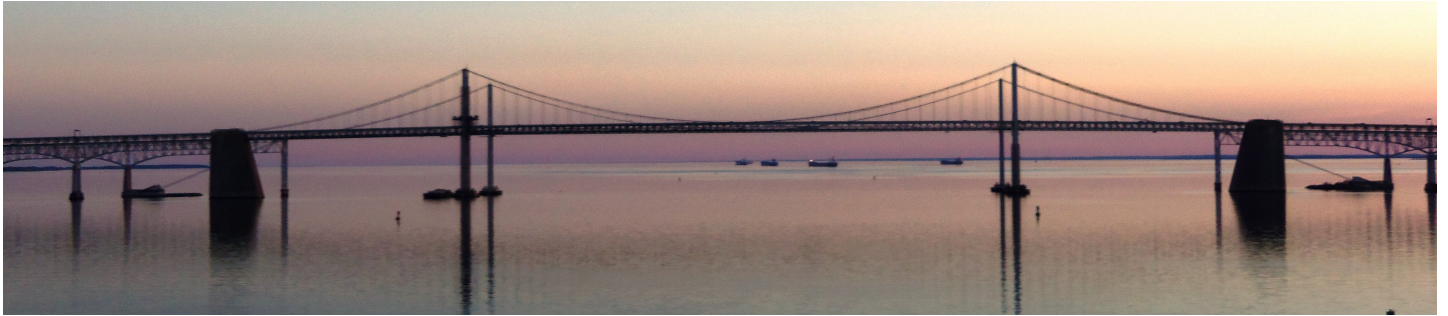




MASTHEAD

Quarterly Newsletter of the Mid-Atlantic Marine Education Association



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From the Captain's Quarters

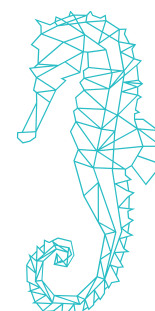
Happy World Ocean Month! What a difference a few months makes. COVID-19 vaccines are going into arms, mask mandates have loosened for those who are receiving them, and suddenly things are looking up for gathering together once again - both for programming and to see one another in three dimensions rather than trapped in 2D squares on screens.

As a result we're moving forward with plans to see everyone in person again for our annual conference this fall, which is scheduled for November 5-7 in Solomons Island, Maryland! We're excited about the possibility of seeing you all again for #MAMEA21, but if there's one thing this past year has taught us, it's to be nimble, so we're also exploring some options to provide parts of it virtually as well.

Speaking of virtual opportunities, be sure to check out the National Marine Educators Association (NMEA) conference next month. They have a great schedule planned, and you can also register to take part in a regional field trip organized by MAMEA members (COVID guidelines permitting) - a scenic paddle along the Broadkill River in Delaware, including a visit to the Edward H. McCabe Nature Preserve.

I hope you all have a safe, fun and relaxing summer - and don't forget to mark your calendars for #MAMEA21 this fall!

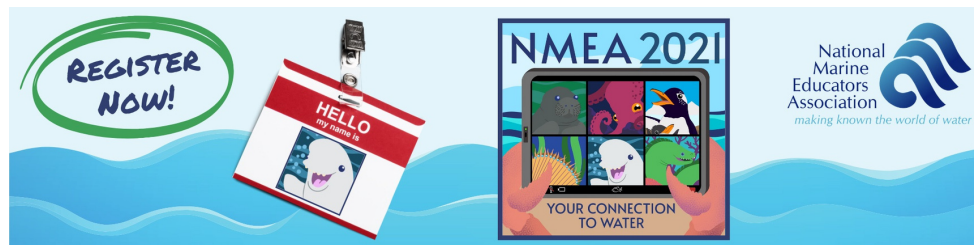
Lisa Tossey
MAMEA President



NMEA 2021 Virtual Conference

Sarah Nuss

NMEA Representative



Registration is now open for the 2021 National Marine Educators Association Virtual Conference, which will be held from July 14-17, 2021. The conference theme is “Your Connection to Water,” focusing on our personal connection to water, as well as the virtual connection to which we have all become so familiar. marine-ed.org/conference.

Registration is \$75 and includes three days of Plenary Speakers, Concurrent Sessions, and Networking, plus access to field trips sponsored by local chapters on July 17 (available at additional cost). The full conference schedule will be posted soon. Concurrent sessions this year are geared towards both formal and informal audiences, and follow themes such as:

- Connecting art, culture, and science
- Diversity, Equity, and Inclusion (DEI) in marine education
- Mindfulness and connecting to the environment
- Ocean / climate literacy principles
- Use of technology
- Youth development and leadership
- Current research and evaluation methods

NMEA Membership is required to register. This year, NMEA is pleased to offer a \$20 discount on membership to support those who have been impacted by the pandemic. Use the code OCEANDECADE when you join or renew to take advantage of this offer.

We recognize that 2020 has had unprecedented impacts on many of our members. Through the generosity of our sponsors, this year we are able to make the conference more accessible by offering a reduced conference registration rate of \$15 for those that apply for assistance. See the conference website for details: marine-ed.org/conference/2021/register

MAMEA at NMEA

Join us for the MAMEA board meeting at NMEA, taking place July 15th at 5:30pm! Zoom information will be sent out to NMEA attendees, and advertised at the conference.

Several of our MAMEA members may be presenting at the conference. Be sure to look for them, and try to attend their sessions!

