

MASTHEAD

Quarterly Newsletter of the Mid-Atlantic Marine Education Association

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Captain's Quarters Evan Beatty, MAMEA President

Greetings MAMEA Members,

Our Board has been busy. We continue to move forward on our updated strategic plan. Our current strategic plan was written to be in effect until 2023. We continue to look for feedback and input from our membership to ensure the new strategic plan addresses the issues important to our members. Also, be on the lookout for mini events in your state.

A small, yet mighty group of members from the Mid-Atlantic region met during the MAMEA Chapter Meeting at the National Marine Educators Association conference at Hofstra University in Hempsted, NY. Thank you for all who attended the Chapter Meeting, both in-person and virtually.

We are excited to have held our Board elections, and we will welcome the new Board members during our Annual Conference this fall.

Speaking of the Annual Conference, MAMEA will invade Emerald Isle, NC, October 28-30, 2022 for our Annual Conference. [REGISTRATION IS OPEN!](#) Be sure to take advantage of the early-bird registration rate through September 30th. Scholarships are still available through the scholarship deadlines.

Evan Beatty, MAMEA President
ebeatty@hershey.k12.pa.us

If you find an entangled animal in North Carolina, (South Carolina, or Georgia) please report it!
The *Tangled in Trash* app is available from Anecdata [here.](#)

After submitting a report, observers will be prompted to contact wildlife responders for live animals and certain types of deceased animals.

Here are NC Live Stranding Contacts:

- Stranded marine mammals: UNCW Marine Mammal Stranding Network, 910-515-7354
- Stranded sea turtles: North Carolina Sea Turtle Stranding and Salvage Network Hotline, 252-241-7367
- Injured birds & non-marine mammals: [North Carolina Wildlife Resources Commission Wildlife Helpline](#): 866-318-2401





Lifeline

As September is National Emergency Preparedness Month, I offer a simple thought: **Have a PLAN.**

P - Prepare

- Federal, State, and Local Government websites offer plenty of pointers.
- Check out the FEMA App.
- Develop a family and/or friends communication plan.

L- Learn

- Become familiar with your regional emergencies and disasters.
- Identify local resources.
- Memorize important phone #'s.

A - Alerts

- Have alerts sent to your phone.
- Follow directions of officials.
- Monitor local media.

N - Notify

- Inform family and/or friends of your status and location.
- Ask family and/or friends to do the same.
- Check on vulnerable neighbors.

Stay safe!
 Chuck Fuller

Do YOU Need Money for a Fabulous Project?

Dawn Sherwood, Grants Committee Chair

MAMEA is looking for great ideas to support in its upcoming grant cycle (2022/2023). You can get your next educational project off the drawing board and into reality, engaging students or fellow educators. Start working on your proposals now!!!

Two grants for up to \$1000 are available annually: one for formal educators (classrooms, K-16); and one for informal educators (museums, aquarium, zoo, science center, and government agency staff). Projects should actively engage learners and focus on marine or aquatic topics.

To be eligible, applicants must be current MAMEA members with at least one year's membership. To be competitive, projects should meet the program structure described on the [MAMEA Grants page](#). Read about projects that received MAMEA support in the past [here](#).

Visit the Grants page on the MAMEA website for the grant application form, as well as important details about the application process and grantee responsibilities.



Questions? Contact the Grants Committee Chair, Dawn Sherwood dcsherwood@henrico.k12.va.us. Proposals are accepted throughout the year, but **the deadline for the 2021/22 cycle is September 15, 2022.** Grants awarded will be announced at the MAMEA conference in Fall 2022 and the funding period is 12 months – from November 2022 to October 2023, with no extensions.



MAMEA election results are in. Congratulations to our newly elected Board members who will take office during our Annual Conference.

- President-Elect - Lolita Kiorpes
- Secretary - David Christopher
- Maryland/DC Representative - Mindy Quinn
- North Carolina Representative - Andy Gould
- At-Large Representative - Amy Sauls

VA SEA Fall Lesson Plan Log: Highlighting Hands-On, Research Based Marine Science Activities for K-12 Classrooms

*Bethany Smith, Marine Education Specialist (bsmith@vims.edu)
Virginia Institute of Marine Science – Marine Advisory Program*



Graduate students in the Virginia Scientists & Educators Alliance (VA SEA) program (a program facilitated by educators at the Virginia Institute of Marine Science and Chesapeake Bay National Estuarine Research Reserve in Virginia) have created over 50 unique, hands-on lesson plans geared towards middle and high school audiences. These lesson plans provide real-world connections to classroom learning across a variety of science disciplines, and are easily scalable to meet the needs of your unique classroom. In this fall edition of the VA SEA Lesson Plan Log, we highlight three lessons that will help get your school year off to a fin-tastic start!

