

# MASTHEAD

Quarterly Newsletter of the Mid-Atlantic Marine Education Association

## In This Issue

Lifeline	2
MAMEA Grants Program	
MAMEA 2023 Call for Presenters	
MAMEA 2023 Conference	3
Conference Scholarships	
VA SEA Lesson Plan Log	4
MAMEA Awards	5
TKH Recommended Reading	
Spyglass - Bonehenge	6
NMEA Update	7
Regional Updates - Delaware	8-9
Regional Updates - Maryland/DC	10-11
Regional Updates - North Carolina	11-13
Regional Updates - Virginia	13-14
MAMEA Member Benefits	15
Board Members and Committee Chairs	

## Captain's Quarters

### Emily Boyd, MAMEA President

Dear MAMEA Members,

As we enter into the summer season, things are starting to get busy for our MAMEA members. Teachers are finishing out the school year with anticipation for a restful summer break and are seeking opportunities to refresh their marine science knowledge. Educators in non-profits are gearing up for their busiest season of the year running camps, outdoor experiences, events, and other summer programming.

There are also lots of opportunities to participate in professional development this season! The Mid-Atlantic Climate Change Education Conference is approaching soon on June 21st, and many of our State Reps are offering mini-conferences throughout the summer. We are also looking forward to connecting with our members at the National Marine Educators Association annual conference on July 23-27 in Bellingham, WA. Be sure to check out the sessions that our MAMEA members are presenting at the NMEA conference and connect with your fellow MAMEA members at the Chapter Meeting and beyond.

In business-related news, the MAMEA Board met back in March in a hybrid setting, with some joining virtually and others meeting in person at VIMS. A big thanks to Kristen Sharpe for hosting us! It was a full day of discussion, including updates from our state reps, creation of a new MAMEA website, and identifying action groups that will initiate next steps in our Strategic Plan. If you would like to learn more about Board activities, are interested in serving on a committee, or serving in a Board position, please feel free to reach out to me.

Don't forget to mark your calendar for the 2023 MAMEA Annual Conference, November 3-5 in Solomons, MD. The Conference Committee is working hard to get all of the conference details together. The Call for Presenters is now open, so be sure you submit your presentations by August 29th. Many fabulous invited speakers have already agreed to share, and we are looking forward to a Friday event at the Calvert Marine Museum. Scholarships are available, and the scholarship applications are open through September 1st.

With so many activities taking place this summer, don't forget to take a moment to enjoy yourself and relax. Enjoy the beautiful weather and summertime vibes. Hope to see everyone at one of our summer events!

*Emily Boyd, MAMEA President*

[eboyd@aqua.org](mailto:eboyd@aqua.org)

We have created a [LinkedIn group](#) for MAMEA members, to help expand networking and collaboration among member organizations and individuals! Please feel free to send a request to join, and we will add you! Please note that the group posts are "public" meaning that anyone interested in learning more about MAMEA will be able to see the group posts. However, posting information and commenting are restricted to members only (i.e. MAMEA members).





# Lifeline

Summer programs and summer vacations can be fun and exciting. Many take place in areas that are new, or at least less familiar, than our home base. As you plan and/or participate in these summer excursions, please stay COOL:

- **C Calling for help** - 911 may not be the best emergency number in some remote locations. Check with local authorities to see if there is a local emergency phone number if 911 fails. Consider a radio communication plan in areas without cellular service.
- **O Organisms** - Learn about local flora and fauna that might present a concern, i.e., venomous animals, poisonous plants.
- **O Overexertion** - While we all want to squeeze every moment out of every adventure, it is important to know your limits, and listen to your body. Relax, Recharge, and Rehydrate.
- **L Location** - Stay aware of your location: Route Numbers, Road Names, Exit Numbers, Mile Markers, Landmarks, etc. will make it quicker and easier for Rescue Companies to find you in the event of an emergency.

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 (2023/2024). 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](#).

**NEW:** The grant application will be digital! 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](mailto:dcsherwood@henrico.k12.va.us). Proposals are accepted throughout the year, but **the deadline for the 2023/24 cycle is September 15, 2023**. Grants awarded will be announced at the MAMEA conference in Fall 2023 and the funding period is 12 months – from November 2023 to October 2024, with no extensions.