MAMEA will also be hosting an in-person field trip in Delaware for NMEA attendees! Please sign up and join us!

NMEA Membership Discount

Can't attend the conference, but would still like to join NMEA? We are excited to introduce new options for membership support!

This has been a rough year for many, and we are hoping that a \$20 discount on your NMEA membership will help more of you renew your membership or recruit new members. Making known the world of water has never been more important, and educators need support and camaraderie more than ever. So, please take advantage of the discount if you need it and stay part of our community of educators! Use the code OCEANDECADE when you join or renew to take advantage of this offer through April 22, 2022! <https://www.marine-ed.org/membership>

We also started a new member sponsorship program! This year more than ever, we need to support each other so that we can be stronger together. If you love NMEA and would like to share the love, you can support a professional educator or student member with a membership donation or give membership as a gift to a friend or colleague. <https://www.marine-ed.org/donate>. If you love NMEA but need financial support to join or renew, you can request assistance on our website. <https://www.marine-ed.org/membership>

You can help the ripples of our membership spread into waves of education and action!

Spend World Ocean Day with NMEA!

NMEA 101 AND CONFERENCE UPDATE WEBINAR

Do you want to learn more about the National Marine Educators Association? Are you looking to become more active in the organization? Do you wonder what NMEA is doing to advance our mission around the world? Please join us to learn about NMEA's history, current projects, and future goals, and how you can become more involved.

Participants will also hear from the 2021 Conference Planning team and learn what to expect from NMEA's first ever virtual conference, which will focus on "Your Connection to Water!" NMEA Membership is required to register.

To register - <https://www.marine-ed.org/nmea-events/nmea-101-webinar>

NMEA-MAMEA Conference Field Trip

Tami Lunsford

Delaware State Representative

Want to come kayaking and socialize IN PERSON with other marine educators on July 17? As part of the NMEA Virtual Conference July 14-16, MAMEA is hosting a 2-hour relaxing kayak along the Broadkill River, checking out the MacCabe Nature Preserve, and appetizers and drinks on the outdoor patio at Irish Eyes Pub! We will meet at the Milton Memorial Park in Milton, DE at 12:30 pm on Saturday, July 17, to gather and load the kayaks from the boat launch.



We will kayak 1-3 pm (out and back) and then walk over to Irish Eyes for snacks (included) and drinks (on your own) from 3:30-5 pm. The cost is only \$30 for a single kayak and \$40 for a tandem kayak!

Membership in NMEA is required to participate. Membership discounts are available to MAMEA members, so contact Jackie for the discount code! Through June 15, registration in the NMEA conference is required to participate in the field trip. After June 15, if spaces are available, field trip participation will open to other NMEA members not able to attend the conference.

(Re)Save the Date! 2021 MAMEA Annual Conference

Evan Beatty
President-Elect

SAVE THE DATE

**MAMEA
2021**

**SOLOMONS
ISLAND MD.**

Friday Night Event at the
Calvert Marine Museum!

More Details Coming Soon!

**NOVEMBER 5-7,
2021**

MAMEA 2021 Board Elections

Carrie Carlin
Past President

Thank you to everyone who took the time to nominate someone to serve on the MAMEA Board. Below you will find the names of those individuals running. Voting will close on June 30 and results will be announced during the MAMEA Chapter meeting (July 15) at the annual NMEA Conference held virtually this year. New Board members for 2021-22 take office at the annual MAMEA Business Meeting during the 2021 MAMEA annual Conference.

- President-elect: Emily Peters
- Treasurer: Jackie Takacs
- Delaware Representative: Tami Lunsford
- Virginia Representative: Tara Rudo or Rachel Riesbeck Clark
- Member at large: Kathryn Fuller

If you have questions about the election process, please contact MAMEA Secretary David Christopher or Membership Chair Lisa Lawrence.

2021 MAMEA Election Profiles

President-Elect: Emily Peters



Emily Peters is a Senior Education Specialist at the National Aquarium, where she engages hundreds of students in education and youth development programming. She is motivated by her passions to connect others to the natural environment and inspire youth conservation leaders. Emily serves as project leader for the Youth Exhibit Guide program, which allows teens to explore careers in marine science. Previously, she served in AmeriCorps for the U.S. Fish & Wildlife Service, an educator for Pickering Creek Audubon Center, and Delaware State Parks. In her spare time, Emily enjoys hiking, camping, and spending time with family and friends.

Treasurer: Jackie Takacs

Jackie Takacs grew up the oldest of seven children on Long Island, NY, where she spent absolutely no time at the beach (seriously - who would take seven kids to the beach). It wasn't until she moved to the Eastern Shore Maryland in her senior year of high school that outdoor time became more about the environment and less about an athletic field. It was also about that time when her father suggested - after watching an MPT special - that she should become a "fish farmer" when she grew up.



As all girls of that age do - she ignored her father and went on to University to pursue a degree in Education. That pursuit went down a different path a few years later after working at a restaurant with aquaculture ponds and summer interning with University Extension faculty. Extension education - specifically in marine sciences and fisheries - became her passion (she thanks her dad). She currently holds a BS in Life Sciences (emphasis Biology) and an MS in Marine, Estuarine and Environmental Sciences from University of Maryland College Park.

Professionally Jackie holds the position she coveted in her application to graduate school - to one day be a faculty member with the University of Maryland Extension - Sea Grant Program. She has held that position now for 25 years and currently holds the title of Watershed Restoration Specialist. In her position, Jackie works in cooperation with other UME Extension agents, regional and departmental specialists, and various local, state and federal agencies in organizing, conducting, and evaluating programs in watershed management and restoration, watershed and environmental sciences education, and aquaculture within the Southern Maryland Region, the state of Maryland, and the Mid-Atlantic Region.

