From the Captain’s Quarters

Greetings MAMEA Family,

Happy September! I hope that everyone had a great summer and is looking forward to the fall. Fall for me always signifies a slower time, if that can be said, as my crazy summer of camps, teacher workshops, and a crazy busy building are coming to an end and it is the calm before the storm of the school year. I think most informal educators can relate! Our classroom teachers are just preparing for the beginning of their busy season, as they go back to their classrooms, seeing new students and hopefully coming with a ton of new ideas to use in their lessons from teacher workshops, conferences, and colleagues.

While I was not able to attend the NMEA conference in Long Beach, CA this summer, I have heard from several MAMEA members that it was a great one! I am sad to have missed out on the stunning views, haunted ship and plethora of amazing sessions given by both our members and others from our sister chapters. I know that MAMEA always rolls deep at the NMEA conference and this year was no different.

Fall is my favorite time of year, leaves are changing, temperatures are dropping, pumpkin everything, and of course, we meet again for our annual conference. I sincerely hope that you will consider joining us in Portsmouth, Virginia for what is always one of my favorite weekends of the year. This event is consistently one of the best networking and professional development opportunities available to marine and environmental educators in the region. We have a great membership and the conference always reflects that. Please plan to be a part of the biggest and best MAMEA event of the year.

This year has had a lot of ups and downs for me, but I am truly proud to be a member of MAMEA and to have served this last year as President. It has been a great experience and honor to serve as this chapter’s President, and I look forward to staying involved and continuing to meet new colleagues, engage in new project collaborations, work on new programming, share ideas and to have fun and laugh with everyone.

See you in November!

Lauren
REGISTRATION NOW OPEN!
mamea.org

MAMEA 2018 Annual Conference
Renaissance Hotel Portsmouth-Norfolk
November 9-11, 2018  Portsmouth, Virginia

Call for Presentations Closes September 21st
Early Bird Registration Deadline is October 5th
Registration Closes October 31st
Register NOW for MAMEA 2018!

Carrie Carlin
MAMEA President-Elect & Conference Chair

I hope everyone had a great summer and now looking forward to our annual MAMEA conference this fall. The conference will be November 9-11th at the Renaissance Portsmouth- Norfolk Waterfront Hotel. The hotel sits on the Elizabeth River and has a newly renovated boardwalk that takes you to Historic Portsmouth. Our kickoff event takes place Friday from 6-9 pm at Nauticus, includes a speaker and reception. We highly suggest using the water taxis located steps from the hotel to travel to Nauticus. Saturday’s festivities are packed with concurrent sessions, speakers, the annual business meeting and our favorite auction. Field trips are being finalized at this time and when we have more information that information will be updated to the conference website. Registration is now available at the MAMEA website (www.mamea.org). Early Bird Registration ($165) is open until October 5th and Regular Registration ($180) will be open until October 31st. If you have any questions regarding the conference please email me at ccarlin@hanover.k12.va.us. We cannot wait to see you in November.

Last Call for MAMEA 2018 Presenters

Sarah McGuire Nuss
Conference Committee

Have a new lesson plan or resource that you’d like to share with MAMEA members? Want to showcase a cool project recently completed? There is still time to submit a proposal to present at this year’s MAMEA annual conference. Conference sessions will be 45 minutes, and should be on a topic that will be helpful for all of MAMEA to learn about! Proposals are due September 21st, and you will be notified if your session has been selected prior to the close of early bird registration. Submit your proposal ASAP at the link below!

https://docs.google.com/forms/d/e/1FAIpQLSfDkzq3qjO8i9_FqjQpFgy7Szl0ffkh-YhMZSgVr2yb1uiytA/viewform?usp=sf_link

For more about the conference, please visit http://www.mamea.org/conf.html.

Thanks! And I hope to see you all in Portsmouth in November!

Your Amazon Purchases Can Help Support MAMEA!