## Call for Presenters Open for MAMEA 2023 Deadline: August 29, 2023

Are you interested in presenting at the 2023 MAMEA Conference? Please submit your concurrent presentation proposals by August 29th through [this Form](#). Presentation formats include 45-minute sessions, 10-minute lightning talks, and poster presentations. All presenters are required to register for the conference and join/renew their MAMEA membership to be eligible to present.



## MAMEA 2023 Annual Conference Update

*Lolita Kiorpes, MAMEA President-Elect*

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. We look forward to exploring the Solomons area with our Friday evening conference opening event at the Calvert Marine Museum and local field trips on Sunday.

The conference hotel is currently taking reservations through October. Contact the Hilton Garden Inn, 13100 Dowell Rd, Dowell, MD 20629 at 410-326-0303 or use [this](#) link to book. The Group Code is MAM.



### MAMEA 2023 Invited Speakers

[Dr. Kandis Boyd](#), Director of EPA's Chesapeake Bay Program

[Dr. Christine Knauss](#), Research Scientist, University of Maryland Center for Environmental Science (UMCES) Study on Plastics in the Environment

[Dr. Susan Langley](#), Maryland State Underwater Archaeologist and Adjunct Professor at St. Mary's College The History, Maritime Archaeology, and Anthropology of Mallow's Bay National Marine Sanctuary

[Jaimie Clare Testa](#), Faculty Research Assistant, UMCES / CBL Project Coordinator for [Dolphin Watch](#) / [Plastic Waste Education](#)

## Scholarships Available to Attend the MAMEA Annual Conference

*Erika Young, Scholarship Committee Chair*

This year, MAMEA has three scholarship programs to support educators wishing to attend the 2023 MAMEA Conference. Scholarship applications are available through an online form. Links to the specific scholarship applications are listed below.

### [Paul Standish Conference Scholarships](#)

MAMEA is offering five 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 1.**

### [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 1.**

### [Maryland Local Scholarships](#)

MAMEA is offering one scholarship specifically for formal and non-formal educators from Maryland. 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 1.**



## VA SEA Summer 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 65 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. The lessons specifically note alignment with Virginia Standards of Learning (SOLs), however they are also more broadly applicable to other state standards and match well with the NGSS and Ocean Literacy Principles. In this summer edition of the VA SEA Lesson Plan Log, we highlight three lessons from our most recent VA SEA cohort that are sure to make your summer sizzle.

### Bye Bye, Bycatch

In this activity, designed by VIMS student Derek Jackson, your students will use the engineering design process to build and test bycatch reduction devices made from simple classroom materials. By comparing their baseline (before) trawl to their test (after) trawls, students will be able to determine how effective their bycatch reduction device is. In the included PowerPoint, students learn about conservation engineering and how sustainable fisheries are managed for the success of both the target species and the fishing industry. Derek's lesson plan most closely addresses 7th grade life science standards, but the use of the engineering design process and simple classroom materials makes this lesson plan accessible to a wide range of ages and abilities.

### Mapping a Terrapin Town

In this activity, designed by VIMS graduate Anna Caputo, your students will explore diamondback terrapin habitat requirements, terrapin conservation, and land use planning. By role-playing city planners, students follow a small terrapin population through nesting, predation, poaching, habitat loss, and coastal development, all while trying to plan a Terrapin Town that meets both human development and conservation goals. In this Tetris-like game, students can trial different conservation strategies and role-play the effects of different types of coastal development on a model diamondback terrapin population, all while figuring out the best way for humans and nature to coexist. Anna's lesson plan most closely addresses 7th grade life science standards, and can easily be scaled up for high school environmental science courses.



### Watching Seagrass Breathe

In this activity, designed by VIMS student Alyson Hall, your students will investigate how seagrasses act as primary producers, why they are an important part of coastal and ocean ecosystems, and how scientists measure their rates of respiration. Students will role-play marine scientists as they view graphically simulated seagrass incubation experiments with the goal of counting the bubbles of oxygen produced. Using this data, students can then calculate the rate of primary production from their seagrass samples. Ultimately, students scale these rates up to estimate overall seagrass primary production in Chesapeake Bay in much the same way marine scientists do. Alyson's lesson plan most closely addresses high school biology, environmental science and oceanography standards.