Jackie was lured into MAMEA (Mid-Atlantic Marine Education Association) by that smooth talker Adam Frederick - who not only convinced her to join but to step into the treasurer position. A position she has held for more years than she can remember and enjoys as much now as she did when she first took the position.

Delaware State Representative: Tami Lunsford



Tami Lunsford teaches biology, AP Biology, and Marine Science at Newark Charter High School in Delaware. She has lived most of her life in Delaware and graduated from UD... but she also enjoyed her short years in Hawaii and Monterey, California. In addition, she teaches workshops for NOAA’s Office of Ocean Exploration— currently online but hoping to travel and teach in person again soon!

Virginia State Representative: Tara Rudo and Rachel Riesbeck Clark

Rachel Riesbeck Clark has always enjoyed sharing her love of the oceans and decided to pursue that passion by working as a marine science educator for the Virginia Aquarium & Marine Science Center. Since 2008 she's worked with all ages providing marine science content in fun and exciting ways. She continued her interest in this field by getting her Masters in Teaching Biological Science from Miami. She enjoys connecting with other marine and environmental educators who share her interests and passion.



Tara Rudo is a Marine Education Specialist at the Chesapeake Bay National Estuarine Research Reserve- Virginia. Originally from North Carolina, she received her Bachelor's in Environmental Science from UNC- Greensboro and her Master's in Environmental Science from UNC-Wilmington during which she was an instructor at various summer camp programs. Tara branched away from her home state to complete an AmeriCorps service term in the education department at the Georgia Sea Turtle Center and spent some time as an Aquarist at the Greensboro Science Center caring for numerous aquatic species - her favorite being a Spotted Eagle Ray! During her free time, she loves to spend time outdoors kayaking, scuba diving, and climbing any lighthouse she can. Her passion is in educating the public and students on how they can become environmental stewards!



Member At-Large: Kathryn Fuller

For over 20 years Kathy Fuller, known as “Miss Kathy” to most of her students, has been engaging, educating, and inspiring youth and adults alike in the importance of marine education and environmental science. She holds a BS in Marine Biology and Secondary Teacher’s Certificate from the University of North Carolina Wilmington and a Master of Arts in Teaching Biological Sciences from Miami University. Her career has included positions with the North Carolina Aquariums, Horsehead Wetlands Center, Under the Sea, Inc., the National Aquarium, and Prince George’s County Public Schools where she works as an Environmental Resource Teacher at the William S. Schmidt Center. She approaches the various age groups at a level appropriate to their abilities and comprehension. She has demonstrated how she successfully translates her skills in the classroom to leadership of MAMEA as past MAMEA Maryland Representative, Secretary, President, and Chapter Representative to NMEA. She is currently conference co-chair for both the 2021 NMEA Virtual Conference and the 2021 MAMEA Conference, and she would love to lend a hand in the overall success of MAMEA.

MAMEA Featured Member

David Christopher
Secretary

Welcome to the very first MAMEA Featured Member column! In this column, we turn things over to one of our MAMEA members and have them tell us about their pathway to marine education, an overview of a program they have worked with, a discussion about a current marine or aquatic issue, or anything else they feel would be interesting!

MAMEA Featured Member: Kathy Fuller, Environmental Resource Teacher

Being involved with professional organizations has always been a passion of mine. I am a natural learner, always looking for new things to learn. Professional organizations like MAMEA have so many opportunities to learn, and the members are so much fun and helpful. As I moved through multiple leadership positions in MAMEA I also started working with the National Marine Educators Association (NMEA). As a committee co-chair of the NMEA Student Engagement Committee, I have had the pleasure of mentoring and engaging NMEA student members and organizing the NMEA Student Conference. I even went to the United Nations to represent NMEA for the Ocean Conference Planning Meeting in February 2020. When the decision was made to make the 2021 NMEA Conference virtual, I volunteered to serve as one of the conference co-chairs. I am excited to share that this year the NMEA Conference theme is "Your Connection to Water." This is a play on words, focusing on your personal connection to water as well as your virtual connection to teaching and learning that we all have become so familiar. I was inspired to create the theme after reading *Blue Mind* by Wallace J. Nichols. The book shares the science behind why we are so much happier, healthier, and better at what we do when we are near, in or on, or under the water. I know I am definitely happier and healthier when I am close to the water, and I am excited for our presenters to share their connections as well.

The 3-day, virtual conference (July 14th-16th) will include plenary speakers, concurrent sessions, networking and socializing opportunities, and don't forget about the auction! One plenary session includes a panel including Phillippe Cousteau and EarthEcho Global Youth Leadership Council Members speaking about young leaders in ocean conservation. Another plenary session, designated as our Stegner Lecture, includes several indigenous speakers who will speak about the connection between traditional knowledge and ocean literacy. Concurrent session themes include ocean and climate literacy principles, DEI (diversity, equity, and inclusion) in marine education, mindfulness and your connection to the environment, current research and evaluation methods, use of technology, connecting art, culture, and science, and youth development and leadership. We will have a Virtual Student Conference scheduled for July 15th for students ages 13 and up which includes a career panel, student presentations, and student member networking. On Saturday, July 17th NMEA Chapters are hosting in-person field trips (where regulations permit). Be sure to check out the field trip sponsored by MAMEA, and thank you to Tami Lunsford for hosting. I hope to see you all virtually or in-person soon! Let's keep learning MAMEA!