Find the Bullseye: Targeting Conservation of the Candy Darter

In this activity, designed by ODU student Jem Baldesimo, your students will determine the risk of extinction of the Candy Darter. Using available data, students will collaborate to determine conservation status, and apply their understanding of extinction risk by formulating a creative media project to help raise awareness and promote conservation of the Candy Darter. This lesson is an excellent real-world example of human impacts on the environment. Jem's lesson plan most closely addresses middle school life science and high school biology standards.

Killer From the Deep!

In this activity, designed by VIMS student Tor Mowatt-Larssen, your students will explore the deep-sea environment through a fishy murder mystery. Aided by several graphing activities, your students will further their understanding of deep-sea biological adaptations, and then use this new knowledge to help solve the murder mystery. This lesson is easily adaptable to a wide range of age and ability levels, and contains beautiful illustrations of deep-sea organisms that students will use as manipulatives. Tor's lesson plan most closely addresses middle school life science and high school biology, ecology and oceanography standards.

Shark Sanctuaries: Habitat and Climate Change

In this activity, designed by VIMS student Kaitlyn O'Brien, your students will utilize data collected from scientific shark surveys to explore the niches of multiple coastal shark species. Students will complete a simulated shark survey to determine a suitable habitat for each species. Students will then be challenged to hypothesize about how shark habitats may change in response to various climate change scenarios. Kaitlyn's lesson plan most closely addresses high school biology, environmental science and oceanography standards.

For complete lesson plans for these and all other VA SEA lessons, including a background PowerPoint, student/teacher handouts and answer keys, please visit the VA SEA lesson plan collection at www.vims.edu/vasea.

Is there a specific topic / SOL you could really use a lesson for? Our team would love to hear from you! We also invite you to attend our sessions during the upcoming VAST conference which will highlight lessons from our 2022 VA SEA cohort. Our 2023 VA SEA cohort is just beginning, so mark your calendars, the 2023 VA SEA Lesson Plan Expo will be held April 20, 2023.

Educator Awards - Call for Nominations

Rachel Riesbeck, Awards Committee Chair

MAMEA sponsors TWO annual awards to recognize outstanding efforts by marine educators in our region:

- One award honors a formal classroom teacher, K-16, primary through college;
- The other acknowledges an educator in an informal setting, such as museum, aquarium, zoo, science center staff or employees with government agencies.

Nominees should be individuals who:

- Have been a MAMEA member for at least one year
- Demonstrate a commitment to marine education
- Excel as educators
- Develop and use innovative marine education materials
- Share information with colleagues
- Promote marine education professionally



To see past recipients and to nominate an outstanding educator, check out the [Awards page](#). Nominations will be accepted through **September 15, 2022**. Winners will be announced at the MAMEA 2022 Annual Conference.



Descent: The Heroic Discovery of the Abyss

By Brad Matsen (2005, Pantheon Books, New York, NY)

Growing up in the 1960s, I was fascinated by the ocean and everything within it. I'm sure some of you can relate to the anticipation while waiting for Disney's "True-Life Adventures" documentaries to begin on Sunday evenings. This book takes me back to those days looking forward to any television show featuring my hero Jacques Cousteau or other ocean explorers.

Most of us have heard about Jacques Piccard and Don Walsh and their successful exploration of the Challenger Deep aboard the Trieste in 1960. Some theorize that the Trieste might not have been built if Beebe and Barton had not built and tested the bathysphere first!

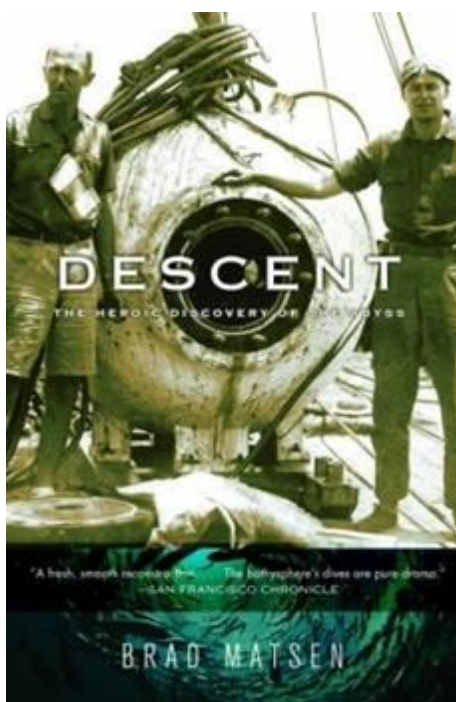
Descent: The Heroic Discovery of the Abyss came about when Brad Matsen learned from a friend that the original bathysphere – developed in 1930, 23 years before the Trieste – could be found outside exposed to the elements at Coney Island under the Cyclone roller coaster! From the book's prelude:

"Finding the bathysphere in an outdoor scrap yard under the Cyclone in Coney Island was like coming across a Mercury space capsule among rusting tools and nicked furniture at a flea market. William Beebe and Otis Barton were lowered on a cable into the Atlantic Ocean off Bermuda sixteen times between June 1930 and August 1934."

