



MEMBERSHIP RENEWAL

It soon will be time to renew your MAMEA membership. The organization needs your support and you can benefit through the valuable information, networking, mini-grants and award recognition that MAMEA provides. Please spread the word about MAMEA. Get your colleagues involved and encourage them to actively participate. For membership information, go to: www.MAMEA.org or contact Jackie Takacs (410-326-7356. takacs@cbl.umes.edu).

****ANNOUNCING****

Call For Presentations

<http://www.mamea.org/2006callforpapers.html>

MAMEA Annual Conference

Culturing a Community of Science

September 30 - October 1, 2006

(See pages 3 - 4)

NorthBay Environmental Education Center

<http://www.northbayadventure.com/>

Elk Neck Peninsula in North East, MD

Captain's Quarters

Hi All! I am sure we are all glad to see lots of sunshine now that the time has changed and things are warming up. Don't forget to go outside and enjoy!

Some things to keep in mind: *Do not try to satisfy your vanity by teaching a great many things. Awaken people's curiosity. It is enough to open minds: do not overload them. Put there just a spark. If there is some good inflammable stuff, it will catch fire.*
Anatole France

*From the world's deepest ocean, from way down below,
From down in the mud where the deep-divers go,
From down in the mire and the muck and the murk
I might catch some fish who are all going "GLURK!"*
Dr. Seuss

Hope you chuckled at that one. What inspires you - is it Vicki's list of how you know you are a marine educator?

- Your car smells like old dead detritus (could it be that old horseshoe crab?).
- You have shoes that smell like your car.
- You get excited about collecting small brown round things on the beach (He He Terri).
- You go visit someone or somewhere and you always want to go see the beach (or marsh).
- You think Marsh Mud smells good.
- You know what a group of Jellyfish is called.
- You own little bottles of sand from around the world.
- You have strange suntan lines on your feet from your kayaking/mud-mucking shoes.
- You have seen a comb jelly at night (what's a comb jelly?).

Have a great Spring!

Amy Sauls, President

Make your plans to attend the

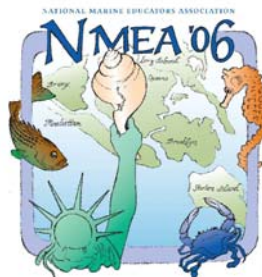
National Marine Educators Association Conference

NMEA in New York City

A City of Islands!

July 15-23, 2006

New York State Marine Education Association



This is a wonderful opportunity to visit our northeast neighbors while gaining valuable marine and aquatic education information and resources. The lodging is very affordable and the conference looks great. If you haven't been to a NMEA Conference – now's your chance!

Go to: <http://nysmea.org/con06/>



BATS, CAVEFISH, SALAMANDER: Sponsored by the Hoosier National Forest & Indiana Karst Conservancy, Cave Biota offers video clips of various cave-dwellers and interviews with scientists about cave issues and conservation. <http://www.cavebiota.com/>

EARTH: A GRAPHIC LOOK AT THE STATE OF THE WORLD: Published by the Global Education Project, this comprehensive resource summarizes the conditions of the world's ecology and humanity and how they affect each other. This is a valuable tool for anyone teaching about or striving to understand the world's complex environmental and humanitarian challenges. <http://www.theglobaleducationproject.org/index.shtml>

OCEAN IMAGE RESOURCE FOR TEACHERS: Marine Photobank is a free resource of ocean imagery that highlights pressing ocean issues and includes accompanying downloadable photo stories. Some subjects covered are marine pollution and trash, fishing methods, and reefs in peril and coral bleaching. <http://www.marinephotobank.org>

WHAT BIRD: This is an excellent online, identification guide for birds of North America. Use the visual search engine to identify birds, create your own bird field guides, and consult with an expert. <http://www.whatbird.com/>

