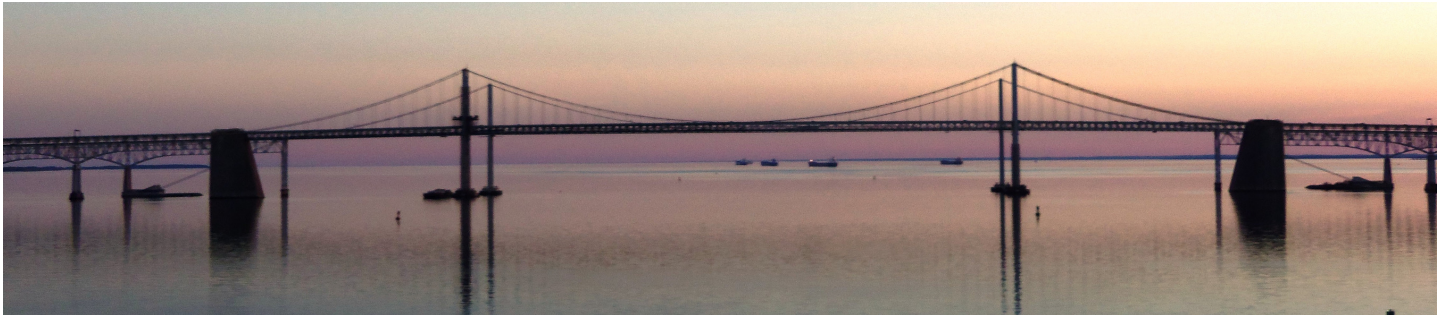




MASTHEAD

Quarterly Newsletter of the Mid-Atlantic Marine Education Association



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From the Captain's Quarters

Greetings MAMEA Family,

I hope this edition finds you all enjoying your last few days of summer. As the leaves start to change and the temperatures finally cool down, many members are gearing up for their busy time of years. For myself, I am busy getting my classroom ready and greeting new students as we start the school year. For others they are recovering from numerous summer camps and working to create new teacher workshops.

This summer I had the privilege of representing MAMEA at the National Marine Educators Association conference in New Hampshire. Getting to be around and collaborate with so many marine educators was such a privilege. A more complete recap of the conference is provided in this issue by our NMEA representative Kathy Fuller. I was extremely honored to win the Johnette D. Bosarge Award from NMEA. Many of our MAMEA members were presenters and represented our chapter very well.

As we are moving into the fall, we are gearing up for the MAMEA Annual Conference. The 2019 conference will be November 1-3 at the Chincoteague Field Station. Our fearless President-Elect Lisa Tossey has been working hard to make it our best one yet. We are currently accepting scholarship, award and concurrent session applications.

In closing, I want to thank you all for making my year as president a very rewarding and learning experience. If you are interested in being more active in our organization, please email me at ccarlin@hcps.us. We have lots of opportunities and committees that could use your help and expertise.

Sincerely,

Carrie Carlin

REGISTRATION NOW OPEN!



MAMEA 2019 Annual Conference
Chincoteague Bay Field Station
November 1-3, 2019 Chincoteague, VA

Early Bird Registration Deadline is September 22nd!
Registration closes mid-October



Register NOW for MAMEA 2019!

Lisa Tossey

MAMEA President-Elect & Conference Chair

Registration is open for our annual MAMEA conference! Please join us as we gather in Chincoteague, Va., on the first weekend in November for fun educational sessions, engaging speakers, networking with other educators from throughout the region, and unique field trip options. The conference will be based at the Chincoteague Bay Field Station - an active environmental education center just off the main island that offers modern meeting spaces, wet labs, and a spacious food hall. On-site lodging in the Field Station's dorm suites is available as part of the registration, allowing us to offer a low-cost inclusive registration option for participants!

Additional options are available during registration, including a hot breakfast buffet on Sunday morning, guest tickets for Friday's opening reception and Saturday's dinner and auction, and two local field experiences. One will be a behind-the-scenes ecosystem tour of neighboring Wallops Island, home to NASA's flight facility and rocket launches (U.S.-issued photo ID will be required, since this is a restricted area), while the other will be a "Wild Pony Safari" to Chincoteague National Wildlife Refuge, home of the hardy ponies who make their famous swim each summer during their annual round-up. Both field trips will depart from the Field Station Sunday morning, last approximately two hours, and are limited to 22 participants each.

Early bird registration opened Tuesday, September 3 and will run until Sunday, September 22. Regular registration rates will be in effect Monday, September 23 through mid-October.

Paul Standish Scholarships are available to MAMEA members interested in attending the conference. Scholarship applications close Thursday, September 12.

For questions or to volunteer to help with the conference, please contact Lisa Tossey at tossey@mdsg.umd.edu

MAMEA Conference Scholarships Open!

Sarah McGuire

Scholarship Committee Chair

The 2019 MAMEA scholarships are now accepting applications. More information about the scholarships can be found here <http://www.mamea.org/scholarship.html>, but the scholarships are to help with costs associated with attending the annual MAMEA conference. This year we are offering two types of scholarships, the Paul Standish scholarship for current MAMEA members, and the new Expanding Audiences scholarship which is to encourage new members to the organization. Even if you are not in need of a scholarship yourself, you can always nominate someone for the Expanding Audiences scholarship.