From his in-depth research, Matsen shares photos of Barton and Beebe, hand-written notes, and tons of previously unpublished material, so readers get the full story behind their relationship, the experiments, the expeditions, all during the extraordinary circumstances of the times.

Reading Descent took me back to the early days of ocean exploration and gave me an understanding of the risks that early explorers took to learn more about life (and everything else) under the sea, as well as the dangers that they experienced and the punishment they inflicted on the human body, both physical and mental, in the names of research and glory!

Terri Kirby-Hathaway



Please let me know if you read any of the books that I suggest in this column. I would like to know what you read and what you think of it! terrikhnc@gmail.com



Spyglass

Focus On:
Amber Ortiz -
University of Delaware Student
and
Member of the United States
Youth Advisory Council for the
United Nations Ocean Decade
Newark, Delaware/Greece

Perhaps Amber's story can inspire you or one of your students to jump on one of these opportunities.

Amber Ortiz is a freshman at the University of Delaware. Her intended major is Marine Science with a concentration in Marine Biology with a minor in Spanish. Amber is traveling to Greece this semester as a participant in the [World Scholars Program](#), which is run by UD and is meant to provide students with new cultural experiences and international relationships. Amber applied because she thinks living in one place and experiencing one culture can be limiting. She adds,

"I've always loved the idea of traveling, meeting new people, and learning from international experiences. My first trip to Greece is a pre-planned trip in partnership with the American College of Greece and is designed to allow students to experience education from different global perspectives. During my junior year of college, I'll have more control of my international experience as it relates more to my major. I'll be choosing a country that can provide me with both an internship related to marine biology and a school with classes to further my degree. I'm considering countries like Costa Rica, Ecuador, and Australia as they are marine biodiversity hotspots."

Amber joined the [United States Youth Advisory Council for the United Nations Ocean Decade](#) (USYAC UNOD) during its first cohort in November 2020. The Council's mission is to collaborate as representatives of our States and American Territories to further the goals of the UN Ocean Decade, while also serving their communities and advocating for effective change. This could mean educating more people about the UN Ocean Decade and involving more people in UNOD events, or advocating for their communities in political spaces during hill days on Capitol Hill in DC. During her time with USYAC UNOD Amber served as co-chair of the outreach committee that managed social media and virtual events. The committee hosted an online summit on June 4th, 2022 called "The Round Table Summit: A World Oceans Day Discussion" where they hosted discussions and workshops based around ocean and environmental science, and invited speakers from organizations like Women in Ocean Science, The Sunrise Movement, Fridays For Futures, and Protect Guam Water.

Amber recently went on an expedition to Alaska this August with an organization by the name of [Inspiring Girls Expeditions \(IGE\)](#). It's a National Science Foundation-funded initiative that was founded by glaciologist Erin Pettit. She spent 12 days in Alaska, 8 of which were spent camping in Kenai Fjords National Park. Amber said,

"It was an amazing experience, and I was surrounded by ambitious young women who wanted to learn, as well as experienced and intelligent mentors who wanted to teach. We had 4 mentors who specialized in oceanography and glaciology, geology and marine science, wildlife biology, and botany. Whatever questions we had about our surroundings were answered, and we were encouraged to ask more questions and really observe the environment. It was my first time camping. To jump into the deep end of the Alaskan wilderness was challenging to say the least, but it's something I'll carry with me forever."



The program accepts female-identifying students between the ages of 16 and 18, and [applications](#) open in late November and close in late January. Adults can apply for mentorship and leadership positions with IGE [here](#).

NMEA 2022 Recap

Tami Lunsford, MAMEA Chapter Representative to NMEA



The NMEA 2022 hybrid conference was a great experience! There were 147 participants in person and 87 virtual. From the welcome blessing from the Shinnecock Indian Nation to the keynotes from Tela Troge on the Shinnecock Kelp Farms to Lauren Rader, Meghan Marrero, and Diana Payne’s keynote on Ocean Literacy and the UN Decade of the Ocean, we started the conference strong on Sunday, July 10. The next three days were filled with a total of 139 speakers, including plenary speakers and panels, hybrid concurrent sessions, field trips, and excursions as a whole group around Long Island. Monday included a full day of a student conference and an amazing keynote by Maynard Okereke (Hip Hop Science) on improving STEM education and using social media to have a greater impact.

Hybrid is never easy, but the conference organizers worked hard to provide a great experience for both the in-person and virtual participants. Educators learned, met new people, and gained new perspectives. We are grateful for the opportunity they provided for all of us. We also want to send a special thanks to all our MAMEA members who presented!



MAMEA Chapter Meeting during the NMEA 2022 Conference. Note our virtual participants on the screen.



NMEA 2023 Strait to Sound: Gathering at the Salish Sea July 23-27, 2023

Next year’s National Marine Educators Association conference will be held in Bellingham, Washington, from July 23-27. The conference committee has already done a tremendous amount of work, so it promises to be an incredible week of professional development, camaraderie, and networking. See the [NMEA website](#) for more information as details are released in the coming months.