EE RESOURCE GUIDES ON CD: The Air & Waste Management Association (A&WMA) has introduced its award-winning Environmental Education Resource Guides (EERGs) on CD. The EERGs provide teachers with background information, fact sheets, glossaries, and 50 lesson plans for grades K - 5 on several air and water pollution and protection topics. <http://eelink.net/cgi-bin/ee-link/newclick/448262>

GEOEC LESSON PLANS: Global, Environmental, and Outdoor Education Council (GEOEC) Web site offers downloadable, free lesson plans (Grades 1-9) designed to help teachers integrate environmental themes into their curriculum. <http://eelink.net/cgi-bin/ee-link/newclick/448263>

CLIMATE CHANGE – WILDLIFE AND WILDLANDS: This teaching toolkit was produced by the EPA in partnership with the National Park Service. Most of the toolkit components can be downloaded from the website. <http://yosemite.epa.gov/OAR/globalwarming.nsf/content/ResourceCenterPublicationsOutreachMaterialORWKit.html>

STEAL THIS PICTURE: This is an open-source photo archive by Michael L. Baird. You can use any picture for personal or non-commercial purpose, with attribution. Pictures include mostly birds, along with some marine mammals and more. While not yet extensive, check it out; you may find just the picture you're looking for. <http://www.stealththispicture.com/>

ENVIRONMENTAL JEOPARDY: The fourth edition of Environmental Jeopardy is currently available from the Teacher's Corner of the Earth Day Network website. This edition's theme is "A Changing Climate" and focuses on global warming issues. Titles include: Causes of Climate Change, Climate Change History, The Outlook: Life and Land, Solutions to Climate Change, and What You Can Do. Environmental Jeopardy has two sets of questions, one for primary school and one for secondary school, in-depth information on each topic and resources to help your students find out more about the issues covered in this edition. <http://www.earthday.net/involved/teachers/editTeacher.aspx>

FISHERIES LEARNING ON THE WEB: FLOW is a comprehensive curriculum about the Great Lakes ecosystem, geared toward upper elementary and middle school. Lessons also apply to other aquatic systems and are aligned with science and social studies standards. <http://eelink.net/cgi-bin/ee-link/newclick/232590>

WORLD OCEAN'S DAY - June 8, 2006: World Ocean's Day is held annually on June 8th in honor of our planet's most diverse and threatened ecosystem. Created in 1992 at the Earth Summit in Rio de Janeiro, it is hoped that World Ocean's Day will help raise awareness to over fishing, pollution, and other detriments to ocean life. <http://www.defyingoceansend.org/award.html>

The *Masthead* is the official newsletter of the Mid-Atlantic Marine Educators Association (MAMEA) and produced quarterly. The Association is an affiliate of the National Marine Educators Association and dedicated to the advancement of marine and freshwater education curricula, programs, and events that foster effective instruction, learning and environmental stewardship. Annual dues are \$10.00. For membership application, send your name, institutional affiliation, address, telephone/Fax numbers and e-mail address with payment to: Jackie Tacaks, PO Box 38, Solomons, MD 20688. For more information, contact any Board member.



Call for Presentations
Mid-Atlantic Marine Education Association
Culturing a Community of Science



Submission Deadline: August 18th, 2006

Marine Science Education: An Annual Professional Development Conference
September 29 – October 1, 2006, at NorthBay, North East, Maryland

(Please type or print)

Name: _____

Professional Title: _____

School/Institution: _____

Mailing Address: _____

Phone: (work) _____ **(home):** _____ **E-mail:** _____

Session Type (check one) Hands-on workshop Research/Information Demonstration

Session Length (check one) 45 minutes 90 minutes

Location preference (check one) Outside Inside

Presentation Title: _____

Presentation Description (limit to 40 words for the Conference Program):

Grade level: _____ **Content area:** _____

Please describe any special assistance you may need. _____

Preferred audience size:

- Max 10
- 10-20
- 30 or more

AV Needs:

I will need Internet access for my presentation.

Note: Presenters are responsible for their own AV equipment.
None will be available at the Conference site.