Have you used any of the VA SEA resources in your classroom? Is there a specific topic/SOL you could really use a lesson for? Our team would love to hear from you! For complete lesson plans, including a background PowerPoint, student/teacher handouts and answer keys, please visit the [VA SEA lesson plan collection](#).

## 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, 2023**. Winners will be announced at the MAMEA 2023 Annual Conference.



### Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge, and the Teachings of Plants

By Robin Wall Kimmerer  
(2013, Milkweed Editions, Minneapolis, MN)

Before reading this book, I had heard about it from folks over the years. I wasn't sure what I expected, but once I finally purchased the book and started reading it, I enjoyed the experience immensely.

Author Robin Wall Kimmerer is a botanist by training. She is well versed in both scientific and traditional ecological knowledge, allowing her Native American culture and her science training to work together to share how our relationship to earth should work. Her nature writing is entertaining and easy to comprehend.

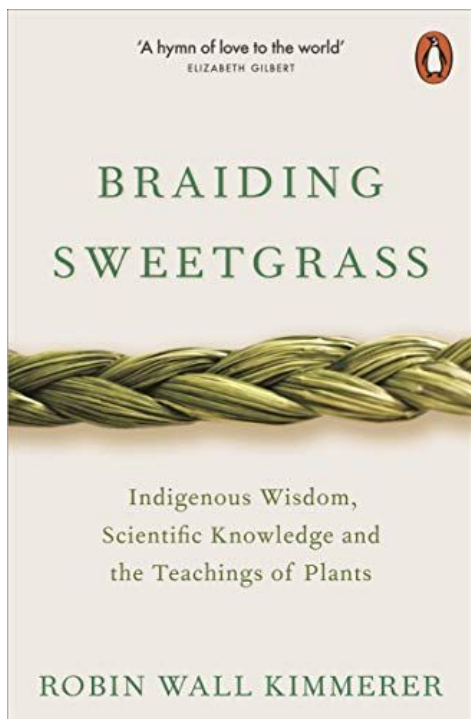
“To be native to a place we must learn to speak its language.”  
“Listening in wild places, we are audience to conversations in a language not our own.”

These two quotes from an early chapter spoke directly to me. We must learn to understand nature, by listening to her and learning her language. I'm preaching to the choir, but I think these lessons cannot be repeated too often!

After reading and learning from this book, I realized that during my career in marine education, as I was sharing a beach or a salt marsh with students, I was encouraging them to observe and understand those environments. As Kimmerer states, “I did learn another language in science, though, one of careful observation, an intimate vocabulary that names each little part. To name and describe you must first see, and science polishes the gift of seeing.”

Kimmerer reminds us “...that it is not the land that has been broken, but our relationship to it.” In the book's preface, she writes that the book is “...an intertwining of science, spirit, and story – old stories and new ones that can be medicine for our broken relationship with earth.” I challenge you to read this book, to learn how people and nature can be good medicine for each other, and to share this philosophy with your students, both young and old.

*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! [terrihnc@gmail.com](mailto:terrihnc@gmail.com)





# Spyglass

**Focus On:**  
**Bonehenge**  
**Whale Center**  
*Beaufort,*  
*North Carolina*



*Submitted by Amy Sauls, Member-at-Large*

[Bonehenge Whale Center](#) in Beaufort North Carolina is more of a research facility than a formal museum. It is truly unique. Why? Because it is full of Marine Mammal Bones! This building is an extension of the NC Maritime Museum on Front Street.

Keith Rittmaster has spent a lifetime studying marine mammals, and in the evolution of his life study came to collect and restore as many marine mammal skeletons as he could get. Mind you he simply took advantage of the marine mammal stranding network and his connection to collect or bury unfortunate stranded animals that did not, could not return to their natural habitat. What this does for him and his audience is opens up a whole world of learning about these organisms without interfering with them in their natural habitat. Do they have osteoporosis? Some seem to. Do they have a left or right side dominance like we do? Seems they do. And the list goes on.....