Scholarship applications are due September 12th, and you will be notified by September 19th, in time to register for Early Bird conference fees.

National Marine Educators Association (NMEA) 2019 Conference Recap

Kathy Fuller
MAMEA Chapter Representative to NMEA

MAMEA was well represented at the 2019 NMEA Conference based at the University of New Hampshire in Durham, New Hampshire. MAMEA members presented at least seven concurrent sessions on topics from shrinkage to data to 3-dimensional marine science lessons. Our current president, Carrie Carlin, was awarded the NMEA Johnette Bosarge award, MAMEA Treasurer, Jackie Takacs, was re-elected NMEA treasurer, and the NMEA leadership continues to look at MAMEA as a prime example of organizational effectiveness. MAMEA is basically a rock star organization as we already know.



The NMEA 2020 conference committee is already well on their way in planning the conference for next summer. Mark your calendars now for NMEA 2020: NANA I KE KUMU - LOOK TO THE SOURCE which is scheduled for July 13-17, 2020 in Honolulu, Hawaii. Did you hear that our own Terri Kirby-Hathaway won the raffle (again) for the 2020 NMEA conference registration?

MAMEA Members at NMEA 2019 (who came to the Chapter Meeting)



MAMEA Chapter Meeting at NMEA

Carol Hopper Brill
MAMEA Secretary

As part of their busy summer, more than 20 MAMEA members attended the NMEA 2019 Conference, held at the University of New Hampshire in Durham. During this inspiring conference, MAMEAns were involved in NMEA Board and committee meetings, several delivered presentations or manned exhibits, and everyone enjoyed one or more of the conference events and fieldtrips. Nineteen folks were able to attend the MAMEA Chapter Meeting on July 23.

MAMEA President Carrie Carlin welcomed members and conducted the annual gathering. After current Board Members re-introduced themselves, Past President and Nominating Committee Chair Lauren Fauth announced the results of the 2019/20 Board election. The new Board members will begin their terms of office at the MAMEA Annual Member Business Meeting, scheduled for November 2, during the upcoming MAMEA Conference.

The 2019 MAMEA Conference, set for November 1-3, was one of the Chapter meeting topics. We received the latest updates about the venue and accommodations at the Chincoteague Bay Field Station. More information about the speakers and fieldtrips is expected soon. If you want to help with the Auction or have suggestions for possible donors, contact Maggie Pletta at <Margaret.Pletta@delaware.gov>.

Committee chairs reviewed their announcements and deadlines for: MAMEA Awards; Conference and Expanding Audiences Scholarships; and Educational Project Grants. Reminders will also go out to all members via the Masthead and e-mails. Transitions in some MAMEA Committees are expected this fall: If you are interested in the position of Scholarship Chair, contact Sarah Nuss at mcguire@vims.edu for information on the position.

State Representatives announced their mini-conference activities:

*A Virginia event took place on August 17: a workshop on Southeastern Forests & Climate Change, held at the Chesapeake Bay Foundation's Brock Center.

*Plans for Spring 2020 may include events highlighting spawning phenomena: Maggie Pletta will organize an experience featuring the late spring horseshoe crab spawning in Delaware; Adam Frederick suggested a trip to observe salamander spawning in early spring.

*And, a Hawai'i-inspired event is being planned - in preparation for the NMEA 2020 Conference in the Aloha State.

Remember, events offered by MAMEA State Reps are open to all MAMEA members, regardless of their state of residence. NMEA has been impressed with MAMEA's state events and they will be encouraging more Chapters to follow our example as a way to engage existing members and attract new folks, too.

NMEA Rep Kathy Fuller reminded everyone about the NMEA membership discount (\$15) available for Chapter Members.

Sailing and STEM : All at Sail Nauticus Summer Camp

Susie Hill

*Education Specialist/Special Programs Manager
Nauticus featuring the Battleship "Wisconsin"*

From mid-June to early-August, Sail Nauticus provided seven fun-filled summer camp sessions of sailing and maritime STEM activities on the Elizabeth River. Sail Nauticus partners with local nonprofit youth organizations to extend this opportunity to those who otherwise would not have access. Each week was filled to capacity with over 320 campers overall, ranging from 8-15 years old. Together they learned basic sailing skills and advanced techniques for navigating Sail Nauticus' Harbor 20 sailboats along the Downtown Norfolk waterfront. Campers also participated in several land-based activities, including the engineering and design process, scientific reasoning and environmental awareness, which came full circle when applied to their time on the water. Campers understood the relation between sailing and buoyancy, building anemometers and collecting weather observations, collecting and identifying local river organisms, building underwater ROV's, buoyancy and more. Sail Nauticus' sailing camp offers our local youth the unique opportunity to spend their summer exploring the Elizabeth River while gaining confidence and new friends through sailing and applied science.