About the Author



Name: Kathy Fuller

Position/Title: Environmental Resource Teacher

Institution/Organization: Prince George's County Public Schools - William Schmidt Outdoor Education Center, Brandywine, Maryland

How long have you been a MAMEA member? Why did you join MAMEA? I joined MAMEA in 1996 while working at the NC Aquarium at Ft. Fisher. The staff there highly recommended joining. I have never regretted taking that suggestion.

What do you do for a living? I teach students about their connection to the local watershed, specifically their impact on the Chesapeake Bay. I love being outside with students (when there isn't a pandemic), and I feel that hands-on educational experiences, in the field, are most effective in teaching young people about the environment. I am fortunate to work in a school district that ensures that ALL students are able to have these experiences throughout their academic journey from Kindergarten to 12th grade.

What inspired you to go into marine education? Growing up close to the Chesapeake Bay, I always looked forward to opportunities to go paddling, crabbing, or just play in the water. I also spent a lot of time in Ocean City, MD, and visited the National Aquarium in Baltimore too many times to count. I loved talking to people about all of the amazing creatures I would find. When in college I faced the decision between research or education. A mentor of mine pointed out that I would have to pick on thing to focus on if I decided research. If I picked education, I would be able to learn a little about lots of things. I couldn't decide which one thing to focus on for research, and I knew how much I loved sharing what I learned with others. Teaching came pretty naturally.

What are some fun facts about yourself? I was not born in a US State. Most people guess Puerto Rico, but I was actually born in Washington, DC. My parents wanted name me Betsy Ross since I was born in the Nation's Capitol in July of the Bicentennial. Thank goodness they changed their mind!

MAMEA State Chapter Updates

Delaware Chapter

David Christopher
Secretary



#75MinuteScience: Life of a Scientist

Webinar: Thursday, June 3, 2021 - 4:00 PM - 5:15 PM EDT

Join Emmie Healey and Rachel Owrutsky in a discussion of a new outreach initiative from Share Your Skills, a Graduate Student Organization at the University of Delaware. Healey and Owrutsky are graduate students in the College of Earth Ocean and Environment. They will discuss their new outreach initiative, "Life of a Scientist."

Healey and Owrutsky will give a background on their research, the motivation for the "Life of a Scientist" project, and how the project could be used to inspire the next generation of scientists. They are looking for teachers who are interested in bringing real scientists into their classrooms.

To register go to <https://www.deseagrant.org/events-all/2021/6/3/75minutesci-scientist>

Delaware Sea Grant Engage and Exchange Workshops: Green Careers: Working for a Sustainable Future

Virtual Workshop: Wednesday, July 21, 2021 - 1:00 PM to 4:00 PM EDT

It is important to prepare today's students to meet future environmental challenges while preparing them for an ever-changing workforce.

Join Delaware Sea Grant as we explore green careers, which are jobs that support the economy and benefit the environment or conserve natural resources. In this workshop, participants will learn about green careers from people in the industry and will hear about the opportunities and challenges for green careers in Delaware. Participants will also explore the skills and competencies needed for students to take part in the future green workforce.

To register go to <https://www.deseagrant.org/events-all/2021/5/21/green-jobs>

Delaware Sea Grant Engage and Exchange Workshops: Oil Spills in the Delaware Estuary: What happens next?

Virtual Workshop: Wednesday, July 28, 2021 - 1:00 PM to 4:00 PM EDT

Over one million gallons of crude oil moves through Delaware Bay and River, every day. The estuary has suffered numerous spills over the past 50 years, harming or killing wildlife, poisoning the water, and wreaking havoc on commerce, tourism, and recreation.

Delaware Sea Grant has convened experts in oil spill response and impacts, to help participants understand the dangers of moving this vital resource through the Delaware Estuary, and how to help in the event of future oil spills. While geared toward teachers, this workshop will benefit anyone interested in learning more about oil transport and the potential risks to humans and the environment.

To register go to <https://www.deseagrant.org/events-all/2021/5/28/oil-spill>



Join educators from across the region at the virtual Mid-Atlantic Climate Change Education Conference (www.maccec.org), June 28 - July 1, 2021. Registration is NOW OPEN: www.maccec.org/register. Scholarships are available for Mid-Atlantic educators.

Last year's inaugural conference brought together 300 formal and informal educators and researchers to share the latest on climate change education in and out of the classroom. During MACCEC 2020 we learned how to engage all members of the community in climate change action and solutions. Participants left energized to empower youth, frame their climate change education on solutions, and bring attention to environmental justice issues.

The MACCEC Planning Committee designed the 2021 conference around suggestions from last year's participants to better serve the education community. Each afternoon of the 4-day conference will focus on a different theme: Climate Science, Climate Justice, Eclectic Climate Education, and Climate Workforce.

Participants will learn of new methods, resources, and tools for teaching climate change in the K-12 classroom, informal education programming, and community-based programming. Sessions will cover a wide range of strategies and lessons on how to best engage your audience on climate change and motivate them to action. Join us to learn how others have brought climate data into the classroom, recruit participants in community science projects, used role-playing games and other disciplines like art to engage new audiences, and introduced students to climate-ready jobs.