*Bottlenose dolphin skull with monofilament line still firmly entwined.*

He does have some vlogs on [YouTube](#) that anyone can watch and see a lot of what he has in the facility. He has limited visitation at this time because of limited staff, but he will certainly try to accommodate groups if he can (not too large, though). Limited planned visits of people 12 years and older are being accepted. They may eventually set up specific dates and times for tours, but until then email [bonehengewhalecenter@gmail.com](mailto:bonehengewhalecenter@gmail.com) or call 252-528-8607 to plan a visit.



*A view of the workshop from above (left) and close up of a Cuvier's beaked whale skeleton almost fully articulated (right).*

## NMEA 2023

*Tami Lunsford, MAMEA Chapter Representative to NMEA*

Registration is now open for the amazing 2023 NMEA conference at Western Washington University in Bellingham, Washington! The conference is being held both in-person and virtual. Most sessions are in-person and there will be one room of hybrid sessions. Sessions include posters, 15 minute lightning sessions, 45 minutes, or 90 minutes.

Registration prices start at \$50 for online participation and \$555 for full registration now (or \$650 on site). Daily rates are also available.

The overall schedule includes:

- o Sat, July 22 Sea Grant Meeting
- o Sun, July 23 NMEA Board Meeting/Conference Kick-off
- o Mon, July 24 – Sessions/Keynote/Chapter Meetings /Evening Picnic Event
- o Tuesday, July 25 – Sessions/Student Conference/Posters/Auction Event
- o Wed, July 26 – Sessions/Awards Lunch/Stegner Performance/Farewell Reception
- o Thurs, July 27 – Field Trips

On Monday, July 24, we will hold our MAMEA Chapter meeting in the afternoon. There will be a virtual participation option, so stay tuned for that link and exact timing! Tami will be gathering items for a MAMEA basket and other donations are welcome for the conference auction.

You can find more information, and details are being released regularly, on the [NMEA 2023 website](#).



## Support Fellow Mid-Atlantic Educators at NMEA 2023

Many educators from the Mid-Atlantic will be presenting at the NMEA 2023 Conference in Bellingham. If you are attending, be sure to support your fellow Mid-Atlantic Educators!

Here is a list of the presentations we were given. More details can be found on the [NMEA 2023 website](#).

- Elevating youth perspective on environmental issues through a new pilot program - Maggie Allen
- Microplastics on the Move! - David Christopher
- Pollution and Climate Change- Science, solutions, and art - Tami Lunsford
- Ocean Literacy in Action: Lessons from the Field for Incorporating Ocean Literacy into Your Work - Sarah Schoedinger, Alice Ryan, Diana Payne, Jude Apple, Melissa Rettig, and Susan Wood
- Aquaculture in Action: Rising with the Tide - Amy Lang, J. Adam Frederick, Jacqueline Takacs, and Chris Flight
- Integrating sustainable seafood topics into environmental education: Resources and best practices - Brianna Shaughnessy, Maggie Allen, and Emily Yam
- An Ocean of Opportunity: Engaging Students in the Blue Economy - Stacey Rafalowski and Sean Russell
- Create inspiring, learner-centered environmental investigations using NOAA's latest educator guide - Bronwen Rice, Jacqueline Laverdure, and Jaime Frungillo
- NOAA Education Community Town Hall- Andrea Sassard and Christos Michalopoulos



# Regional Updates

## DELAWARE UPDATE

Tami Lunsford, DE Representative



Delaware Inland Bays has multiple opportunities this summer. Click [here](#) for more information.

**DE Center for the Inland Bays**  
at the  
**Inland Bays Garden Center**  
Family Workshops for ages 5-12

Join the Delaware Center for the Inland Bays and the Inland Bays Garden Center for a series of fun interactive programs that focus on critters you can find in and around your garden! Each program will include a take-home project!

July 11th - Magnificent Monarchs  
July 18th - Who's Hiding in Plain Sight?  
July 25th - Inland Bays Birding: Feeder Frenzy

10am-12pm - Inland Bays Garden Center  
38320 Muddy Neck Rd, Frankford DE 19945

There is a suggested \$20 donation per group, all proceeds benefit the Delaware Center for the Inland Bays.

Questions? Contact Maddie Fox at [mfox@inlandbays.org](mailto:mfox@inlandbays.org)

**JOURNEY UP THE COAST**  
An Exploration of the MD Coastal Bays & the DE Inland Bays!

Open to Ages 6-12

Join the MD Coastal Bays Program and the DE Center for the Inland Bays as we explore 2 unique watersheds!