Celebrating “20 Years and Growing” with the NOAA B-WET Program!

2022 marks The NOAA Bay Watershed Education and Training (B-WET) program’s 20th anniversary! In the 20 years B-WET has been working around the country the program has been a powerful catalyst for environmental literacy. B-WET and the MWE framework support environmental education, foster student success and interest in learning, and empower students to implement environmental solutions in their own communities.

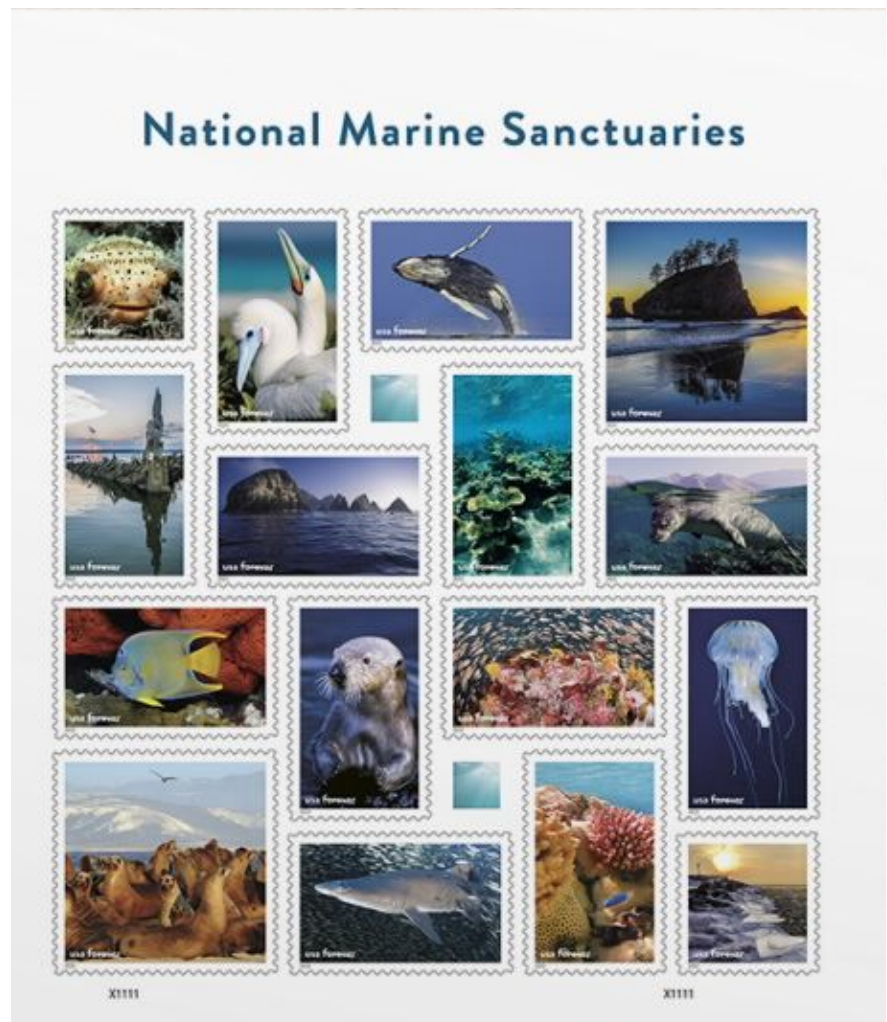
Visit the [B-WET anniversary website](#) for stories that illustrate how the B-WET program has impacted students, schools, and communities over the past 20 years. And look for B-WET posts highlighting #BWET20andGROWING on NOAA Education’s social media and [B-WET’s Facebook page](#).

More Marine-themed Stamps

The U.S. Postal Service is on a roll focusing on the marine environment. Most recently, they released a National Marine Sanctuaries stamp set. The set includes a stamp displaying an image from the Mallow’s Bay - Potomac River National Marine Sanctuary, located here in the Mid-Atlantic. (2nd from the top on the left)

According to the USPS, “U.S. National Marine Sanctuaries and marine national monuments have protected areas with special ecological, cultural, and historical significance for 50 years. The 16 stamps on the **National Marine Sanctuaries** pane showcase the abundant wildlife and diverse ecosystems that can be found throughout the National Marine Sanctuary System.”

More information on the stamp collection can be found on the [USPS website](#).



MAMEA 2022 Annual Conference Update

Emily Boyd, MAMEA President-Elect

Join your colleagues from across MAMEA's region in beautiful Pine Knoll Shores, NC from October 28-30th for the 2022 MAMEA Conference: *Riding Waves Into the Future*.

The MAMEA Annual Conference provides an opportunity for teachers and informal educators to connect with dedicated colleagues who share a common vision to improve education about all aspects of marine and aquatic environments.

Registration is now OPEN! Visit the Annual Conference [website](#) for the latest schedule, registration, and event highlights. Take advantage of early-bird savings! Regular pricing begins on October 1st.

