocean. I think it is so important for students and adults to know how important our oceans are. If we teach them about it, they will care, and they will teach other people to care about it. I have witnessed this with my students this year. Issues such as over-fishing, shark finning, animal entanglements, whale ship strikes, and whaling are issues that the students really do not know much about at first, but when they learn the real issues, they want to take action and do something about it. We have a big job of educating the world about the ocean. I really think we can do it. Education is so powerful, and I have seen it work.

I hope everyone going to California has a great time at the Conference and brings back a lot of new ideas to incorporate into their teaching.

Soak in the sun and enjoy your summer!! And do not forget your sunscreen!!

Jenna Carlson

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Nauplius Notations

By Donna Dione, Editor



I'm afraid my search into the history of *The Nauplius* didn't produce many results. I know Thaxter Tewksbury preceded me as Editor from around 1990 to the spring of 1999, and that at one time, the newsletter was printed at Tolland High School. And that's about it! So if anyone knows any other tidbits, I'd still like to hear from you at dmrdione@quixnet.net.

I did, however, have a grand time perusing old newsletters. Some of the articles contained information that is still pertinent today, some brought back great memories, and some were just plain hysterical. I thought it would be fun to share some of these vignettes from the past, so I've created a new column entitled "Nauplius Nostalgia" and as space allows in future issues, I will include one or two items from newsletters over 10 years old.

Whether you are a new or a seasoned member, I hope you will enjoy this "blast from the past" as much as I did!

SENEME Organizational Members

*Mystic Aquarium & Institute for
 Exploration*

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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

What's Next for the Ocean Literacy Movement?

By Diana Payne, Education Coordinator, Connecticut Sea Grant

Plans are now underway for a special issue of the NMEA journal *Current*, focusing on the ocean literacy efforts of the past several years. Included in this issue are nearly 40 pages of conceptual flow diagrams - the curricular scope and sequence developed from the Ocean Literacy Essential Principles and Fundamental Concepts (OLEPFC). Articles in development include the impact the OLEPFC has had on state and district standards across the country, textbooks, curriculum, Smithsonian's brand new Sant Ocean Hall and national programs (e.g., NOAA, NSF, COSEE), and the development of similar literacy endeavors and publications for other geoliteracy efforts (e.g., atmosphere, climate, earth science). A special feature on the teaching and learning of ocean sciences is also in preparation.

The NMEA special issue will include specific examples of how educators are making use of the OLEPFC and corresponding scope and sequence. Some have used it as a guide for developing lesson plans or entire curricular units. Others have applied ocean, coastal and aquatic content in existing science curriculum. I invite all SENEME members to share their own experiences in using the OLEPFC in both formal and informal education. In the near future, I would like to compile your experiences, along with articles that have previously appeared in this newsletter regarding ocean literacy, into a publication focused on ocean literacy efforts in Connecticut and Rhode Island. I look forward to hearing from you!

Relevant web sites noted in this article:

- Atmospheric Sciences literacy brochure: <http://www.eo.ucar.edu/asl/ASLbrochureFINAL.pdf>
- Climate literacy brochure: http://www.climate.noaa.gov/index.jsp?pg=/education/edu_index.jsp&edu=literacy
- Earth science literacy initiative: <http://www.earthscienceliteracy.org/>
- Ocean Literacy: <http://coexploration.org/oceanliteracy/>
- Ocean literacy concept flow diagrams: <http://coexploration.org/oceanliteracy/scopeandsequence/publicreview/index.html#cfds>
- Smithsonian's Sant Ocean Hall: http://ocean.si.edu/ocean_hall/index.html
- Oceans for Life (geography): <http://www.nationalgeographic.com/seas/>

ThinkFinity Literacy Network

The Verizon Foundation's Thinkfinity Literacy Network links to free, online educational resources for literacy instruction and lifelong learning for adults along with family literacy programs. The content aims to strengthen literacy development, creativity, and critical thinking skills. The website of literacy resources is meant for teachers, volunteers, adult learners, tutors, parents, and students. Visit <http://literacynetwork.verizon.org/tln/> and try a simple search on "marine".