Email, Fax or Mail to:

MAMEA, 2006 Presentations
 c/o Barry Fox
 Box 9081, VA State University
 Petersburg, VA 23806
 FAX 804-524-5057
 Email: bfox@vsu.edu

Questions? Contact:

Vicki Clark, vclark@vims.edu or 804-684-7169
 Barry Fox, bfox@vsu.edu or 804-524-5057
 Adam Frederick, frederic@mdsg.umd.edu or 410-234-8850

(Go to: <http://www.mamea.org/2006callforpapers.html> for on-line submission.)

(Please type or print)

Name: _____

Presentation title: _____

Objectives:

Session content and activities (<250 words):

Please list additional topic-related educational resources that you recommend for workshop participants.
(Print, Web, AV, etc.)

MAMEA Annual Conference Highlights

Culturing a Community of Science

September 30 - October 1, 2006

NorthBay Environmental Education Center, Elk Neck Peninsula in North East, MD

<http://www.northbayadventure.com/>

Thursday September 28th

Board meeting and dinner in North East, MD

Friday September 29th

Registration
Reception at NorthBay
Silent Auction
Welcome by Pres/Pres Elect
Welcome by NorthBay Director and Dean of Education
Guest Speaker

Saturday September 30th

Registration
Concurrent sessions
Guest speaker
Live auction
Dinner
Live Band

Sunday October 1st

New Board Breakfast
Field Trips at NorthBay facility

Specific Questions? Please Contact:

J. Adam Frederick, MD Sea Grant Extension Program - frederic@mdsg.umd.edu

Jackie Takacs, MD Sea Grant Extension Program - takacs@cbl.umces.edu

CALLING FOR MAMEA AWARDS NOMINATIONS

Now is the time to be submitting your nominations for MAMEA awards for **Classroom Teacher** and **Nontraditional Educator**. The process is easy and can all be done on-line. Just visit <http://www.mamea.org/> and follow the link to "Awards". A suggestion: Print out the award form on which you can collect the info requested; then return to the web page and complete the application so there is nothing to mail. Your special marine educators deserve recognition... you can make it happen. It would be best NOT to wait till summer or the beginning of next school year... JUST DO IT NOW! If you need more detail, just ask. THANKS. Any questions, contact John Chubb (Awards Chair) at jchubb@verizon.net.

Around the Association

North Carolina (Ruth Schneider)

North Carolina Maritime Museum

The museum is hosting the Pepsi Americas' Sail event in Beaufort and Morehead City on June 30 - July 5, bringing the race of tall ships to eastern North Carolina. This exciting tall ship festival includes a parade of sail, an ocean sail race, a 4th of July parade, fireworks, ship tours, music and arts, an exhibit of tall ship paintings, and maritime programs. Tickets are on sale online at www.pepsiamericassail.com or 800-514-3849. For information, contact 252-728-7471, 800-637-8158 or email: info@pepsiamericassail.com.

Museum youth programs include the *Junior Sailing Program* that uses the fun of sailing to teach seamanship to children. *Summer Science School for Children* offers day classes in pirate life, boat model making, seashore life, fish and fishing, nature at night, saltwater science, coastal trails and kayaking. Overnight classes include *Cape Lookout for Families and Friends* and *Surfing for Girls*. Adults can also participate in sailing and kayaking

North Carolina Aquariums

The North Carolina Aquarium on Roanoke Island will unveil a new exhibit this summer. An interactive exhibit, *Aquarium Confidential, A Look Behind the Scenes*, will enable visitors to take glimpse at what happens on the other side of the exhibit walls. Selected species will showcase the Aquarium's propagation program. Learn about the Aquarium's involvement in conservation and research and build your own fish tank. Chat with an aquarist about animal care and find out how they spend their workday. Find out much more in this exciting new exhibit.