Call the Inn at Pine Knoll Shores at 252-247-4155 to reserve your oceanfront hotel room by September 28th. Be sure to mention MAMEA for a discounted rate.

Scholarships Available to Attend the MAMEA Annual Conference

This year, MAMEA has three scholarships program to support educators wishing to attend the 2022 MAMEA Conference. For more information on the below scholarships, visit the [MAMEA Scholarship page](#).

Paul Standish Conference Scholarships

MAMEA is offering seven scholarships in this category. These scholarships are open to all members with at least 6 months membership at the time of application, or new members that have attended a MAMEA-sponsored state event by the time of application members. These scholarship funds will reimburse costs including registration, accommodations, and travel associated directly with attending the conference. All allowable costs, up to \$300, are reimbursed upon submission of valid receipts. **Deadline: September 16.**

Expanding Audiences Scholarship

The purpose of this scholarship is to increase number of MAMEA members that serve a diverse audience. The intent is to support qualified individuals to share their expertise, experiences and perspectives through active participation in MAMEA annual conferences and through continued participation within the organization. Any current MAMEA member may nominate an interested candidate for the scholarship. Self-nominations are also encouraged and welcome. These scholarship funds will reimburse costs associated with attending the MAMEA annual conference, including registration, accommodations, and travel associated directly with attending the conference. All allowable costs, up to \$400, will be reimbursed after the conference upon submission of valid receipts. **Deadline: September 16.**

North Carolina Local Scholarships

MAMEA is offering two scholarships specifically for formal and non-formal educators from North Carolina. Applicants for this scholarship DO NOT need to be current MAMEA members. These scholarship funds will reimburse costs for the conference registration only. **Deadline: September 30.**

Regional Updates

DELAWARE UPDATE

Tami Lunsford, DE Representative



Ocean Exploration Professional Development Recap

On June 30th, Delaware Sea Grant hosted an Ocean Exploration Teacher Professional at the Hugh R. Sharp Campus in Lewes, Delaware. Participants in the workshop engaged in several activities throughout the day that provided them firsthand experience working with University of Delaware researchers as well as training and resources to integrate marine science and ocean exploration into their classroom. The day began with an overview of Ocean Literacy and how Ocean Literacy intersects with the Next Generation Science Standards. Participants then engaged in activities on land and on the water. On the water, educators participated in a two and half hour research cruise aboard the University of Delaware research vessel the R/V Joanne Daiber. This research cruise was led by University of Delaware researchers Dr. Aaron Carlisle, Dr. Jon Cohen, and Dr. Andrew Wozniak. On land, Tami Lunsford, NOAA Facilitator, gave everyone an overview of NOAA Ocean Exploration education materials and engaged educators in a sample activity. The day ended with a tour of University of Delaware’s Robotics Discovery Labs.

All participants in the workshop received a one-year complimentary membership to both the Mid-Atlantic Marine Education Association and the National Marine Educators Association.

Delaware Sea Grant would like to thank the National Marine Sanctuaries Foundation and NOAA for supporting this workshop.

Delaware Coast Day

October 2, 2022

University of Delaware, Lewes Campus

After three years, Coast Day will return to the University of Delaware’s Hugh R. Sharp Campus in Lewes on October 2, 2022. Although it will look a little different to long-time attendees, many of your favorite activities will be back, and as always, Coast Day will provide fun for families while they learn about coastal, marine and environmental science.

More information is coming soon to the Delaware Coast Day [website](#).

SUN. OCT. 2, 2022

UNIVERSITY OF DELAWARE • HUGH R. SHARP CAMPUS

11 A.M. TO 3 P.M.

DECOASTDAY.ORG

Come and see
how we're helping
to build resilience
for the future.

UNIVERSITY OF DELAWARE
EARTH, OCEAN &
ENVIRONMENT

Regional Updates

Economic Value of the Delaware Inland Bays Assessment Now Available

The Delaware Center for the Inland Bays (CIB) and the Delaware Sea Grant College Program have completed a first-ever assessment of the Economic Value of the Delaware Inland Bays, which reports that the Inland Bays generate over \$4.5 billion in annual economic activity and support over 35,000 jobs. A key finding of the study is that the economic contributions are felt locally – 89 percent of the economic activity and 94 percent of the jobs occur in Sussex County.

The report was authored by Christian Hauser of Delaware Sea Grant and Christopher Bason of CIB. Key-Log Economics, an independent ecological and economic research firm based in Charlottesville, VA., performed the data analysis. Key-Log helps focus ecological and economic information on land use issues and ecosystem management. The full report is available [here](#).

Here are some of the highlights of the economic reporting:

- Economic activity within the Inland Bays study region provides tax revenue to federal, state, and county governments estimated at \$458 million.
- The Bays' thriving marina and boating economy contributes \$76 million in activity
- Accommodations, including at least 13 privately operated RV and tent campgrounds near the Inland Bays, contribute \$144 million in activity and over 1,000 jobs.
- The study cites research indicating that in 2019, 7.5 million visitors came to Sussex County and that tourism is now the fourth largest employer in the state.