Did you know that your everyday Amazon purchases can help support MAMEA? When customers shop on AmazonSmile, the AmazonSmile Foundation donates 0.5% of the price of eligible purchases to the charitable organization(s) selected by customers. To have your purchases support MAMEA, simply visit smile.amazon.com and select “mid-atlantic marine education assn”

As always, we appreciate your support!
A Hauntingly Good Time in Long Beach

Kathy Fuller
MAMEA Chapter Representative to NMEA

With a conference on a century old ship that is twice the size of the Titanic, you never knew what adventure was next. The conference unofficially opened with an opportunity to see the natural phenomenon of the grunion run into the wee hours of the night. While only a few fish came up on the beach, we also had an opportunity to hatch grunion eggs, put our toes in the ocean, and learn about the lifecycle of the fish. Most conference events occurred aboard the Queen Mary, so you never knew who or what you could run into in the hallways. Imagine historical luxury ballrooms that were also once packed for WWII troop transport. The spirits of past ocean liner guests, crew, and even Winston Churchill still frequent the ship. Many conference goers had paranormal experiences while on board. Add an immense list of concurrent sessions, engaging plenary speakers, a visit to the Aquarium on the Pacific, a menu of local field trips, and all had a great time in Southern California.

MAMEA was well represented at NMEA 2018 in Long Beach, California. MAMEA members presented 10 concurrent sessions on topics from project based learning to translating science research and beyond. We thanked two MAMEA members, Tami Lunsford and David Christopher, for their service as they completed their elected terms on the NMEA Board. MAMEA is still represented on the NMEA Board with Jackie Takacs as NMEA (and MAMEA) Treasurer and Kathy Fuller as Chapter Representative.

The NMEA 2019 conference committee is already well on their way in planning the conference for next summer. Mark your calendars now for NMEA 2019: Turning the Tide – Learning from Yesterday, Adapting for Tomorrow from July 22-25, 2019 in Durham, New Hampshire.
MAMEA Chapter Meeting at NMEA

Submitted by Carol Hopper Brill, MAMEA Secretary

MAMEA members made the cross-country trip to attend the 2018 NMEA Conference held aboard the Queen Mary in Long Beach, CA. Over 20 folks, nearly all of them long-time members, attended the annual Chapter Meeting! What a dedicated crew!

MAMEA Archives Chair David Christopher and Membership Chair Lisa Lawrence welcomed the crowd and conducted the meeting. After current Board Members re-introduced themselves, the 2018/19 Board election results were announced. These new Board members will begin their terms of office at the MAMEA Annual Member Business Meeting, scheduled for November 10, during the upcoming MAMEA Conference.

Plans for MAMEA’s 2018 Fall Conference were shared. President-Elect Carrie Carlin and her Conference Committee have been lining up exciting activities for the November 9-11 event in Portsmouth, VA. If you want to help with the Conference, contact Carrie at ccarlin@hcps.us.

Other updates presented during the Chapter Meeting included:
• Reminders for application deadlines for MAMEA programs, including: Fall Conference, as well as Expanding Audience, scholarships; Educational Project Grants; and MAMEA Awards.
• The state of State mini-conference activities (3 in August, 1 to be scheduled). These events organized by MAMEA State Reps are open to all MAMEA members, regardless of their state of residence. Watch for announcements via e-mail or visit the MAMEA website for the latest news.
• MAMEA shopping options... You can benefit MAMEA by ordering from the MAMEA Store on Zazzle or from Amazon Smile. MAMEA has accounts with both. For details, see Spring and Summer 2018 Masthead issues.
• A call for MAMEA social media news. Kristen Sharpe could use your your news, announcements or help! Contact her at knsharpe@vims.edu.
• An announcement from NMEA – Chapter members should expect a survey from NMEA.