Delaware Rep Report

Amy Barra

Delaware State Representative

BEETLES- An Outdoor Education Epiphany

After one week in northern California I want to change my organization's entire education program- this was the overwhelming feeling from the participants at this year's BEETLES Leadership Institute. This summer was the final leadership institute and Liz Wist from Maryland Coastal Bays Program and I were both selected to attend as a team, so we packed our bags and headed off to camp for a week. The institute promised to introduce us to outdoor education techniques and lessons that we could then take back to our sites, but through the week we gained so much more than a handful of lessons and some best practices.

Arriving to Portola, CA from the east coast in early August was like a dream. Cool evenings and warm sunny days with humidity never rising above 28% was an incredible relief from the heat and humidity on Delmarva. We met educators from 24 other programs around the world and 9 emerging leaders who were wildly impressive. The BEETLES team from UC Berkley's Lawrence Hall of Science were welcoming and thoughtful and throughout the week we were all in awe of their facilitation skills.

BEETLES stands for Better Environmental Education Teaching Learning and Expertise Sharing, and in terms of professional development this institute perfectly fit my needs as an informal outdoor educator. Most of the professional development sessions I've attended have been created for formal educators, or at least educators with a building or a classroom, so I often find myself adapting the provided lessons or techniques. BEETLES is different, these are lessons and techniques specifically developed for outdoor science education. They've been tested by other outdoor educators, they connect to NGSS, they're student centered, and they were developed based on how people learn. For an outdoor educator that is some swoon-worthy material! But I still expected to adapt these lessons to what I was already doing at our site, but by day 2 of the institute I was convinced otherwise.

On the second day we were introduced to a lichen activity. As with all BEETLES activities, the instructor acts as a facilitator with the students leading the learning. Many of us felt confident that we knew all we would need to know about lichen, but by simply going out and exploring lichen growth patterns with a hand lens and a partner- we realized that our assumed knowledge was hindering our learning- and probably the learning experiences of our students! I quickly discovered that by simply stating "I notice" and "I wonder" statements my eyes were opened to an entire world of lichen, and I found myself asking questions I had no idea I had any interest in before. My activity partner and I explored different sized trees to find the youngest one with lichen growing on it, and then pondered if the patterns and types of lichen grew in succession- like a forest after being cleared or burned. Spoiler- it does! And this lesson stuck with me in a way no other lichen lecture or activity ever has. Even a month later I find myself stopping at lichen covered trees to



Liz Wist and Amy Barra on day 1 of the BEETLES Institute



BEETLES participants explore a pond for a Discovery Swamp activity

examine the types and patterns of lichen growth. I didn't need an expert to tell me all there was to know about lichen, and I didn't need an entertaining educator to act out a skit or tell a cute story. I had a "light bulb moment" based on my own experience. As an educator I know that student centered learning is ideal, but find I can sometimes get caught up in meeting standards and giving information, BEETLES was a great reminder of how important it is to provide time and space for students to explore their own questions.

Throughout the remainder of the institute the lessons and experiences continued to resonate with me. Liz and I spent evenings in our cabin excitedly chatting about how we would bring BEETLES to Delmarva. As a result of this institute we'll be leading a workshop in October focused on introducing other educators to BEETLES. They have a wealth of free resources on their website for educators interested in incorporating these student centered techniques and activities into their organization, and we'll be working with many of our partner organizations to help in the process. At the Center for the Inland Bays, we're currently restructuring all of our educational programs to follow the research based techniques developed by BEETLES. We're so excited to see how these new programs are received by our students and visiting teachers!



Educators gather around BEETLES team members for an activity introduction

October DE Mini Conference- Introduction to BEETLES

Amy Barra

Delaware State Representative

Delaware Center for the Inland Bays, October 1, 2019 9:30am- 4:00 pm

Educators wishing to effectively teach science outside while meeting Next Gen Standards are invited to attend a full day workshop introducing techniques and lessons developed by the BEETLES Project! Amy Barra from the Delaware Center for the Inland Bays and Liz Wish from Maryland Coastal Bays Program will guide educators through a selection of BEETLES (Better Environmental Education Teaching Learning and Expertise Sharing) lessons. Take your outdoor science lessons to the next level with the BEETLES techniques!

Workshop will be held indoors and outdoors, so please dress for the weather. Lunch will be provided. Cost: \$10/ person includes a 1 year membership to MAMEA. E-mail abarra@inlandbays.org to register or for more information.

**This training is not sponsored by BEETLES*

Make Plans for Coast Day 2019 on Oct. 6!

David Christopher

Marine Education Specialist

Delaware Sea Grant

Coast Day is held at University of Delaware's Hugh R. Sharp Campus in Lewes, Delaware. This annual event showcases how University of Delaware scientists, staff, and students are improving our understanding of ocean environments. It shares the work of Delaware Sea Grant to connect communities to the latest science to solve local problems. And it features scores of exhibitors from across the state displaying their own environmental work.

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 activities from faculty labs, vendor displays, and seafood favorites showcased by local chefs at the Crab Cake Cook-Off and the Seafood Chowder Challenge.