MARYLAND/DC UPDATE

Lauren Fauth, MD/DC Representative

National Aquarium Conservation Events

Contact conserve@aquarium.org or 410-659-4249 for more information.

Masonville Cove Bio Blitz, Baltimore, MD

September 24, 9:00am-3:00pm

Celebrate Urban Wildlife Conservation Day at Masonville Cove! Discover the nation's first Urban Wildlife Refuge Partnership in the heart of Baltimore City. Masonville Cove has 70 acres of water and 54 acres of restored wetlands and nature trails. At the National Aquarium's ninth annual BioBlitz event, you will work with wildlife experts and community volunteers to find, identify and record plant and animal species at Masonville Cove.

Registering for the BioBlitz is preferred but not required. Those who register will receive a briefing packet with more information the week of the event. All volunteers under 18 must be supervised by an adult. Urban Wildlife Conservation Day is hosted by the Masonville Cove Partnership. In addition to the BioBlitz, activities will include a kayak tour, bird banding, monarch tagging and educational fun featuring Captain Trash Wheel. Those who wish to kayak must [register](#) in advance for the tour. More information available [here](#).

Masonville Cove Clean-Up, Baltimore, MD

October 8, 9:30am-12:30pm

Join your neighbors and community partners to clean up the stream and living shoreline that connect Brooklyn and Curtis Bay to Masonville Cove. Get outside and make a difference in your community while learning about the causes and effects of marine debris and how you can help! Debris data collected at this event will contribute to the [Ocean Conservancy's International Coastal Cleanup](#).

Volunteers must be at least 10 years old. All volunteers under 18 years old will need to be supervised by an adult. Please contact Swathi Ayyagari at sayyagari@aquarium.org or 410-659-9286 if you have questions or would like additional details. More information available [here](#).



Regional Updates

Dune Stabilization in Virginia Beach, VA

October 19-22, 9:00am-2:00pm

Join the National Aquarium Conservation team to restore and stabilize critical sand dunes in partnership with Naval Air Station Oceana. Sand dunes act as natural barriers, protecting land by preventing erosion and absorbing wave energy. Without this protection, soft coastline would rapidly disappear. We need your help to plant native dune grasses and restore habitat for local wildlife while protecting the shoreline.

Pre Registration is required for this event. Volunteers must be at least 10 years old. All volunteers under 18 years old will need to be supervised by an adult. Due to security restrictions of working on a naval base, personal information will be required as part of the registration process. Volunteers must register AND provide the necessary security information before 4 pm on September 28, 2022.

Visit [here](#) for more details.

**NOTE: Timing for this event is approximate and may change based on weather or the rate at which planting is completed.*

Fort McHenry Field Day, Baltimore, MD

November 5, 10:00am-1:00pm

Give a day for the Bay! Join the National Aquarium Conservation team for a field day at Fort McHenry National Monument and Historic Shrine. We will remove debris from the wetlands, maintain the pollinator and rain gardens and more. Data collected from this event will contribute to the [Ocean Conservancy's International Coastal Cleanup](#).

Participants must be at least 10 years old. All volunteers under 18 must be supervised by an adult.

Please contact conserve@aquaa.org or 410-659-4249 for more information or for safety questions.

Irvine Nature Center, Owings Mills, MD

2022-23 Eat, Drink & Learn Series

Introducing the 2022-23 Eat, Drink & Learn adult lecture series: RARE, THREATENED & ENDANGERED! This season's presentations include 7 convenings, with 7 guest experts from around the Mid-Atlantic, sharing 7 presentations that will educate and inspire.

Delicious dinner, signature drinks, expert environmental education, and lively discussions guaranteed – we hope you will join us! Fee per event or for the full series. Check the [website](#) for the whole series!

September 22, 6:30pm

Sea Turtle Rehabilitation at the National Aquarium: The Conservation Impact from Massachusetts to Florida; Presented by Caitlin Boverly, National Aquarium Animal Rescue Program

Signature Drink: Caretta Caretta Cocktail

November 17, 6:30pm

Nature Under Your Nose: My Journey to Increasing Representation in Outdoor Spaces; Presented by David Greaves, Photographer, Biologist, Remedial Project Manager, Founder with the Environmental Protection Agency and Nature Under Your Nose

Signature Drink: Aromatic Aperitifs



Smithsonian Environmental Research Center – Science To Go Professional Development

Saturday, Nov. 20, 10am-3pm – Exploring Plant Defenses and Build A Marsh

[Create your own Plant Defenses kit](#) – Virtual Training

Want to bring hands-on science to your classroom? Join us for training events just for teachers, inspired by our Science To Go family events. Each training will cover two different science activities, with two types of kits. During the events, we'll teach you how to use the kits in your classroom. (Recordings will be available too, if you can't make the live events.) To join, email SERCO Outreach@si.edu. You can build your own kits using common household materials. *Registration closes November 12 for the November 20th training.*



Regional Updates

NORTH CAROLINA UPDATE

Andy Gould, NC Representative

Hello from your North Carolina Representative!