MAMEAns are always active at NMEA Conferences, including the 2018 gathering aboard the Queen Mary in Long Beach, CA! Members attended board and committee meetings, gave presentations, manned exhibits, and enjoyed events and fieldtrips. Here they are gathered for the MAMEA Chapter meeting on July 18. Photo by S. Richards.
2018 Osprey Banding Experience
Band Number 1088-15210

Submitted by Kathy Fuller, NMEA Chapter Representative

As the pontoon boat approached the nest platform in the Patuxent River we all stood up and peeked in the nest. Two osprey chicks were lying down in the nest trying to do their best impression of a stick to camouflage with their nest. These two chicks had made it through the cold, spring rains and were now 3.5 weeks old. Greg Kearns, Patuxent River Park Naturalist and Osprey Researcher, carefully removed each chick from the nest and showed the group how to hold the chicks. At 3.5 weeks the chicks were not strong enough to use their sharp talons or hooked beak, so the chicks sat quietly in our cradled hands. Each participant took turns holding and examining the two chicks.

Even as young chicks it was obvious that these birds were highly adapted for survival. Each chick had a large bulge at the bottom of their neck, a full crop, proving their parents have been successful in feeding their growing family. After our examination, and a ton of photo opportunities, it was time to band the chicks. The chicks in the area were late to hatch this year, so we worried that they may not be big enough to band. Fortunately the chick’s ankle was big enough to hold the metal bird band. As the chick sat quietly in the hands of one of the MAMEA members, Greg extended one leg of the chick and carefully wrapped and crimped the metal band on the chick’s ankle. Now it was time to record the banding for reporting. This band number was 1088-15210, banded on June 16, 2018 on the “original tower” location. Weighing in at 1,100g, the chick was weighed by placing the chick in a re-used plastic shopping bag that was hung on a scale. After we finished recording all of the data from this chick we repeated the process with the other chick before placing the chicks back in their nest. The data will be reported to the USGS Bird Banding Lab so if the birds are later recovered, the age and movement of the bird can be determined. Greg shared stories of recovered bands of birds he had tagged with one bird that was recovered in the Amazon in Brazil and a female osprey that he first banded when she was a chick twenty-one years ago that he recaptured as a nesting adult on the Patuxent. The information we collected was useful in learning more about the life of an osprey, and we all were inspired by Greg’s words to do our part to help conserve these amazing animals.
Delaware Rep Report
Christopher Petrone
Delaware State Representative

Upcoming Events

Saturday, September 22, 2018
National Estuaries Day

Get your feet wet with the Delaware National Estuarine Research Reserve’s marsh walk and boat trip. Explore how the Reserve studies the bay. Enjoy planting trees at the Reserve, or join a Reserve Naturalist for a hike. Finally, you can bond with friends and family around their campfire! Two locations for your nature-enjoyment needs. https://dnrec.alpha.delaware.gov/coastal-programs/education-outreach/for-kids-and-families/

Saturday, September 29, 2018
James Farm Preserve Feature Wall at Gallery One

Join the Delaware Center for the Inland Bays at Gallery One from 5:00- 7:00 pm! This special exhibition of art that was created by the artists of Gallery One and inspired by the James Farm Ecological Preserve: an oasis of natural land that sits on the southern end of Indian River Bay in Ocean View. A special Theme Wall will be dedicated to the James Farm with sales from that wall supporting improvements that allow the Preserve to better educate and accommodate future visitors. RSVP required. Visit www.inlandbays.org for more information.

Sunday, October 7, 2018
41st Annual Coast Day

Where: University of Delaware Hugh R. Sharp Campus, Lewes, DE
Coast Day highlights how UD scientists, staff, and students are improving understanding of ocean environments and serving coastal communities. Coast Day attendees can interact with researchers, tour ships, try hands-on activities, and attend presentations on a range of topics.

Family-friendly activities include an event-wide treasure hunt for answers to questions about the environment and Coast Day exhibits. Children can meet sea-dwelling animals such as horseshoe crabs and dogfish sharks at the critter touch tanks. Everyone can enjoy live music, vendor displays, and seafood favorites showcased by local chefs at the Crab Cake Cook-Off and the Seafood Chowder Challenge.

Cost: Free
www.decoastday.org

Saturday, October 20, 2018
Blackbird Creek Fall Festival

A celebration that started in 2007 and features traditional crafts and demonstrations, hands-on learning, lively music, kids activities, and lots of fun along the beautiful Blackbird Creek in Townsend, DE!