Our theme for 2019 is "A Ripple Through Time" and emphasizes the ways scientists study changes in our environment over time and the ways Sea Grant extension agents and others work to improve our future.

Visit the Coast Day website at www.decoastday.org for more information.

Maryland Rep Report

Evan Beatty
Maryland State Representative

Osprey Banding Recap

On June 15, 2019, ten Maryland Educators participated in an Osprey Banding Workshop. Educators learned about restoration efforts in Patuxent River Park, threats facing Osprey populations today, and ongoing research projects being done on osprey populations.



Chesapeake Bay Landscape Professional Level 1 Training

Date: September 10, 2019

Time: 9:00 am - 4:00 pm

Join us for Chesapeake Bay Landscape Professional (CBLP) Level 1 training, September 10-11, 2019, in Richmond, VA. Additional dates and locations in MD, PA, and VA are offered this summer. Visit <http://cblpro.org/training-calendar/> for more information.

CBLP's active learning program engages participants to develop critical thinking, problem solving, and collaborative practice skills. We focus on the unique ecology and regulations of the Bay region. Level 1 consists of a two-day class that combines classroom learning about conservation landscaping (native plants, natural communities, habitat, soils, invasives management) and stormwater best management practices (BMPs), with a field-based maintenance practicum. The class also covers BMP inspection and verification protocols. Level 1 candidates are required to pass a written examination after the class.

Candidates receive access to CBLP's online webinar series on sustainable landscaping topics and a copy of CBLP's sustainable landscape maintenance manual, as well as exam preparation tutorials. Additional resources are available via free download or purchase. Visit cblpro.org for more information.

Bay, Harbor and Home: Exploring and Restoring Special Places in the Chesapeake

Date: September 17, 2019

Time: 6:30 pm - 9:00 pm

Location: 501 E Pratt St, Baltimore, MD 21202, USA

Please join us on the evening of September 17, 2019 for 'Bay, Harbor and Home: Exploring and Restoring Special Places in the Chesapeake.' We are excited to host a Blue Beacon panel discussion presented by the National Marine Sanctuary Foundation and National Aquarium as part of the Marjorie Lynn Bank Lecture Series. A panel of experts will highlight a few of the Chesapeake's special places as examples of how community-based efforts can help restore and protect this watershed for future generations. For more information and to purchase tickets, please visit aqua.org/lectures.

Enhancing Diversity, Equity, and Inclusion in the Coastal Sector

Date: September 18, 2019

Time: 9:00 am - 4:00 pm

Location: AGU Conference Center 2000 Florida Ave NW Room 113 Washington, DC 20009

As part of our ongoing commitment to diversity, equity, and inclusion (DEI), Restore America's Estuaries (RAE) will be hosting an interactive workshop in the nation's capital during National Estuaries Week 2019 focused on DEI in the coastal sector. Information on the event, registration, and sponsorship opportunities can be found at: <https://estuaries.org/initiatives/dei-workshop/>

Facilitated by the nationally-recognized consulting organization Avarna Group, and made possible through a grant by the National Science Foundation, this event will focus on adding a DEI lens to recruitment and hiring in the coastal community.

Facilitators will guide participants – through group discussion, collaborative activities, and best practice studies – in viewing bias through three lenses:

- Individual bias that manifests in our personal thoughts and interactions
- Institutional bias that pervades agency and organizational practices and policies – especially those in recruitment and hiring
- Bias that impacts the entire environmental sector based on the history and legacy of conservation and environmentalism

Workshop attendees will have an opportunity to:

- Gain a deeper understanding of bias in the coastal conservation, restoration, and management industry
- Learn strategies for identifying and combating bias during recruitment, hiring, and promotion processes
- Acquire actionable tools to engage in and promote DEI efforts within their own organizations

RAE encourages anyone from the coastal sector to attend, including recruiters, hiring managers, human resource practitioners, and supervisors interested in the advancement of traditionally underrepresented individuals. A special focus will be placed on issues, and subsequent solutions, within coastal research and conservation institutions.

Virginia Rep Report

Cathy Roberts
Virginia State Representative

Virginia Aquarium Teacher Appreciation Night

September 26
6:00-8:00 PM

Museum open house with opportunities for behind the scenes tours, information on field trips, outreach, suitcase science, and other programs. Come and join in.

For more information e mail Rachael Clark RRiesbec@virginiaaquarium.com

VIRGINIA AQUARIUM BAJA WHALES EXPEDITION

February 7 - 15, 2020

See gray whales up close and personal! Enjoy thrilling opportunities to encounter these gentle giants from a small boat.

Visit a natural reserve in an enormous salt marsh where birds migrate from Russia, Canada, and other latitudes.

Watch lively folk dancing at a local school in San Ignacio, a charming mission town in the midst of a lush, tranquil oasis.

Explore scenic desert landscapes of gigantic granite boulders, boojum trees, cardon cacti and elephant trees.