New England Environmental Education Alliance ANNUAL CONFERENCE 2009

***"An Arena of Issues and Solutions in a Changing World"
September 25-27, Ivoryton, CT***

Featured Presenter: Circus for A Fragile Planet

Visit <http://www.neeea.org/conference.html> for more information.

NAUPLIUS NOSTALGIA

COMPILED BY DONNA DIONE, EDITOR

THIS FEATURE RESURRECTS ARTICLES FROM THE ARCHIVES OF "THE NAUPLIUS."

Editor's Note: I chose the following two articles to start this series because they really represent the title of this new column. One has to do with nauplii and the other is very nostalgic!

REPRINTED FROM *THE NAUPLIUS*, SUMMER 1993, VOLUME IV, NUMBER 2

What is a Nauplius?

Have you ever wondered what those creatures swimming across the front of your newsletter are? Or have you been strolling through town in your stylish SENEME t-shirt when someone asks what kind of "bugs" are crawling on your back?

When I found that even some of us whose profession is marine education were a bit lacking in nauplius expertise, I figured there might be many other confused souls drifting around out there searching for the answer to the timeless question, "What is a nauplius?" So off I set to find the answer for us all.

Following the advice I've given countless students, I started out by "looking it up" in Webster's Dictionary. It was there I discovered that my investigation was not going to be as easy as I thought. How do I explain to the guy on the street that the "bugs" on my back are actually "the earliest larval stage of entomostracan crustaceans and certain shrimps?" Maybe he'll have an idea that they are some sort of baby crustaceans, but most likely he'll think I like to wear shirts with some sort of foreign seafood on my back!

Basically, crustaceans are a class of mostly aquatic and gill-breathing animals that are characterized by a hard exoskeleton, a segmented body divided into head, thorax and abdomen and pairs of appendages with each segment that are highly modified for such uses as protection, feeding, walking and swimming. Entomostracans are just a sub-class of the crustaceans. Usually there is more than one nauplius stage that an organism goes through as the larva ages.

Familiar marine animals that have nauplius larva include krill, barnacles, shrimp and copepods (the most abundant zooplankton). Our "mascot" nauplius for SENEME is one of the nauplius stages for a group of the copepods.

Well, now that I am seeing nauplii on the walls, the ceiling and in my soup after reading various plankton texts, I should be able to wear my t-shirt with confidence, knowing I am a little wiser about the creatures on my back and ready to educate the next unsuspecting soul who dares to ask about those "bugs!"

By Donna Dione

REPRINTED FROM *THE NAUPLIUS*, FALL 1995, VOLUME VII, NUMBER 1

Wax down your surfboard, we're off to explore the World-Wide Web!

For those of you who have yet to link up with this most rad new form of communication, the World-Wide Web - WWW, or just the Web for short - is a system, accessed over the Internet, that allows users to follow point-and-click links leading between documents and files on computers all over the world. To get to the Web, you need a special SLIP/PPP connection (assuming you are not at a university or company that has some form of direct line to get onto the Internet). Your Internet provider should be able to help you with one of these. Web access is already available from many commercial on-line services. Once you have the right sort of connection to the outside world, you use a software application known as a browser (Netscape is the browser of choice for most of the world's users) to gain the full benefits of the Web - including graphics, sound and video.

If you already have access to the Web, you know what a candy store of useful, fun, and arcane information it is. This article by no means claims to offer an exhaustive guide to marine education resources on the Web, but rather hopes to provide a jumping off point for surfing novices, and perhaps give some new ideas to old beach bums. (*Editors Note: The article then continues with a few ideas for websites to visit which probably no longer exist.*)

Happy Surfing! Please feel free to share sites you've found for future issues of *The Nauplius*...

By Elizabeth Gibbs

Bulletin Board

University of Rhode Island

Oceanography Explorers Day Camp 2009

Two Sessions: July 13-17, and July 20-24, 2009

9:00 am to 3:00 pm

Cost: \$335.00 each session

Looking for that special summer camp experience for your children?