I'm Andy Gould, and I'm stepping back on to the Board as the North Carolina Representative. I've been a member of MAMEA for many years and have served on the board in the Presidents chain and as the NC Representative in the past. I'm excited to be stepping back into this role, to serve all members and to share the wonderful aquatic education happening in NC! I am also the Education Curator at the North Carolina Aquarium at Fort Fisher. If you live or work in NC, please feel free to reach out to me at any time with updates, questions, suggestions, or just to say hello! I'd also like to say a big thank you to Brittany Pace for her leadership over the past several years. We wish her well in her new journey as the Outreach Specialist for the St. Andrew & St. Joseph Bays Estuary Program in Panama City, Florida.

NC Aquariums: Aquarium Scholars Grants open for 22-23 school year!



The Aquarium Scholars mini-grant program provides funds for Title I eligible schools in North Carolina to visit any of the three NC Aquariums or Jennette's Pier, participate in programs onsite, or schedule an Outreach or Virtual Program. Applicants can receive up to \$1,250 to support cost of bussing, substitutes, lunches, programs fees, or any other costs associated with programs and field trips. *Applications close Sept. 30, 2022.* Please visit Aquarium Scholars (www.ncaaquariums.com) for more information or to apply. Questions? Please contact Andy Gould, Education Curator, NC Aquarium at Fort Fisher, andy.gould@ncaaquariums.com.

Costa Rica Ecological Edventures Course

July 11-19, 2023

Explore the ecology of Costa Rica, earn continuing education credits, and help save sea turtles! Study sea turtles and collect data on them, hike through rainforests, restore mangroves, learn how to make chocolate, and so much more!

Immerse yourself in the diverse ecosystems in Costa Rica from both the water and on land. Hike on the highest point on the Pan-American Highway and search for endemic bird species. Spend time with the Indigenous Boruca people and learn about their history and traditions. Visit the Osa Peninsula and discover why this area is one of the 25 biodiversity hotspots of the world. Work alongside Latin American Sea Turtle (LAST) Association to help with sea turtle data collection.

The cost of the course covers ground transportation in Costa Rica, lodging in all areas of focus, including San Jose, Cerro de la Muerte and Osa Peninsula, all meals, activity and entrance fees, course instruction and materials, field instruction, and a dedicated local naturalist guide.* Participants earn 100 CEU credit hours through this course. Course Cost: \$1,995*

For more information or to register, please visit [Ecological Edventures](http://EcologicalEdventures.com), or contact Gail Lemiec, Unique Experiences Coordinator, NC Aquarium at Fort Fisher, gail.lemiec@ncaaquariums.com.



Regional Updates

Project WET Workshop at the NC Aquarium at Fort Fisher

Saturday, September 24th, 2022, 9:00 am - 4:00 pm

Project WET is an interdisciplinary water science and education program for formal and non-formal educators of K-12 students. The keystone of the Project WET program is the Project WET Curriculum & Activity Guide. The hands-on, supplemental activities are meaningful and relevant to children and are correlated to the 2013 North Carolina Essential Standards for Science, Social Studies and Health Education for Grades K-8 and for High School Earth/Environmental Science and Biology.



Water Education for Teachers

The Project WET Guide is only available through a 6-hour Project WET workshop. WET is a Criteria I workshop for the NC Environmental Education Certification and consists of 6 contact hours that may count towards CEUs for teachers. Cost: \$25.00. Register [here](#). For additional workshop information, call 910-772-0546. For assistance with registration, call 910-772-0542.

Sea Turtle Exploration Workshop at the NC Aquarium at Fort Fisher

Saturday, October 15th, 2022 9:00 AM – 4:00 PM

The North Carolina Aquarium at Fort Fisher presents Sea Turtle Exploration: a curriculum to help educators engage students in the fundamentals of STEAM through ready-to-use, standards based lesson plans and sea turtles. Join us for a hands-on teacher workshop guiding you through our new curriculum and website. Aligned with the new Common Core standards, your class will be able to “adopt” a turtle and learn about its care and growth. By adopting our sea turtle you will receive updates with information including the turtle’s current weight and length. Each class will also receive a certificate of participation.



By the end of the workshop, you will be familiar with the website and curriculum and how to implement the lessons in your own classroom. The workshop will include a behind the scenes tour to meet one of our sea turtles. This workshop will count towards NC Environmental Education Certification (Criteria I) and consists of 6 contact hours that may count toward CEUs for teachers. Cost: \$25.00. Register [here](#). For additional workshop information, call 910-772-0546. For assistance with registration, call 910-772-0542.