Cost: Free
https://dnrec.alpha.delaware.gov/events/129/blackbird-creek-fall-festival/
Delaware Mini-Conference: Marine Debris for Makers

Submitted by Christopher Petrone, Delaware State Representative

On Wednesday, August 1, MAMEA Delaware Rep, Chris Petrone from Delaware Sea Grant and University of Delaware College of Earth, Ocean, and Environment, hosted a mini-conference which drew 13 participants (10 new Delaware members!) and two news reporters.

The day began with two science content presentations that looked at the impacts of plastic on the micro- and macroscopic marine environment. Dr. Jon Cohen from UD’s College of Earth, Ocean, and Environment presented some of his marine microplastics research, as it applies to zooplankton. Dr. Cohen touched on some of the social science issues associated with plastics in the ocean, and encouraged workshop participants to look “beyond the straw,” and evaluate waste management both here in the United States and globally, to help students understand where problem areas for plastics are really located. Next, Suzanne Thurman, Director of the Marine Education, Research, and Rehabilitation (MERR) Institute, discussed plastics discovered in her necropsies of marine mammals that wash up in Delaware.

In between sessions, participants worked through hands-on, minds-on activities that investigated decomposition times of common household items (from the “Talking Trash and Taking Action” curriculum), isolated microbeads from facial scrub—which is no longer commercially available thanks to federal legislation—and the buoyancy of seven types of plastic found around the house.

Participants then traveled to nearby Cape Henlopen State Park, where we systematically collected debris from the drive-on ocean beach, and collected data related to the debris. The debris was brought back to the classroom, where it was combined with debris from past clean-up activities, for the afternoon’s art/engineering challenge.

After lunch, participants received introductory information about developing a school makerspace, and toured the UD Robotic Discovery Laboratories (RDL). The RDL features 3D printers and machining area, where students and faculty develop autonomous sampling systems and ROV/AUV accessories to help collect environmental data.

Participants then heard from Lisa Tossey (MAMEA President-Elect), who works at the crossroads of environmental education and art, about how others have used marine debris to create amazing works of art. In the final 60 minutes of the workshop, teams worked through either an art or engineering challenge related to pollution, using marine debris and other items that would normally end up in the landfill.

We were fortunate to have two local TV reporters join us for part of the day, so our work—and message—reached many people on the Delmarva Peninsula. These reports can be found at and http://www.wboc.com/clip/14532649/teachers-take-part-in-cape-henlopen-beach-clean-up and http://www.wmdt.com/news/delaware/university-of-delaware-s-marine-workshop-gives-teachers-a-hands-on-experience-in-the-summer/776148097.

Thanks to MAMEA for the mini-conference support, to Jody and Steve Dengler of Sun Otter Tours for the use of their mini-bus, and to Delaware Sea Grant’s Lisa Dorey for her administrative support. Please feel free to contact Chris Petrone (petrone@udel.edu) for information related to this mini-conference, including the hands-on activities!
Photos by Lisa Tossey. Clockwise from top:
Marine Debris for Makers participants gather in front of the Sun Otter Tours mini-bus for a group shot.
Participants sort their collected debris according what had obviously been in the water at some point, and what had not.
A marine debris squid created by Vinny Colombo, teacher at Sussex Tech High School (Delaware).
A “flip flop fish” created by Sarah Betlejewski, teacher at Millsboro Middle School (Delaware), during the art/engineering challenge portion of the workshop.
September Stream Science Classes at Audubon Naturalist Society

Introduction to Stream Science Series
Classroom Session
Healthy Stream Biology
Section D: Thursday, September 20 (7-9:30 pm)
Woodend Sanctuary, Chevy Chase, MD

In the classroom, we will explore how “benthic macroinvertebrates” — organisms that live in the bottom of our streams — help us assess a stream’s health. We will learn how to identify these organisms to the taxonomic level of order through a PowerPoint presentation and by examining preserved specimens in a hands-on session with microscopes.