The conference keynote, Christina Kwauk of Brookings, will talk about how we have an opportunity and responsibility to build up and strengthen our climate education. Research has shown that 80% of the parents in the United States want climate change education in schools and that educating others on the causes and solutions could directly result in a decrease in carbon dioxide emissions. **Education is a powerful climate change solution!**

MACCEC isn't just for educators. Youth around the world have voiced their concerns and demands for change and many youth in our region are actively involved in climate change solutions. On the first day of the conference, June 28, middle and high school students will have the opportunity to connect with and hear from other students engaged in climate solutions then share their ideas with the larger conference community during a student panel. **Registration for middle and high school students is FREE and NOW OPEN: www.maccec.org/students.**

Please share the conference with students and colleagues so we can continue to grow our climate change education community!

Maryland Chapter

Lauren Fauth
Maryland State Representative

Professional Development from MD DNR

Mon July 26–Friday July 30; Orientation Date: Tuesday, July 13th at 4pm

Teachers on the Estuary: Resilient Communities and Coasts

How can we make curriculum come alive with real-time data and explore how human and environmental health are tied to resilience? During this dynamic five-day virtual program, you will explore the Chesapeake Bay's cultural coastal habitats and iconic communities by conducting field investigations with local scientists, community leaders, and educators from the Chesapeake Bay Foundation, National Oceanic Atmospheric Administration and Maryland's Chesapeake Bay National Estuarine Research Reserve. This course is designed to model a Meaningful Watershed Educational Experience through participant-driven field experiences and authentic research.

The course:

- Will include self-paced work and a live session.
- Participants are asked to complete the MWEE101 online course prior to the start of the in-person course
-

Fee: \$65. *A \$200 MWEE implementation support fund is available to each participant upon completion of all course requirements. *

Audience: Middle and High School Educators, community leaders, etc who work watershed wide.

Credit: 3 CPD credit in MD, 3 Act 48 hours in PA, and 15 contact hours in VA. Graduate Credit also available via a partnership with Mary Baldwin University.

To register, please visit: <https://secure.cbf.org/site/Ticketing?view=Tickets&id=103563>

Professional Development from CBF

June 28-July 2, 2021

Chesapeake Bay Ecosystem Ecology

Open to all educators watershedwide. How do the various ecosystems in the Chesapeake Bay watershed interact with, depend on, and connect with one another and how do humans influence the degradation and restoration of these systems? Participants will gain knowledge of the ecological roles of key Chesapeake Bay watershed species, from the mountains to the Bay, and the physical and chemical interactions of these organisms and their ecosystems. Exposure to combination of hands-on data collection and use of technology/public data records will help participants develop classroom and field investigations for their students, as well as skills to help students plan action projects.

Length & Location: The entire course will be conducted online over five days and will incorporate individual outdoor, inquiry-based investigations in your community.

Credit: Upon successful completion of all course requirements, Maryland teachers are eligible for 3 MSDE Continuing Professional Development credits, Virginia and Washington, D.C. teachers are eligible for documentation of 45 contact hours, Pennsylvania teachers are eligible for 50 Act 48 professional development hours.

Orientation Date: Tuesday, June 8th at 4 p.m.

July 12-16, 2021

Oysters, Chesapeake Gold Saving the Bay: Maryland

Open to all Maryland educators. How have oysters shaped the ecology, culture, and physical characteristics of the Chesapeake Bay region? Join us as we examine the role oysters have played throughout Maryland's history—from being a bountiful protein source to a scarce delicacy—and as we look to technological and economic advances to bring oysters as a food source, keystone species, and ecosystem engineer back into the spotlight. Resources will be provided for teachers to develop and implement inquiry-based curriculum and student action projects at their schools.

Length & Location: This course will take place primarily online over five days and if COVID-19 regulations allow, participants may have an opportunity to participate in an in-person field experience in Annapolis or Cambridge, Maryland.

Credit: Maryland teachers are eligible for 3 Continuing Professional Development (CPD) credits from MSDE.

Orientation Date: Tuesday, June 29th at 4 p.m.

July 19-23, 2021

Exploring Climate Change in the Bay

Open to all Maryland educators. How can you engage your students in investigating climate change impacts on the ecology of their community? Join the Chesapeake Bay Foundation as we investigate climate change impacts and ecosystem resilience locally and in the Bay. We will explore climate change storytelling through maps and artifacts in and around the Chesapeake Bay.

Length & Location: The course will be conducted online over five days and will incorporate individual outdoor, inquiry-based investigations in your neighborhood. In addition, if social distancing regulations allow, participants will be able to participate in facilitated local field experiences in the Annapolis area.

Credit: Upon successful completion of all course requirements, Maryland teachers are eligible for 3 MSDE Continuing Professional Development credits, Virginia and Washington, D.C. teachers are eligible for documentation of 45 contact hours, Pennsylvania teachers are eligible for 50 Act 48 professional development hours.

Orientation Date: Tuesday, July 13th at 4 p.m.

To register and see other opportunities from CBF, visit: <https://www.cbf.org/join-us/education-program/professional-learning/chesapeake-classrooms-summer-courses/open-courses.html>

Virginia Chapter

Cathy Roberts

Virginia State Representative

Virginia Association for Environmental Education VAAE

Virtual Mini Conference Series:

July 17 "Summer on the Shore"

Oct 23 "Fall in the Piedmont"

For more information visit vae.wildapricot.org

Mariners Museum: <https://marinersmuseum.org/>Online Programs

Maritime Mondays

Every Monday at 11 a.m. (ET) and 1 p.m. (ET)

FREE. Advance registration is required.