Learners will see the Bays and handle local bay critters, explore different ecosystems, and practice their investigation skills while making new friends!

**THURSDAY JULY 6TH, 2023\***  
Assateague Living Shoreline 9:30 am - 12 noon  
Berlin, MD

**THURSDAY JULY 13TH, 2023\***  
James Farm Ecological Preserve 9:30 am - 12 noon  
Ocean View, DE

\*Raindates are July 7th and July 14th respectively

Join us for a FREE "bay-hop" experience! Space is limited. Scan the QR code or click "REGISTER NOW" to register. Youth can attend one or both sessions! Visit either of our websites for more info or email Chandler Joiner at [cjoiner@mdcoastalbays.org](mailto:cjoiner@mdcoastalbays.org).

**FREE KID'S DAYS!**  
ALL SUMMER LONG  
ALL AGES WELCOME

Get closer to the Bays than ever before as we search in the shallow waters of the Indian River Bay for aquatic life!

**PROGRAMS EVERY WEEK!**

<b>Activities</b> ✓ Exploration ✓ Hands-on Learning ✓ Observation ✓ Connecting with Nature	<b>James Farm Ecological Preserve</b> Ocean View, DE
--	---

For more info:  
<https://www.inlandbays.org/events/>

Questions? Contact Maddie Fox at [mfox@inlandbays.org](mailto:mfox@inlandbays.org)

### Engage and Inspire Students: Integrating Standards and Environmental Literacy

Join Delaware Sea Grant, Delaware Nature Society, and Stroud Water Research Center for a one-day workshop to learn an exciting way to engage your students in local place-based problem-solving that integrates stewardship and civic action while meeting state standards for social studies, language arts, math, science, technology, and career awareness.

How is this all possible? Meaningful Watershed Education Experiences! Meaningful Watershed Educational Experiences (MWEEs) are learner-centered experiences focused on investigating issues in their local environment that lead students to informed action and civic engagement. In this workshop, participants will learn how MWEEs can enrich classroom instruction, connect students to their local community, and increase standards-based student achievement.

When and Where (pick one): PDMS Course # 31493

- Tuesday, June 27, 2023, 9 a.m. - 4:00 p.m.  
Bunker Hill Outdoor Classroom, 1070 Bunker Hill Rd, Middletown, DE 19709. Section # 72688
- Wednesday, June 28, 2023, 9 a.m. - 4:00 p.m.  
W.B. Simpson Elementary School, 5 Old North Rd, Camden, DE 19934. Section # 72690
- Thursday, June 29, 2023, 9 a.m. - 4:00 p.m.  
UD Lewes Campus, 1044 College Drive, Lewes, DE 19958. Section # 72691



Who: Classroom teachers, school administrators, and other education partners serving K-12 students in Delaware. Teachers and administrators from Caesar Rodney School District and Appoquinimink School District will receive priority enrollment.

Cost: FREE! Including lunch and refreshments for all participants. Participants from the following school districts, charter schools in those districts, or educators that serve those districts will receive a \$100 stipend for attending the workshop. Districts that can receive funding are Appoquinimink School District, Caesar Rodney School District, Delmar School District, Indian River School District, Lake Forest School District, Laurel School District, Seaford School District, and Woodbridge School District.

All participants are strongly encouraged to complete the FREE 3-hour MWEE IOI online course before they attend the in-person training.

Registration is REQUIRED. Delaware public school teachers should register using the PDMS section numbers above. All other educators please complete the [online registration form](#) to register, or contact David Christopher at [dmchrist@udel.edu](mailto:dmchrist@udel.edu).



## Regional Updates

### Integrating Meaningful Watershed Education Experiences into Your School or Education Center

August 15-17, 2023, 9:00am - 4:00pm

Allen A. Frear Elementary School, Camden, DE

Join Delaware Sea Grant, Delaware Nature Society, and Stroud Water Research Center for a three day professional development on Environmental Literacy and Meaningful Watershed Education Experiences (MWEE). Meaningful Watershed Educational Experiences (MWEEs) are learner-centered experiences that focus on investigations into the local environment that lead students to informed action and civic engagement.