Field Workshop
Section C: Saturday, September 22 (9:30 am – 12 pm)
Ten Mile Creek, Boyds, MD

In the field workshop, we will visit a healthy stream to practice monitoring techniques and to collect and identify the benthic macroinvertebrates we find.

Learn more and register at anshome.org/stream-science-classes/.
Registration required. The classes are open to anyone 10 years and older. Prices for all classes are $15 Members/$25 non-members. Learn more and register at anshome.org/stream-science-classes/. Contact cathy.wiss@anshome.org with questions.

Mermaid’s Kiss Oyster Fest
Date: September 20, 2018
Time: 6:00 pm - 9:00 pm
Location: Baltimore Museum of Industry, Baltimore, MD, USA

Get ready for an experience you won’t soon forget at Mermaid’s Kiss Oyster Fest on Thursday, Sept. 20 in Baltimore! Whether you like them raw, fried, baked or boozy, we’ve got oysters from all across the Chesapeake Bay region served any way you want them!

Thursday, September 20, 2018
6-9 p.m.
Baltimore Museum of Industry
1415 Key Highway Baltimore, MD 21230

Proceeds from Mermaid’s Kiss go right back into the Bay, supporting the Oyster Recovery Partnership’s mission to build a healthy and sustainable native oyster population.
In Defense of Water 2018

Date: October 4, 2018
Time: 6:30 pm - 9:00 pm
Location: Audubon Naturalist Society, Jones Mill Road, Chevy Chase, MD, USA

Waterkeepers Chesapeake invites you to our 2nd annual In Defense of Water fundraiser. We’ll be gathering the evening of October 4, 2018, 6:30 - 9:00pm at the Audubon Naturalist Society’s Woodend Sanctuary in Chevy Chase, Maryland for an evening of celebrating our clean water successes and raising funds for and awareness of our work to make our waters drinkable, swimmable and fishable for all. Sponsors and guests will enjoy fresh, local food from La Prima Catering and beer from Sweetwater Brewing, mingle with Waterkeepers, groove to the Wendy Steve Jazz Band and bid on exciting silent auction items.

Fort McHenry Field Day

Date: November 3, 2018
Time: 10:00 am - 1:00 pm
Location: Fort McHenry National Monument and Historic Shrine, East Fort Avenue, Baltimore, MD, USA

Give a day for the Bay and join the Aquarium Conservation Team for a field day at the Fort McHenry National Monument and Historic Shrine wetland! You can help us maintain pollinator and rain gardens, remove debris from the wetlands and much more. Data collected from this event will contribute to the International Coastal Cleanup.

Pre-registration is required for this event. Volunteer space is limited and registration will close when the event is full. If you have registered and are no longer able to attend, please contact conserve@aqua.org. Participants must be at least 10 years old. All volunteers under 18 must be supervised by an adult.
Mini-Event Report

On August 1, 2018, twelve classroom teachers and five informal educators came together for the 2018 Virginia Mini Event to learn about submerged aquatic vegetation (SAV) in the Chesapeake Bay. Attendees listened to a short lecture from seagrass scientist Erin Shields, participated in SAV-related educational activities, had a nice networking lunch, and took a boat trip out to beautiful Goodwin Island to snorkel in seagrass beds and participate in a mock seagrass transect with Erin. Many of the participants are new members to MAMEA, so I’d like to extend them a warm welcome to the MAMEA family!

Resource Highlight

Virginia Water Educators Directory
This directory was assembled to strengthen and build the network of highly-trained educators throughout Virginia who support formal classroom teachers conducting successful Meaningful Watershed Educational Experiences (MWEEs) at the elementary, middle, and high school levels. This online directory is the work of the Virginia Department of Environmental Quality and the Virginia Water Resources Research Center.
To search for a water educator near you, visit http://www.vwrrc.vt.edu/virginia-water-educators-directory/.