Fun for both children and caregivers, enjoy a story time adventure with Lauren Furey, manager of visitor engagement, and learn how we are all connected to each other!

A Furious Sky: The Five-Hundred-Year History of America's Hurricanes

September 24, 2020

Presented by best-selling author Eric Jay Dolin

View this lecture on our Mariners' Museum YouTube Channel

Labyrinth of Ice: The Triumphant and Tragic Greely Polar Expedition

October 22, 2020

Presented by author and journalist Buddy Levy

View this lecture on our Mariners' Museum YouTube Channel

Virginia Waterways and the Stories of Freedom Seekers in the Underground Railroad

February 4, 2021

Presented by Dr. Cassandra Newby-Alexander, author and dean of the College of Liberal Arts at Norfolk State University

View this lecture on our Mariners' Museum YouTube Channel

Guiding Lights: The Extraordinary Lives of Lighthouse Women

April 8, 2021

Shona Riddell, author

View this lecture on our Mariners' Museum YouTube Channel

Virginia State Parks

The Virginia park service also has a mobile education program called the Bay Experience Unit that works within the Chesapeake Bay Watershed area.

To learn about Virginia State Parks visit <https://www.dcr.virginia.gov/state-parks/>. You can also find them on FaceBook, Instagram, and Twitter. To learn more about the Bay Experience Unit contact sammy.zambon@dcr.virginia.gov

Virginia Association of Science Teachers

2021 Professional Development Institute

Virtual: November 16-18

PDI Plus: November 19-20

For more information Newsletter May 2021.pdf (wildapricot.org)

2021 Donna Sterling Institute

The Path Forward: Finding Smart Solutions in Energy and Climate Science Using Problem-based Learning

Synchronous sessions: October 9 and 16 (3 hours each) Asynchronous instruction: Oct 3-8 and 10-15 (~2 hours each) Register May 1 to October 1 Online

<https://vast.wildapricot.org/Registration-Information> It will be virtual this year.

VA SEA Program Adds 4th Cohort of Classroom Lessons Developed by Graduate Students

Bethany Smith, Marine Education Specialist

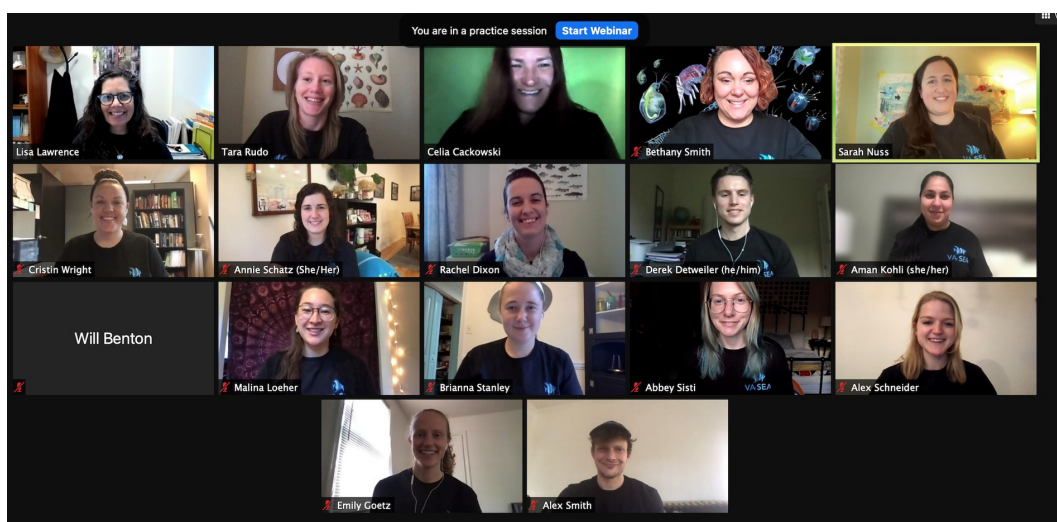
Virginia Institute of Marine Science - Marine Advisory Program

What do you get when you combine informal educators, classroom teachers, and science graduate students who are interested in developing their science communication skills? You get a collection of hands-on, classroom lesson plans steeped in current research that have been downloaded over 4500 times in over 100 countries. You get VA SEA!

Since 2015, the Virginia Scientists & Educators Alliance (VA SEA), which partners informal educators with graduate students and teachers, has been training graduate students from Virginia Sea Grant affiliated universities to translate their research into middle and high school lesson plans. Lessons are vetted by classroom teachers and then introduced to educators at an annual lesson plan expo each spring. Since 2015, the VA SEA program has trained 39 graduate students that have produced 44 lesson plans. The VA SEA program, developed by educators from the Chesapeake Bay National Estuarine Research Reserve in Virginia (CBNERRVA) and the Virginia Institute of Marine Science (VIMS) Marine Advisory Program, added 11 new scientist created lesson plans to its lesson plan collection this spring.

The 2021 cohort of VA SEA lessons cover topics such as biology, chemistry, geology, oceanography, environmental science, life science and mathematics and have attention grabbing titles such as "Case of the Stressed-out Larva", "Migrating to Motherhood", and "Sunny-Side-Up". Lesson plans including background PowerPoints are available for download from the VA SEA Lesson Plan collection found at www.vims.edu/vasea. Due to the COVID-19 pandemic, the 2020 and 2021 lessons also include short videos of the graduate student researchers explaining their lessons and associated activities.