For more information and prices contact: Karen Burns KPBurns@virginiaaquarium.com

Youth Conservation Summit VA Aquarium

March 7, 2020, 9:00 a.m. - 4:00 p.m.

The national Youth Ocean Conservation Summit empowers students from across the country with the knowledge, resources, and support needed to launch ocean conservation projects to protect marine ecosystems in their local communities. \$15 per student.

Registration opens January 2, 2020

To register, call 757-385-0278 or email programs@virginiaaquarium.com

Suffolk River Heritage River Talks

Oct 29, 2019 *Oysters and State of the Nansemond River Report Card*

6:30 PM Social

7:00-8:00 Speaker

Free and open to the public

CEH Community Hall, 8881 Eclipse Dr, Suffolk, VA 23432

For more information about Suffolk River Foundation or River Talks email: info@suffolk-river-heritage.org or call 757 537-7718 or 757 403-1986.

2019 VAST PROFESSIONAL DEVELOPMENT INSTITUTE

November 14-16, 2019

Hotel Roanoke and Conference Center, Roanoke, VA.

The 2019 VAST Professional Institute will focus on the theme: STEM Starts with Science. We will be examining the role of science in the United States and in public education and sharing ways to make your classroom science become more engaging and motivating. We will also examine the connections between science and engineering, technology, and mathematics and how to strengthen those connections in our classrooms. We will also be preparing teachers to engage with the new 2018 Science Standards of Learning and the skills in the new Profile of a Graduate that are an integral part of the new standards. Online Registration: <https://vast.wildapricot.org/Registration-Information>

Women can fly Virginia

Military Aviation Museum September 21, 2019, 10:00 a.m. - 2:00 p.m.

PRE-FLIGHT BRIEFING - Prepare for your flight by learning about the aircraft controls and safety procedures.

WARBIRD DEMONSTRATION, FLIGHT SIMULATORS AND STATIC AIRCRAFT DISPLAY - Visit the Military Aviation Museum and see their spectacular collection of aircraft, view a warbird demonstration, operate the controls of a flight simulator and have a close up look at many rare aircraft.

MEET AND GREET - Talk with women aviators, student pilots, and professionals who will be happy to discuss their experiences and answer any questions, including how to get started with flight training or learning about career opportunities in aviation.

COMPLIMENTARY AIRPLANE RIDE! - Enjoy a flight in a private airplane with volunteer pilots who would love to share their passion with you! If you are sitting up front, you may get the chance to move the controls yourself!

Mitch Welch Military Aviation Museum events@aviationmuseum.us (757) 721-7767

Online Registration begins on April 1, 2019 at www.womencanfly.com

Lynnhaven River Now Events

Bird Walk at Pleasure House Point

October 5, 2019

07:30 AM - 09:30 AM

Join us on Saturday, October 5 7:30-9:30am at Pleasure House Point, one of the major stopovers of migratory birds on the Atlantic Flyway, to take a walk through the property in search of birds. What better way to go bird watching than with an avid Audubon birder at this ideal location! Free of charge. Email office@lrnow.org or call 757-962-5398 to register,

Mariner's Museum Lectures

Mariner's Museum and Park
100 MUSEUM DR, NEWPORT NEWS, VA, 23606

OCT 5

Milestones in Early Submarine Development

Presented by Liz Williams, Collections Management Technician

Lecture begins at 10:30 AM & 2:30 PM

Come hear about the intriguing existence of submarines throughout the centuries from Liz Williams, the Museum's Collections Management Technician. Regarded as part of the "Silent Service" by the American public, the long history of submarines is often hidden below the waves with the subs themselves. The development and improvements that brought these vessels through to modern times have often come out of necessity or lessons learned from emergencies. Through this lecture, we'll discuss several key submarines that helped change the design, safety, and capabilities of American submarines.

NOV 2

Going to Pieces over Conservation: Treatment of USS Monitor's Gun Carriages

Presented by Elsa Sangouard, Senior Conservator, USS Monitor Center

Lecture begins at 10:30 AM & 2:30 PM

Join Elsa Sangouard, a senior conservator in the USS Monitor Center, for a behind-the-scenes view into what it takes to conserve the US Navy's first ironclad warship! Conserving large composite artifacts (made of different materials) is a multiyear process that requires a wide range of expertise from welders to analytical chemists. The port gun carriage is the largest of USS Monitor's composite artifacts to be fully conserved to date. This lecture presents an overview of the conservation treatment process for the port gun carriage and describes disassembly challenges, innovation developed, and lessons learned. In the near future, the results of this work will be applied during the conservation of the starboard gun carriage.

Virginia Summer Mini Conference

The Virginia Mini Conference this August was a cooperative effort with Lynnhaven River NOW. Jody Ullman helped Cathy introduce participants to the Project Learning Tree Curriculum on Climate Change and Southeastern Forests. The event was held in the BROCK Center which included an opportunity for participants to tour this green building and learn of the conservation efforts in its construction and daily operations. Connections were made between forests and healthy waterways culminating with seining activities to investigate local marine life.