Upcoming Events

Teacher Critter Collection (Saturday, September 22, 2018; 1:00-4:00 PM)
Want to set up an aquarium in your classroom but don’t know how or where to collect the critters for it? The Chesapeake Bay National Estuarine Research Reserve in Virginia is holding a Critter Collection day at the Virginia Institute of Marine Science on Saturday, September 22 from 1:00-4:00pm. CBNERR education staff will lead a short information session on estuarine aquarium keeping, classroom experiments using aquaria, and safety instructions for the collection exercise at 1:00pm. ALL teachers must attend this training ONCE before collecting animals for their aquaria. This is CBNERR policy. After attending a training session, you will not be required to do so at the next Collection Day. Check with Sarah to see if you have completed this requirement. We will go outside to collect around 1:45pm. Collect hardy critters that will work well in small 10-20 gallon classroom aquaria. Please note, this collection day is NOT suited for those looking to fill large 50+ gallon aquaria! This event is for teachers only, no students will be allowed to attend or participate, other than your own children. You may want to bring a friend, spouse, coworker with you to help pull the nets.
If interested in registering, contact Sarah Nuss at mcguire@vims.edu. Limited space available!

VIMS After Hours Lecture Series

This monthly series of public lectures by scientists from VIMS and elsewhere explores hot issues facing the Chesapeake Bay and the ocean. Reservations to this free public lecture series are required due to limited space. Please register online (see individual lectures) or call 804-684-7061 for further information.
Not able to make it in person? Visit our registration pages to sign up to watch online!
All After Hours lectures begin at 7 pm in McHugh Auditorium in Watermen's Hall on the VIMS campus in Gloucester Point. View directions and a campus map.
Events at the Virginia Aquarium & Marine Science Center:

Teacher Appreciation Night (Thursday, September 27, 2018; 5:30 PM)
Visit the Aquarium and explore our live animals and interactive exhibits at our Teacher Appreciation Night! Meet live animals and participate in hands-on school programs. Get free resources for your classroom and go on a Behind the Scenes Tour. Preview our new changing exhibit, Curious George: Let's Get Curious, or see the new film, Turtle Odyssey 3D. Teachers and one guest free; school ID or pay stub required to check-in. For more information, visit https://www.virginiaaquarium.com/visit/pages/event-detail.aspx?item=294&date=9/27/2018.

Night at the Aquarium (Saturday, October 6, 2018 8:00 PM)
Night Life with the Sea Life! Come on out to this new, exciting event and dance the night away with The Deloreans! Try an orange crush and enjoy exclusive night time fun with a local’s only feel. For more info, including ticket sales, visit: https://tickets.virginiaaquarium.com/categories/night%20at%20the%20aquarium.

Events at the Science Museum of Virginia:

Teacher Appreciation Day & Open House (Saturday, September 15, 2018; 9:30 AM – noon)
Everybody loves a field trip. The trick is to design a field trip that is fun, engaging and educational – one that will leave a lasting impression on students and will spark curiosity back in the classroom and at home. Join us for a teacher open house where you can learn more about field trips at the Science Museum of Virginia. Bring your immediate family, grab a quick breakfast and enjoy the Museum’s three floors of interactive exhibits on us! Members of our education team will be on hand to answer your field trip questions, talk through our Fall Field Trip Guide and give you the scoop on how to take your field trips to the next level. For more information, contact us at 804.864.1400 or info@smv.org.

Science After Dark Series
Science After Dark admission is $10 for the general public and free for Museum members and college students with a valid ID. Admission includes exhibits and event programming. Guests can add the feature film in the Dome for $5; members may use a Dome pass if they wish.

Friday, September 21, 2018; 5 – 9 PM: It Really IS Rocket Science
3, 2, 1… Blast off! What does it take to launch a rocket? Get hands-on and make stomp rockets, straw rockets and bubble rockets as you explore energy and the laws of motion. Who doesn’t need a homemade stomp rocket in their life? Then head to the Dome for all-live Cosmic Expeditions at 6:30 pm and 7:15 pm; space is limited to the first 250 guests at each show, no ticket required. Round out your night and purchase a ticket for a special showing of October Sky (rated PG) at 8 pm. After the shows, step outside to stargaze through telescopes with the Richmond Astronomical Society (weather permitting).