Be sure to look for our 5th cohort lesson plan expo sometime in April 2022. We welcome teachers interested in classroom testing and providing feedback on draft versions of future VA SEA lessons. If interested, please contact Sarah Nuss (mcguire@vims.edu).



A screenshot from the 2021 VA SEA Virtual Lesson Plan Expo. Pictured are CBNERRVA and VIMS-MAP educators (top row) along with the 11 VIMS graduate students that participated in the 2020-2021 VA SEA 4th Cohort. Photo Credit: Tara Rudo, CBNERRVA

Marine Education Opportunities and Field Trips in Virginia Beach

*Alexis Rabon
Naturalist & Researcher
Rudee Tours*

Bottlenose dolphins, loggerhead sea turtles, cownose rays, and osprey... These are animals that may come to mind when considering marine life off of the coast of Virginia. Did you know that many other species such as humpback whales, harbor seals, hammerhead sharks, pilot whales, and shearwaters can also be found?



Here comes the sun: ocean sunfish, that is!

Experience the diversity our coastal and offshore waters have to offer during explorations that are conducted throughout the year! With trips offered seasonally catering to all interests and ages, look no further for your next family outing, marine education, or field trip opportunity!

The mission of Rudee Tours is to connect, respect, & protect. Whether it's fish, marine mammals, or the ocean's ecosystem, there is an overwhelming commitment to the animals & their homes. With over 40 years of experience operating eco-excursions in the area, each experience is tailored to the passengers with the highest level of safety in mind.

On-board biologists collect information about the environment and species observed during each trip. By choosing Rudee Tours, you're helping to protect and conserve the animals you love. Thank you for helping us to protect them, and we hope to "sea" you soon.

For information on trip offerings, please visit RudeeTours.com



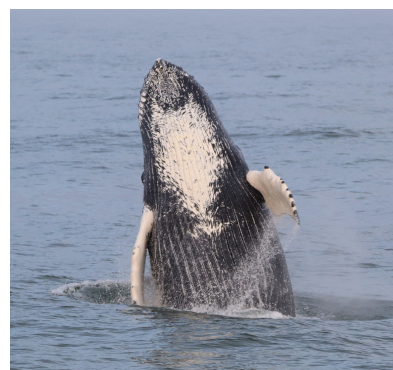
Squee alert! Bottlenose dolphin mom & calf spotted on a dolphin watching excursion.



Whoa! Yellow-nosed albatross as seen on a pelagic wildlife exploration.



Oh my manta! One of several manta rays seen feeding offshore.



Breaching humpback! Photo identification helps us track these individuals annually.

North Carolina Chapter

Brittany Pace
North Carolina State Representative

Summer Camps and Field Trips are back on the map! Many organizations are now in full camp mode and planning field trips for the next school year. We are excited to see in-person education happening!



Living Shoreline Update at Fort Caswell

The Living Shoreline Project is on its way this summer with scheduled field assessments and anticipated build for mid-August. If anyone is interested in volunteering to place bagged shell and plant marsh grass seedlings, let us know at bpace@fortcaswell.com.

Full-Time Internship available starting in August at Fort Caswell. Feel free to share with any recent marine biology or environmental science graduates looking to gain experience in the field. Our next Environmental Education & Stewardship Intern will be directly assisting with our new Living Shoreline Project, serving as an educator for Field Trips and Community Programs, caring for our tanks and animals, and more. Application Deadline: June 28th! For more info: <https://fortcaswell.com/internshipedu/>.

Karen Beasley Sea Turtle Rescue & Rehabilitation Center Tours



The mission of the Karen Beasley Sea Turtle Rescue and Rehabilitation Center is the conservation and preservation of all species of marine turtles, both in the water and on the beach. We accomplish this through the rescue, care, and release of sick and injured sea turtles, public education regarding the plight of sea turtles and the threat of their extinction, and learning opportunities for students of biology, wildlife conservation, and veterinary medicine from around the world. A nonprofit organization, we

view our work as a privilege and are honored to work with these magnificent creatures.

The Center is now open for tours, but you must purchase tickets online in advance. SUMMER hours: Mondays, Tuesdays, Thursdays, Fridays, and most Saturdays from 12:00 to 4:00pm (last tour at 4:00pm). Masks required for all humans over the age of 5. For more information: <https://www.seaturtlehospital.org/visit.html>

NOSB Regional Bowl Winners

David Christopher
Secretary

The National Ocean Sciences Bowl (NOSB) is a nationally recognized high school academic competition that provides an opportunity for students to test their knowledge of the marine sciences including biology, chemistry, physics, geology, marine history, policy and current events. NOSB was created in 1998 in honor of the International Year of the Ocean and has grown to include 25 regional competitions.

The MAMEA region home to three of these regional competitions. These regional bowls are the Chesapeake Bay Bowl hosted by George Mason University and Delaware Sea Grant/University of Delaware, the Blue Crab Bowl hosted by Old Dominion University and the Virginia Institute of Marine Science, and the Blue Heron Bowl hosted by the Coastal Studies Institute and East Carolina University. This year, due to the global pandemic, all three regional bowls held their competitions virtually for the very first time on Saturday, February 27, 2021.

MAMEA would like to congratulate the winning teams of each regional bowl. The teams will go on to compete in the NOSB Finals on May 15 and 16, 2021, which will be held virtually.