With the North Carolina Aquarium at Pine Knoll Shores re-opening on May 19th, there is a lot of excitement in the air! In addition to a waterfall, river otters, two touch tanks, and sharks, there will many activities to make your visit most memorable. You will have the opportunity to see animal feedings, dive presentations, and live animal programs offered twice daily. Join us for the fun-filled activities in our classrooms, watch a puppet show, or come test your knowledge to become our daily Aquarium Jeopardy champion. If you want to enhance your experience, join in on the fun of one of our Special Activities programs. You

classes. A weekend kayaking trip for experienced paddlers is planned for June 2 - 4 with the Cape Lookout Studies Program. A Learn-to-Kayak program designed just for educators is scheduled for August 15. Contact the museum for applications.

The museum also offers environmental experiences to barrier and estuarine islands, on-board collecting cruises, and seining to sample marine life. These programs may be applicable for the NC Environmental Education Certification or may be arranged for teacher or student groups or clubs. Teachers must register groups to tour the museum. Grade-based Sea Hunt and Treasure Hunt worksheets are an integral part of the tours. Contact the museum for details (maritime@ncmail.net, phone: 252-728-7317) or view the current Calendar of Events and Education Services Guide at www.ncmm-friends.org or www.ah.dcr.state.nc.us/sections/maritime.

can learn to snorkel, paddle, crab and clam, or take a behind the scenes look at how our aquarium works. For your dining pleasure, we are offering *Breakfast with the Rays* and *Dinner with the Critters*. We will also have birthday parties, sleepovers and outreach programs available. For more information, visit www.ncaquariums.com.

The North Carolina Aquarium at Fort Fisher will offer the following six teacher workshops that meet EENC I, II, III certification. Formal and informal teachers and educators are welcome to register for day workshops or for the whole week. Activities can be adjusted for most grade levels and are free. Registration is required by July 14. If you have questions, please contact Peggy Sloan at peggy.sloan@ncmail.net or call 910-458-8259, ext. 230. To register, contact Danielle Wallace at 910-458-7468, Danielle.Wallace@ncmail.net.

- Monday, July 24 (9am-4pm) Incorporating Environmental Education into the Humanities
Environmental Education isn't just for science classes! Workshop sessions focus on creating your own journal, papermaking, creative writing, drawing from nature,

storytelling, and bringing life into literature. Come join the aquarium for a day filled with fun ideas to take back to your classroom! Maximum: 25

- Tuesday, July 25 (9 am-4 pm) How to get the most out of your Aquarium visit

This workshop is designed to help teachers get the most out of their Aquarium visit. We'll introduce pre/post activities and demonstrate activities designed for students while visiting the Aquarium. Participants receive a binder of classroom and on-site activities, including program and field trip registration information. Maximum: 25

- Wednesday, July 26 (9 am-4 pm) Project WET
Learn new ways to introduce students to the wonders and importance of water. Project WET is a nationally recognized water education curriculum for K-12. During this workshop participants will experiment with some of the lessons and gain content knowledge of water properties, cycles, uses, and conservation. Maximum: 25

- Thursday, July 27 (8 am- 12 noon) Hodge Podge
Join the aquarium's horticulturist for a variety of activities. The four-part session meets Level III EENC requirements.

- Part 1 Native Plants - Identify native dune, marsh, and maritime plants along the aquarium's nature trails using simple keys and learn ecological and cultural information about our native coastal plants.

- Part 2 Dune Restoration - Learn how a protective sand dune network was created in front of the aquarium property on the Fort Fisher State Recreation Area beach.

- Part 3 Ft. Fisher Greenhouse – Observe our new horticultural operations center and learn about propagating plants, managing pests, fertilizing responsibly, and choosing the right plants for difficult growing conditions, such as ours!

NC Estuarine Research Reserve

A 15 hour Coastal Explorations Workshop will be held on the Outer Banks June 13 – 14. Participants will learn about North Carolina's 2 million acres of estuaries and their importance in our seafood industry; general ecological concepts; and impacts on Coastal habitats. A field visit to the Currituck Banks site of the NC National Estuarine Research Reserve will be part of the workshop. This workshop meets the Criteria I requirement and

Chesapeake Bay National Estuarine Research Reserve in Virginia - Teacher Workshops

- Estuarine Aquarium Keeping in the Classroom:
July 18 and 19.