Friday, October 19; 5 – 9 PM: Glow
Science is fun. But it’s more fun when it glows in the dark! Join us for this special Science After Dark and make glow-in-the-dark art, write with light on our GLOW wall, see fire spinners, and more! At 6:30 pm and 7:15 pm, we’ll explore the universe in our all-live Cosmic Expedition; space is limited to the first 250 guests at each show, no ticket required. Then stick around for a showing of Frankenweenie (rated PG) in the Dome at 8 pm. After the shows, step outside to stargaze through telescopes with the Richmond Astronomical Society (weather permitting).
Save the Date!
Annual Mid-Atlantic Regional ROV Underwater Robotics Competition
Saturday, May 4, 2019 - 8 a.m.-4 p.m.
Old Dominion University Recreation and Wellness Center - Norfolk, Virginia

FREE! Teacher, Scout Leader, and Team Mentor Workshop at Nauticus!
Get Familiar with Remotely Operated Vehicles (ROVs) | Saturday, January 26, 2019, 9 a.m.-1 p.m | Limit 25

For more information and to register, contact:
Susie Hill, Nauticus Education Specialist/Special Programs Manager
(757) 664-1041 | rebecca.hill@norfolk.gov | midatlantic.marinetech2.org

Nauticus
Featuring the Battleship Wisconsin
(757)-664-1000 • nauticus.org
North Carolina Rep Report

Andy Gould
North Carolina State Representative

Upcoming Events

Methods of Teaching Environmental Education
Saturday & Sunday 10 AM - 2 PM from Nov 3, 2018 until Nov 4, 2018

Instructor: Amy Renfranz, GMSF Director of Education

The focus of this 10-hour workshop is to prepare participants from a variety of educational backgrounds and experiences in both the formal and non-formal sectors to use exemplary Environmental Education teaching methods. Participants will learn about a variety of teaching techniques, methods and instructional strategies; and the workshop will include multiple interactive components. This is a required workshop for all NC Environmental Education Certification candidates as Criteria I credit. This workshop may also count for Continuing Education for those educators who are already certified. Basics of Environmental Education is a pre-requisite for the MOTEE. This workshop may also count for Continuing Education for those educators who are already certified.

For more information, or to register, email judi@grandfather.com , or call (828) 733-2013.
Admission: Free Admission (Grandfather Mtn. Fee Waived for Registered Participants)

Location:
Grandfather Mountain Stewardship Foundation
2050 Blowing Rock Highway
Linville, NC 28646

Directions:
On US Highway 221, two miles north of Linville and one mile south of the Blue Ridge Parkway at milepost 305.

Presented by:
Grandfather Mountain Stewardship Foundation
2050 Blowing Rock Highway
Linville, NC 28646

Phone:
(Event Phone)
(828) 733-4326
(Event Phone)
(828) 733-2013
Upcoming NC Events:

NC Aquarium at Fort Fisher: BAJA ISLAND ECOLOGY EDUCATOR PROGRAM

Attention Teachers and Informal Educators!
Immerse yourself in the rich marine, island, and mainland ecosystems of Baja California, Mexico from July 29-Aug. 7, 2019. Connect with nature to energize your learning for the school year ahead and delve into resources to connect your students with the ocean. Both formal and informal educators are welcome.
Explore Bahia de los Angeles in the San Felipe Desert from both the water and land. Snorkel the turquoise waters, rich with sea life. Swim with whale sharks and sea lions in the Sea of Cortez. Discover the UNESCO designated World Heritage Site as a priority conservation area and its extraordinary diversity of marine life. Conservation is a key component of this trip and participants will be engaged with a conservation project in the field.

Dates: July 29-August 7, 2019

Cost: $1,995 + airfare to San Diego
Travel to San Diego not included.
Required travel insurance not included.

$250 non-refundable deposit to hold a spot.