Chesapeake Bay Bowl

Winning Team: Thomas Jefferson High School for Science and Technology, Alexandria, VA
 Team Members: Gregory Byun, Christopher Kan, Edward Lee, Isaiah Wing, Alex Zhang
 Coach: Shawn Stickler

Blue Crab Bowl

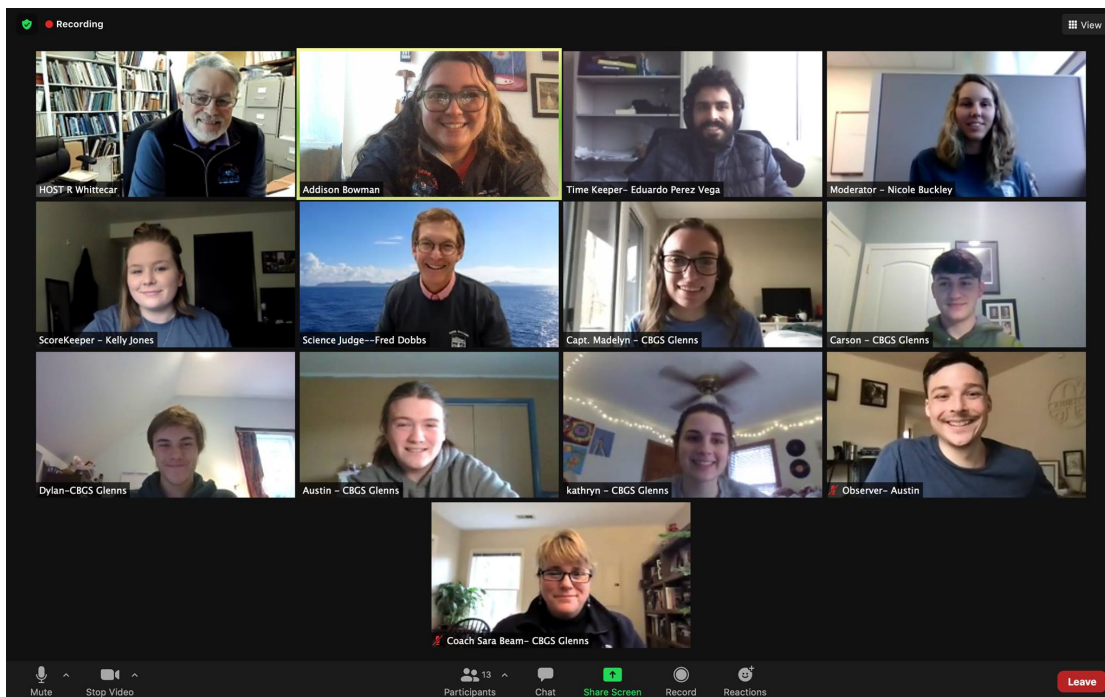
Winning Team: Chesapeake Bay Governor's School for Marine and Environmental Science, Glenss, VA
 Team Members: Austin Crocker, Carson Brown, Madelyn Junker, Kathryn Parnell, Dylan White
 Coach: Sara Chaves Beam

Blue Heron Bowl

Winning Team: Enloe High School, Raleigh, NC
 Team Members: Raghav Arun, Rohit Hari, Daniel Li, Aadhir Sandeep, Vedang Singhai,
 Coach: Samantha Chambers

Winning coaches will receive a FREE registration to the MAMEA Conference this fall. In addition, all first time regional bowl coaches will receive a complementary, one-year membership to MAMEA.

Congratulations to the winners of the regional NOSB Competitions!



Chesapeake Bay Governor's School for Marine and Environmental Science, Glenss, VA

Educator Awards – Call for Nominations!

Rachel Clark

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.

Eligibility Criteria

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 on www.mamea.org. Nominations will be accepted through September 15, 2021. Winners will be announced at the MAMEA 2021 Annual Conference.

Scholarships Available!

Lillie Reiter

Scholarship Committee Chair

Two scholarship applications for this year's conference are now open! One is coming soon!

1) Each year, Paul Standish Scholarships are available to MAMEA members who are interested in attending the annual conference but are in need of financial assistance. With these five scholarships, they cover up to \$300 of expenses directly related to participation in the conference and will be issued as a reimbursement after the conference upon submission of valid receipts. Applicants must have at least 6 months of membership in MAMEA prior to application or must have attended a MAMEA-sponsored state event by the time of application.

2) Each year, MAMEA also offers the Expanding Audiences Scholarship (EA) which strives to create a diverse audience. We offer one \$400 scholarship to attend the annual conference. Candidates cannot be a current or former MAMEA member however any current member may nominate an interested candidate for the scholarship. The EA scholarship will reimburse costs associated with attending the annual conference, including registration, accommodations, and travel associated directly with attending the conference.

To apply:

Find the application forms online at our website mamea.org/scholarship. Include an application and a letter of justification. The application deadline is September 4th, 2021. Recipients will be notified by September 18th, 2021. Send your application by e-mail to: reiterlb@gmail.com

Do YOU need money for a fabulous project idea?

Dawn Sherwood
Grants Committee Chair

MAMEA is looking for great ideas to support in its upcoming grant cycle (2021/2022). 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 at www.mamea.org/minigrant.html. To read about projects that received MAMEA support in the past see www.mamea.org/pastgrants.html.

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. Or, 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, 2021. Grants awards will be announced at the MAMEA conference in November 2021 and the funding period is 12 months - from November 2021 to October 2022, with no extensions.

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