Youngsters who are entering grades 6-8 this fall can participate in a unique and fun opportunity to learn oceanography this summer. Each fun-filled day includes a field trip to a coastal area to learn the basics of oceanography. Children will examine marine life from microscopic to macroscopic and experience a trawl while cruising aboard the URI Research Vessel *Cap'n Bert*.

More information can be found at <http://omp.gso.uri.edu>. To register, call the Office of Marine Programs at 401-874-6500.

Camps fill quickly. Make your summer plans today!

Connecticut Sea Grant

Connecticut Sea Grant is pleased to announce the publication of the *Long Island Sound Curricular Resource Guide*. Funded by the EPA - Long Island Sound Study and edited by Diana Payne, the 148 page guide is a resource for educators teaching about Long Island Sound. The *Guide* is divided into five sections: 1) background information about Long Island Sound (LIS), 2) LIS activities, 3) LIS lesson plans, 4) science lessons at a LIS field site, and 5) resources. The lesson plans and field site section were written by CT Sea Grant LIS Mentor Teachers - K-12 teachers who currently utilize LIS as a teaching tool in their curriculum. All lessons are aligned to the CT Science Frameworks, the NY Science Standards, the National Science Education Standards, and the Ocean Literacy Essential Principles and Fundamental Concepts. To obtain your print copy, please email CT Sea Grant administrative assistant Karen Massaro at Karen.Massaro@uconn.edu. Copies of the *Guide* are free, but you will have to pay shipping unless you pick up the *Guide* at the CT Sea Grant office. Electronic copies will be available by September 2009.

ELECTION!! ELECTION!!

The SENEME Election of Officers will be on October 3, 2009 at the SENEME Annual Meeting to be held at Project Oceanology in Groton, CT. 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, 2009. 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.



2009 SENEME Fall Conference and Annual Meeting



Saturday, October 3, 2009

****Please note the date change!!****

Project Oceanology

Groton, CT

Workshops, Field Programs, Silent Auction and more!

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

*Contact Lauren Rader at 860-445-9007 for more information on Presenting or Registration.
Contact Diana Payne at diana.payne@uconn.edu if you have an item to donate to the Auction.*



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 (individuals or 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 Caroline Bertram from Scituate High School, Scituate, RI for her exhibit "Over Troubled Waters." Adam Korte from All Saints Academy in Middletown, RI won the Junior Award for his study entitled, "Beach Bacteria Levels." The Connecticut winners were Aaron Chen from EO Smith in Storrs, CT who won the Senior Award for "Effects of Water Current on Growth of Aquacultured Colonies of the Soft Coral *Anthelia glauca*," and Jacqueline Wyper and Liam Keenan from St. Michael School in Stonington, CT won the Junior Award for "A Comparative Study of the Health of Two Clam Beds Located on Long Island Sound."

Congratulations to all the winners!!

FROM THE BOARD ROOM....

The SENEME Scholarships and Awards Committee would like to announce that Becky Gladych, a graduate student at UCONN was awarded a \$500 SENEME scholarship to attend this year's NMEA Conference in California.

The SENEME Board would like to propose the following amendment to the SENEME Constitution:

Current format -

ARTICLE IV. OFFICERS

Section 3: "..... The NMEA Representative shall be elected yearly."

Change to -

Section 3: ".... The NMEA Representative shall be elected to a two (2) year term."

Article IX of the SENEME Constitution states that all proposed amendments shall be published in two consecutive issues of the newsletter before being voted on by the Board of Directors.

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 be a member of the SENEME Newsletter Listserv? 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: dmrione@quixnet.net. Please type articles in a Word format. If mailing media, all disks and pictures will be returned.
Submission Deadline for the Fall Issue is October 15, 2009.

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



DATES TO REMEMBER

June 29 - July 3, 2009 - NMEA 2009, Pacific Grove, CA

September 2009 - SENEME Board Meeting, Place, Date and Time TBA

September 25-27, 2009 - NEEEA Annual Conference, Ivoryton, CT

October 3, 2009 - SENEME Fall Conference and Annual Meeting ****Please note the date change!!**

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!