LYNNHAVEN *River* NOW

Restoring Virginia Beach Waters

Fall Festival

Saturday, October 12, 2019

11:00 am- 3:00 pm

Mount Trashmore

310 Edwin Dr, Virginia Beach, VA 23462

Hands-on Children's Activities

Educational Exhibitors

Music

Native Plant Sale **

Games and Prizes

Family Fun

Eco-Friendly Vendors

Local Artisans

Free and Open to the Public

For more information contact terri@lrnow.org or 757-962-5398

North Carolina Rep Report

Andy Gould

North Carolina State Representative

Fall Teacher Workshops at the NC Aquarium at Fort Fisher

September 14: Project Wild

September 28: Sea Turtle Exploration

October 12: Project OWL

November 2: Project WET

November 9: Flying Wild

To register for any of the workshops above, please visit:

<https://reservations.ncaquariums.com/fortfisher/Info.aspx?EventID=20>

Questions? Contact Gail Lemiec at gail.lemiec@ncaquariums.com or 910-772-0546.

Project WET

Friday, Oct 11, 2019 9 AM to 4 PM

Location: Piedmont Environmental Center of High Point

1220 Penny Road

High Point, NC 27265

To register please call Carrie Council at 336.883.8531 or email at carrie.council@highpointnc.gov. We need your name, birth date, address, phone number and email for registration. Give us a shout if you have any questions.

Admission: \$21/person Event Phone: 336.883.8531 Event Link: www.highpointnc.gov/pec

Advanced Wild: Bats

Wednesday, Oct 23, 2019 4 PM to 9 PM

Join the N.C. Wildlife Resources Commission at Walnut Creek Wetland Park in a learning adventure about bats, one of our most misunderstood animals. We'll learn about the biology and habits of these amazing mammals and learn ways to communicate this information to students. This workshop qualifies for Criteria III credit towards NCEE Certification. Registration barcode is #248911. You can register at reclink.raleighnc.gov or call 919-996-2760.

Admission: FREE Parking fee: FREE Event Phone: 9199962760 Event Link: reclink.raleighnc.gov

Upcoming NC Events:**Methods of Teaching Environmental Education**

November 9-10, 2019

10:00 a.m. – 4:00 p.m.

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 who enrolled in the program after January 1, 2009 as Criteria I credit. This workshop may also count for Continuing Education for those educators who are already certified.

These adult programs are free of charge, and admission to the park is complimentary for those that are attending the course. The workshops will be at high elevation (> 4500 ft) and will include some walking, so please bring appropriate footwear and be prepared for inclement weather. Participants are asked to provide their own lunch, but there is a restaurant on site (Mildred's Grill) in the Nature Museum. The participant limit for each workshop is 25 individuals. Upon registration, you will be sent detailed information on course meeting location and expectations.

Register by visiting the below website and selecting the appropriate program:

<https://grandfather.com/events/category/featured-events/>

Contact amy@grandfather.com with questions.

Admission: No Admission Cost (Grandfather fee waived for registered participants)

Parking fee: \$0

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

Phone: (Event Phone) (828) 733-4326, (Event Phone) (828) 733-2013

Storytelling for Environmental Educators

Monday, Nov 25, 2019 9 AM to 4 PM

Have you ever been mesmerized by a good storyteller, and perhaps even wished you could tell stories like that? In this workshop, we will learn about the origins of storytelling, how to gauge your audience and many storytelling techniques. This program is eligible for Criteria III and Continuing Education credit toward NCEE Certification. Please come dressed to spend some time outdoors, bring a water bottle and a bag lunch. Coffee, tea and hot chocolate provided. Registration barcode is #243284. You can register at reclink.raleighnc.gov or call 919-996-2760

Admission: FREE Parking fee: FREE Event Phone: 9199962760 Event Link:
reclink.raleighnc.gov

Location: Walnut Creek Wetland Park, 950 Peterson Street, Raleigh, NC 27610

2020 NOSB Mid-Atlantic Regional Competitions

Carol Hopper Brill

MAMEA Secretary & Blue Crab Bowl Regional Coordinator

Want to challenge your motivated students or spark interest in others? Try a little competition! The National Ocean Sciences Bowl (NOSB®) offers three annual competitions within our Mid-Atlantic region. The 2020 contests will be held on selected Saturdays in February. The winning team from each regional competition is invited to compete in the National Finals held in April 2020.

Teachers serve as coaches for NOSB competitions, preparing a team of 4-5 students to go face off 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 recognizes the hard work of teachers by offering 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 takes place on February 3 at the University of Delaware's Lewes Campus. For more information or to register a team, contact Regional Coordinator David Christopher at dmchrist@udel.edu or phone 302-645-4193. Updates will be become available at www.chesapeakebaybowl.org.

Virginia's Blue Crab Bowl is coordinated by Old Dominion and the Virginia Institute of Marine Science. Teams are drawn from Virginia, with the exception of Northern Virginia's DC Beltway region. Deadline for submitting a statement of intent to compete is October 28. This year's contest will be at ODU's Higher Education Center in Virginia Beach on February 7-8. For more details, visit the Blue Crab Bowl website at www.vims.edu/bcb. or contact Teams Coordinator Carol Hopper Brill at chopper@vims.edu, phone 804-684-7735.