Teachers will develop their 'wet thumb' by learning the art and science of keeping Chesapeake Bay species in classroom aquaria, with an emphasis on raising juvenile blue crabs and summer flounder. Topics include dissolved oxygen, ammonia waste, temperature, pH, salinity, biological and mechanical filtration, aquarium size, gravel, aeration, safety, tank cleaning, maintenance and trouble-shooting. We will also get a behind the scenes tour of the Virginia Sea Grant fish aquaculture facility and

- Part 4 Fish Culturing - Carolina Pygmy Sunfish, a state threatened species, is being kept in small tanks naturally filtered by vegetation where they have been reproducing well each spring. See these and other species of sunfish which make-up part of the aquarium's captive propagation program. Maximum number: 15

- Thursday, July 27 (1 pm-4 pm) Turtle Trails

This is a Sea Turtle teacher workshop focusing on the Aquarium's satellite tracking project, *Turtle Trails*. We'll use hands-on activities suitable for the classroom to explore how hatchling sea turtles emerge from the nest, where they go, how they navigate, and why some sea turtles become stranded. Maximum: 25

- Friday, July 28 (8:30 am – 3:30 pm) NOAA Ocean Exploration Professional Development Workshop, Grades 6-12

Bring the excitement of current ocean science discoveries to your students using the Ocean Exploration curriculum and CD-ROM's of the Ocean Explorer Web site (www.oceanexplorer.noaa.gov). Join Cindy Renkas, NOAA Ocean Exploration Education Specialist, in inquiry and standards-based activities tied directly to ocean expeditions. Participants will receive a copy of the curriculum and the CD-ROM's. Maximum: 25

Check out *Estuarylive* at www.estuarylive.org. This year's event will have some fun sessions on topics including snails, Lionfish (invasive species), horseshoe crabs, fossils and Jeff Warren discussing coastal and estuarine geology. Go to the Web page for a complete description of all sessions. Anyone is invited to participate, but classes/teachers are encouraged to register for the live events. This program is free as well as interactive.

provides teacher renewal credits. Contact Amy Sauls to register or more information at NC National Estuarine Research Reserve Education Office, Beaufort NC 28516. www.ncnerr.org

In addition, summer public field trips to the Rachel Carson Reserve in Beaufort are conducted Tuesdays and Thursdays. Contact the Reserve at 252 728-2170.

Virginia (Jane Brown)

the VIMS aquarium. Participants will receive the 20-page CBNERRVA *Estuarine Aquarium Keeping for Beginners* manual. Day 2 (optional) - We will spend the day collecting from different shallow water habitats around Gloucester Point, learning about the animals and the ecology of the shallow water habitat.

- Water Quality Workshop for Virginia Educators:
July 25-26.

This workshop is designed to help teachers to learn more about water quality, how to access water quality monitoring data from throughout the Chesapeake Bay and the nation and use curricular activities from the CBNERRVA *York River Water Quality Curriculum*. The

first day of the workshop will be training in water quality parameters and measurement and use of the *York River Water Quality Curriculum* and on-line data resources. The second day (optional) will be in the field investigating water quality first-hand during a canoe trip on Taskinas Creek in York River State Park.

- **York River Habitats:** August 9-10.

Learn more about York River estuarine habitats, the aquatic animals that live here and York River water quality. We will canoe, explore vanishing islands, catch aquatic animals from sand flat, salt marsh and aquatic vegetation habitats. We'll also perform water quality monitoring tests, cool off in the beautiful York River and learn about schoolyard habitats, oyster restoration and groundwater. Teachers from any grade level and informal educators are encouraged to register. Participants can take one, or both days of the workshop.