OWL – Outdoor Wonders and Learning Workshop at the NC Aquarium at Fort Fisher

Saturday, December 3rd, 2022, 9:00 AM - 4:00 PM



An OWL Workshop is the place for you if you are a classroom teacher, non-formal educator, or a preservice teacher looking to incorporate more Environmental Education into your lessons, incorporate grade level standards, or want resources to implement Science Methods. OWL (Outdoor Wonders and Learning) is an Environmental Education-based curriculum guide written and designed to match North Carolina Essential Standards for elementary grades. It focuses on Science, but also meets Math, Social Studies, and English-Language Arts when applicable. During the workshop, participants will experience OWL activities and learn more about how they work on their own, or as part of a larger lesson.

Educators gain skills and resources to facilitate engaging, inquiry-based lessons that meet NC Essential Standards and develop comfort with science and nature. OWL (Outdoor Wonders and Learning) is a NC Arboretum initiative. Cost: \$25.00. Register [here](#). For additional workshop information, call 910-772-0546. For assistance with registration, call 910-772-0542.

Regional Updates

NC Museum of Natural Sciences - SciREN Triangle and Educator Open House

Thursday, September 22, 2022 6:00pm - 8:30pm

We hope to return to an in-person gathering for our annual SciREN Triangle Networking Event and Museum Open House. Join us for this special information exchange night just for educators!

This live, in-person event will feature local scientists, Museum educators, and partner organizations showcasing their lesson plans and resources/opportunities in a relaxed environment. Learn about new virtual programs and field trips, outreach programs, and professional development opportunities. Through a partnership with SciREN (Scientific Research and Education Network), meet local scientists ready to distribute curriculum-centered lessons based on their current research! This is an excellent way to rejuvenate teaching methods, integrate relevant and real science into student learning, and reach out into the community.



WHAT TO EXPECT:

- Free, Lily’s pizza dinner and beverages courtesy of New Belgium Brewing
- Free, curriculum-correlated K–12 lesson plans (including digital access).
- Opportunities to talk 1:1 with scientists.
- Information about program offerings from the Museum and other partner organizations.
- Take a tour of the Museum’s galleries and exhibits.
- Learn about upcoming professional development opportunities

For additional information about this event, contact Megan Davis at megan.davis@naturalsciences.org or go to the SciREN Triangle and Educator Open House website [here](#).

VIRGINIA UPDATE

Tara Rudo, VA Representative

CBNERR Discovery Lab - Blue Crabs

September 20, 2022

The Discovery Lab series provides fun, family-friendly experiences and lifelong learning. Each lab focuses on a specific topic through a series of stations that provide hands-on activities for kids and adults. Participants look through microscopes, observe live animals, partake in crafts and games, and view research posters. Both VIMS faculty and students participate as speakers, sharing their research with the general public in an intimate setting.



More information can be found at: https://www.vims.edu/cbnerr/education/public_programs/index.php

First Landing State Park - Fall Fest

October 19, 2019. 2:00 p.m. - 6:00 p.m.

Enjoy natural surroundings while celebrating the fall season. Festivities will include hay rides, kids' crafts, games, s'mores, music and more. Food and beverage will be available for purchase. Festival is located at the courtyard at the Chesapeake Bay Center on the Bay Side of the park. No extra fee.



More information can be found at:

<https://www.dcr.virginia.gov/state-parks/park-event-info?id=FLI90012-00> or phone 757-412-2300 or email firstlanding@dcr.virginia.gov.

Member Benefits

MAMEA Members receive the following benefits:

- MASTHEAD quarterly newsletter
- Professional Development
 - Annual conference and mini events hosted in each of our states
- Funding
 - Scholarships to the annual conference
 - Grants for up to \$1,000 for marine-related classroom projects
- Recognition
 - Awards are given to members, honoring exemplary service as a Classroom Teacher or Informal Educator
- NMEA membership discount



Photo: Kathy Fuller

More information and deadlines are available on the MAMEA website www.mamea.org.

MAMEA Board Members

- Evan Beatty, President
- Emily (Peters) Boyd, President-Elect
- Lisa Tossey, Past President
- David Christopher, Secretary
- Jackie Takacs, Treasurer
- Tami Lunsford, Delaware Representative
- Lauren Fauth, Maryland/DC Representative
- Tara Rudo, Virginia Representative
- Andy Gould, North Carolina Representative
- Dawn Sherwood, Member-at-Large
- Kathy Fuller, Member-at-Large

The MAMEA Board meets twice a year. More information and contact details can be found [here](#).



MAMEA Committee Chairs

- Chris Petrone, Action Plan
- David Christopher, Archives
- Vacant, Auction
- Rachel Riesbeck, Awards
- Jackie Takacs, Conference Advisory
- Chris Petrone/Lisa Lawrence, Finance
- Dawn Sherwood, Grants
- Kathy Fuller, MASTHEAD
- Lisa Tossey, Mentoring
- Tami Lunsford, NMEA Representative
- Lisa Tossey, Nominating
- Vacant, Scholarship
- Lauren Fauth/Evan Beatty, Social Media
- David Christopher, Standing Rules
- Lisa Lawrence, Webkeeper