The Blue Heron Bowl in North Carolina rotates between institutions. In 2020, it will be hosted by Eastern Carolina University's Coastal Studies Institute. For the Coordinator contact information and other details, watch for updates on the NOSB competition map, <http://nosb.org/compete/competitions/regional-competition-map/north-carolina/>.

High School Team from St. Louis visits Hampton Roads and Chesapeake Bay region thanks to third place finish at the finals of the National Ocean Science Bowl

Bill Dunn

Blue Crab Bowl

Ocean, Earth and Atmospheric Sciences Department

Old Dominion University

wdunn@odu.edu



Want to see high school students totally excited about marine science, history and policy? Attend, or even better coach or sponsor a team entered in one of the three National Ocean Science Bowl (NOSB) regional competitions. Each year the Consortium for Ocean Leadership (COL) hosts the national finals for the National Ocean Science Bowl (NOSB). This competition brings together 25 regional winners from across the country. MAMEA is fortunate to encompass three NOSB regions – 1) the Chesapeake Bay Bowl (hosted by George Mason University and the University of Delaware) covers Maryland, Delaware, the District of Columbia, and parts of Northern Virginia (as well as parts of Pennsylvania and New Jersey), 2) the Blue Crab Bowl (hosted by Old Dominion University [ODU] and the Virginia Institute of Marine Science [VIMS]) includes the remainder of Virginia and 3) the Blue Heron Bowl (hosted by the University of North Carolina Wilmington) includes teams from North Carolina.

This year, one of the finals prizes was a visit to the Hampton Roads and South Chesapeake Bay area. Having placed third at nationals in April, the NOSB team from Ladue Horton Watkins High School in St. Louis, Missouri flew into Norfolk in early August and spent five action packed days touring with Amanda Holloway of the Consortium. Amanda, with some help from Carol Hopper Brill (VIMS) and me (OEAS at ODU), put together a fun filled and educational itinerary for the team. The first day in Virginia Beach, the team visited the Virginia Aquarium and Marine Science Center including a “Behind-the-Scenes” tour and a dolphin watching boat trip followed by an evening ocean kayak trip around Cape Henry with Chesopean Outdoors and refreshments on the beach. The second day they were hosted by NOAA in Norfolk and got some hands-on experience with hydrographic vessels and the making of charts, traveling that evening to the Eastern Shore of Virginia. On the third day the team visited the VIMS Eastern Shore Laboratory and ventured into the marshes. The fourth day brought them back to Norfolk where they spent the day with the professional oceanographers and meteorologists of the U.S. Navy. The day included tours of the Fleet Weather Center and the aircraft carrier USS Eisenhower. Their final day found them on the Peninsula where they visited the Mariner’s Museum in Newport News and then spent the afternoon at the Gloucester Point campus of VIMS visiting labs doing some fishing before flying home that evening from Richmond.

In the OCEAN NEWS WEEKLY for the week of August 12, 2019, the president of the Consortium for Ocean Leadership wrote: "Every year, I'm so impressed by and proud of what our NOSB students accomplish . . . The way they cooperate, communicate, and get excited to learn about ocean science reassures me that in hard times, like a ship in a storm, the ocean will have a steady and knowledgeable hand at the helm steering it toward a brighter future. Many thanks again to all the institutions who hosted our NOSB students, and the countless volunteers who make these trips and the competitions possible." (RADM (Ret.) Jon White, President & CEO of the Consortium for Ocean Leadership)

Teams of high school students may be sponsored by museums, aquaria, or other organizations - and of course high schools! If you are interested in entering a team or volunteering to help at a regional bowl, go to the NOSB website at nosb.org. Look under competitions, find your bowl and contact the regional coordinator. I guarantee you and your students will have fun and learn science!



About to board the IKE



Ladue students visit NOAA in Norfolk



Into the marsh with VIMS



Mapping the bottom of Elizabeth River



Kayaking around Cape Henry

MAMEA 2019 Board Election Results

Lauren Fauth

MAMEA Past-President

Nominating Committee Chair

The Mid- Atlantic Marine Education Association held elections for board officers, from June 8- July 8, 2019. We are pleased to announce the following candidates as the winners of our 2019 election. They will take office during our business meeting at the annual conference in November.

President-Elect

Evan Beatty



Evan Beatty is an 8th Grade General Science Teacher and 7th Grade Earth Space Science Teacher at Deer Park Middle Magnet School in Baltimore County. Evan also serves as Green Schools Coordinator, 8th Grade Team Leader, and Green Team Mentor at DPMMS. She was also chosen to be one of 2018-2019 Northrop Grumman NSTA Teacher Fellows.

Prior to becoming a formal education teacher she worked at the National Aquarium as an Education Specialist. Evan studied Biology at Juniata College and earned her teaching certification through the MAAP program at Goucher College. Evan is the current Maryland Rep to MAMEA and also serves as Co-Chair of the Social Media committee. In her free time Evan competes in Dock Diving with her dog River and coaches swimming for Merritt Athletic Clubs.