These workshops are free thanks to the Chesapeake Bay National Estuarine Research Reserve in Virginia (CBNERRVA). More information and full itineraries can be found at www.vims.edu/cbnerr/. Click the Education and Outreach tab to Teacher Training Workshops, or contact Sarah McGuire (mcguire@vims.edu, 804-684-7878). Please send name, home address, home phone, summer email address, school name and location, grade and subject taught and if you plan to take one (which day) or both days of the workshop.

Oysters in the Chesapeake Bay Teacher Professional Development Institute & Oyster Restoration Project
June 26 - June 28, 2006

Teachers from the Tidewater Virginia area are invited to participate in a three-day professional development institute and yearlong oyster restoration project that concludes with a meaningful Bay experience for your students.

VIMS researchers and educators are teaming up with the Tidewater Oyster Gardeners Association (TOGA) to offer this interactive class on oyster biology, ecology and restoration in conjunction with the Master Oyster Gardeners instructional course. Teachers take home information, multimedia resources, classroom activities, as well as the tools and knowledge to conduct an oyster grow-out project with their students. In addition, teachers interact with TOGA members, creating a support network for the oyster restoration project. At the end of the restoration project, teachers and their students will go on a meaningful Bay experience to transplant their oysters to the Bay. A full course agenda can be found at:

<http://www.vims.edu/adv/ed/oyster2006agenda.pdf>

Registration is limited to 15 classroom teachers. The registration fee is \$15 and covers all institute, restoration project and field experience expenses. Priority will be given to teachers who have not participated in this project before. For more information, go to:

<http://www.vims.edu/adv/ed/oyster2006flyer.pdf> or contact Lisa Ayers Lawrence at ayers@vims.edu or 804-684-7608.

Virginia 4-H Marine/Aquatic Science Leadership Conference

Jamestown 4-H Educational Center, August 20 – 25
Designed as an environmental leadership training program for youth 14 – 19, participants will gain skills in water resources and water quality monitoring, aquarium keeping, and other topics. Participants will visit Back Bay NWR, The Mariners' Museum and share their skills and knowledge with visiting junior 4-H youth on the final day of the conference. Interested teens and adult volunteers are welcome. Contact you local Extension 4-H Agent or Barry Fox (804-524-5848, bfox@vsu.edu) or go to: <http://www.ext.vt.edu/resources/4h/events/>.

Florida Field Trip Opportunity

JoAnne Powell and Terry Kirby Hathaway are proposing a workshop/field trip to the 11th annual Sea-Bean Symposium, October 13-14, 2006 in Cocoa Beach, FL. This is an inquiry to see how many people would be interested in accompanying them. Everyone would be responsible for their own airline tickets and meals. A transportation, lodging, and instruction package is being developed. This workshop qualifies for NC Environmental Education Certification credit. Please send an email by the end of June indicating your interest in this learning opportunity! (Terry - terrikh@csi.northcarolina.edu) The following is a very tentative schedule of events.

Thursday, October 12

Afternoon – Arrive at Cocoa Beach, depart for Cape Canaveral & Merritt Island Nat'l Wildlife Refuges
Evening – Dinner, sea-bean identification and group plans for next day

Friday, October 13

Morning – Beach walk, Sea-bean exhibits, Sebastian Inlet State Park
Afternoon – Symposium lectures, free time
Evening - Keynote address: Alan Rammer, Washington Fish & Wildlife, "West Coast Beachcombing: A to Z", sea-bean identification and group plans for next day

Saturday, October 14

Morning - Bean-A-Thon on your own, collecting for competition, guest lectures
Afternoon - Presentation at library, Odd-Bean contest judging
Evening - Bean-A-Thon and contest awards, raffle winner chosen, Capnote address, group discussion

Sunday, October 15

Morning – Departure

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Be sure to:

- Submit an article with pictures to the Masthead (bfox@vsu.edu).
- Apply for a MAMEA mini-grant (www.mamea.org/minigrant.html).
- Nominate someone for a MAMEA award (www.mamea.org/awards.html).
- Apply for the Paul Standish Scholarship (<http://www.mamea.org/>)