Contact: Gail Lemiec at 910-772-0546 or gail.lemiec@ncaquariums.com for questions about the trip.
2019 NOSB Mid-Atlantic Regional Competitions

Submitted by Carol Hopper Brill, MAMEA Secretary & Blue Crab Bowl Regional Coordinator

Need a way to enrich your teaching with more marine science and motivate your students? Try a little competition! The National Ocean Sciences Bowl (NOSB®) offers three competitions within our Mid-Atlantic region, the 2019 contests will be held on either February 2 or 16. The winning team from each regional competition is invited to compete in the National Finals, to be held in April 2019.

Teachers act as coaches for NOSB competitions, preparing a team of 4-5 students to go head to head in an academic quiz-bowl competition. Students are tested on their knowledge of scientific and technical disciplines through rapid-answer buzzer responses as well as more complex written analytical questions. To prepare, students have to bolster their background in marine science content, from biology and chemistry to geology and physics, plus policy, maritime history and current science events. Plus, working as teams promotes leadership and collaboration skills.

MAMEA is proud to offer awards to first-time and winning coaches of all three Mid-Atlantic regional competitions.

For more information about the NOSB Competition in your area, check out the Regional Competition profiles below and visit the NOSB website at http://www.nosb.org/competitions-2/regional-competition-map/. Deadlines for registering your team are different for each Bowl, so check with the Regional Coordinator to sign up.

- **Chesapeake Bay Bowl** draws schools from Delaware, Maryland, the DC metropolitan area, as well as selected cities in nearby Pennsylvania and Northern Virginia. This northernmost of our Mid-Atlantic bowls rotates between institutions. The 2019 date and location are to be announced. Monitor the NOSB (above) and CBB websites (www.chesapeakebaybowl.org) for the most current information.

- **Virginia’s Blue Crab Bowl** is coordinated by the Virginia Institute of Marine Science and Old Dominion University. Teams are drawn from Virginia, with the exception of Northern Virginia’s DC Beltway region. Deadline for submitting pre-registration is November 1. This year’s contest will be held February 16 at the Virginia Institute of Marine Science, Gloucester Point, VA. Visit the Blue Crab Bowl website at www.vims.edu/bcb. or contact Host Site Coordinator Carol Hopper Brill at chopper@vims.edu, phone 804-684-7735.

- **The Blue Heron Bowl** in North Carolina rotates between institutions. In 2019, it will be held in Wilmington, NC, on February 2. For details, contact the NC Regional Coordinator Erin Moran, e-mail morane@uncw.edu, phone 910-962-2992. Or, visit the Blue Heron Bowl website at: https://sites.google.com/site/blueheronbowl.
2018/2019 Grant Cycle

Carol Hopper Brill
Grants Committee Chair

Wow, the new school year has started... Do you have a good idea or a program need? A MAMEA grant may be just what you need to help get your educational project off the drawing board and into reality, engaging students or fellow educators.

But, you need to act quickly – the deadline for the 2018/19 MAMEA Grant cycle applications is September 21st! To be eligible, applicants must be current MAMEA members with at least one year’s membership.

Each year, two grants of up to $1,000 each are available: One for formal educators (classrooms, K-16); and one for informal educators (museum, aquarium, zoo, science center, government agency staff). Projects must focus on marine or aquatic topics. The funding period is 12 months, from November 1 to October 31.

Members received an e-mail on Aug. 16 that included more information, including MAMEA Grant Guidelines, grant application form, and reviewers’ evaluation criteria. If you need those re-sent, contact Carol Hopper Brill (e-mail address below). You can read about projects that have received MAMEA support in the past - on the website at www.mamea.org/pastgrants.html.

Questions? Contact the Grants Committee Chair, Carol Hopper Brill at chopper@vims.edu. Grant awards are usually announced at the MAMEA Fall Conference or shortly thereafter.

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The MAMEA Board meets twice a year. For more information visit: http://www.mamea.org/board.html
You asked and we listened...
Get ready to show your pride with our full line of MAMEA gear!

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