Secretary

David Christopher



David Christopher is currently the Marine Education Specialist at Delaware Sea Grant where he conducts teacher and student programs as well as works with researchers to communicate science to schools and the public. David recently moved to Sea Grant from the National Aquarium, Baltimore where he was Formal Education Manager in charge of school and teacher programs.

David grew up crabbing and boating on the Chesapeake Bay and has always had a deep connection to water ever since. David holds a degree in Biology from St. Mary's College of Maryland where he focused on wetland ecology. In 2004, David received a Master's in Education from Goucher College.

David has been a long time active member in both NMEA and MAMEA. He has served as the Secretary and President of the Mid-Atlantic Marine Education Association. He has also served as the MAMEA representative to the NMEA Board. David is currently the MAMEA Standing Rules and Archives Chair. David has previously served as a Director on NMEA board and is currently the NMEA Bylaws Chair. David was the recipient of the 2017 NMEA President's Award.

Maryland Rep

Lauren Fauth



Lauren Fauth is the School Programs Lead at the National Aquarium. She joined the National Aquarium in 2012 and has been a MAMEA member since 2011. Lauren holds a dual master's in Park and Resource Management and Environmental Education from Slippery Rock University, as well as a bachelor's degree from Millersville University where she majored in Marine Biology and Ocean Science and Coastal Studies. Lauren has worked in the environmental education field for 9 years, both at the National Aquarium and the North Carolina Aquariums (Fort Fisher and Pine Knoll Shores). In her current position she is responsible for working with school groups for both onsite programs at the Aquarium and outreach programs at their schools, teacher workshops, homeschool programs, and is the education intern supervisor. She also served on the NMEA 2014 planning committee as the Exhibits chairperson. Most recently Lauren served in the President's chain of MAMEA, but would love to continue her work on the board.

North Carolina Rep

Brittany Pace



Brittany Pace is the Coastal Education Coordinator for Fort Caswell's Environmental Stewardship Program. She is devoted to marine science education and leads a team of educators to provide field trips and outreach for students across the state. Creating memorable experiences that increase awareness and appreciation for the environment is the driving inspirational force for our team. Recently, Fort Caswell hosted the NC mini-MAMEA Conference, which focused on our changing shoreline and the relocation of sea turtle nests. Before coming to Caswell, she was the Education and Outreach Coordinator for the Deep-C Consortium in Florida where she was active in FMSEA. She graduated from UNC-Wilmington with a B.S. in Marine Biology '10 and an M.S. in Environmental Education and Coastal Management '13. During grad school, Brittany traveled the state meeting educators and learning about different environmental education centers. She spent several years with UNCW's MarineQuest program taking kids to the beach, exploring in the salt marsh, seeing their awe for the giant fish tanks at the aquarium, diving shipwrecks, and conducting lab experiments. Her passion for kids and marine science is evident in everything she does. Being a member of NMEA and MAMEA has given her many opportunities to network with scientists and educators. I would love to be your North Carolina Representative.

Member At-Large Rep

Dawn Sherwood



My name is Dawn Sherwood and I currently teach College Biology, AP Environmental Science, and Earth Science at Highland Springs High School. I wrote the oceanography curriculum for our county which is now taught at all 9 high schools. I have a background in marine science and love being underwater around 60 feet. I try to incorporate my knowledge and love for the ocean into the courses that I teach and activities that we do around campus including the International Coastal Cleanup event that we do every fall. I have been the VA state representative, along with the MAMEA president chain and I don't think I have missed a single MAMEA since I first joined over a decade ago. I have presented various programs at both MAMEA and NMEA and look forward to attending the upcoming conferences.

A warm welcome to our new MAMEA Board members!



New School Year, New Project Ideas, Need Funding?

Carol Hopper Brill
Grants Committee Chair

A new school year is starting... Do you have a good idea or a program need? A MAMEA grant may be able to help you bring educational project off the drawing board and into reality, engaging students or fellow educators.

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 and should actively engage learners. 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.

2019-2020 BOARD OFFICERS

President: Carrie Carlin
 Atlee High School

Past President: Lauren Fauth
 The National Aquarium

President-Elect: Lisa Tossey
 Maryland Sea Grant

Secretary: Carol Hopper-Brill
 Virginia Institute of Marine Science

Treasurer: Jackie Takacs
 University of Maryland & Maryland Sea Grant

2019-2020 STATE REPRESENTATIVES

Delaware: Amy Barra
 DE Center for the Inland Bays

Maryland: Evan Beatty
 Deer Park Middle Magnet School

North Carolina: Andy Gould
 NC Aquarium, Fort Fisher

Virginia: Cathy Roberts
 VA Aquarium

At-Large Rep: Emily Peters
 The National Aquarium

At-Large Rep: Rachel Riesbeck Clark
 VA Aquarium & Marine Science Center

The MAMEA Board meets twice a year. For more information visit: <http://www.mamea.org/board.html>