In this workshop, participants will be given a background on the components of a MWEE and how MWEEs can be used to meet standards and schools while engaging in authentic field studies and community actions. Participants will also learn how to plan a MWEE, learn how to engage with community partners, and learn how to facilitate meaningful outdoor field investigations.

All participants are required to complete the FREE 3-hour MWEE 101 online course prior to their attendance of the in-person MWEE Ambassador Training.

*Where:* PDMS Course #31540

Allen A. Frear Elementary School, 238 Sorghum Mill Rd, Camden, DE 19934

*Who:* This workshop is open classroom teachers, school administrators, non-formal educators, and other education partners serving K-12 students in Delaware. Priority will be given to teachers and administrators from Caesar Rodney School District and Appoquinimink School District.

*Cost:* FREE! Lunch and refreshments are included for all participants on all days. Participants from Appoquinimink School District and Caesar Rodney School District or educators that serve those districts will receive a \$450 stipend for attending the workshop.

Registration is required. Delaware public school teachers should register using the PDMS section numbers above. All other educators please complete the [online registration form](#) to register, or David Christopher at [dmchrist@udel.edu](mailto:dmchrist@udel.edu).

These workshops are funded by NOAA's Chesapeake Bay Watershed Education and Training (BWET) Program. To learn more about BWET visit: [www.noaa.gov/office-education/bwet](http://www.noaa.gov/office-education/bwet).

### Mid-Atlantic Climate Change Education Conference

June 21 and 22, 2023; Virtual

Throughout history humans have advanced civilization through intrepid first steps in exploration, inquiry, and action. Their starting point was what was known, and together with inspiration and courage they journeyed into the unknown with a compass, stars and conviction for a better world to guide them. Join educators, students, and individuals as we navigate how to advance education for climate action in the Mid-Atlantic at the 4th annual virtual conference on June 21 and 22, 2023.

On June 21st, we will learn together how to:

**Teach Climate Action** in the classroom and outdoors,  
**Build Climate Resilience** in individuals and communities,  
**Explore Climate Resources** to support education and,  
 Support our students to **Star in Solutions**-focused workforce



Then on June 22nd, join participant-driven sessions where you can propose a climate education topic and then discuss and collaborate with other conference attendees.

In-person regional meet-ups are also being coordinated following the conference so we can have fun while getting to know others committed to this work. Information is coming soon!!

Registration is \$25. Learn more and sign-up now: [www.macce.org/conference](http://www.macce.org/conference)

## Regional Updates

### MARYLAND/DC UPDATE

*Mindy Quinn, MD/DC Representative*

#### Smithsonian Environmental Research Center (SERC) Summer Professional Development, Edgewater, MD



Are you a middle or high school classroom educator in the Chesapeake Bay region? Join one of our Environmental Literacy Educator Training (EnLET) workshops at Smithsonian Environmental Research Center this summer!

More details about the workshops are available on the flyer (right). Please note that the invasive species and wetlands workshops are intended for middle and high school educators. The genetic techniques workshop is geared towards high school educators. Please help spread the word with colleagues in the Chesapeake Bay region!

If you are interested in learning more, visit the [EnLET website](https://enlet.si.edu). Questions or interested in registering? Email Anna Davis at [davisam@si.edu](mailto:davisam@si.edu).

The flyer features the Smithsonian Environmental Research Center logo at the top. Below it, the title reads "Educator Workshops at Smithsonian Environmental Research Center". The main text invites educators to join professional development workshops. It lists three workshops: "June 28-30th Invasive Species of the Chesapeake Bay Region", "July 12th Genetic Techniques in Environmental Science", and "August 9-11th Wetlands of the Chesapeake Bay". A QR code is provided for more information, with the URL <https://s.si.edu/30eH9hb> below it. Contact information for Anna Davis is also included.

#### National Aquarium Summer Professional Development, Baltimore, MD

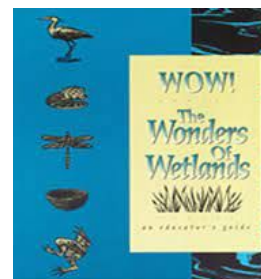
##### WOW! - The Wonders of Wetlands

**June 22, 2023, 9:30am-4:00pm**

This one-day workshop features hands-on, multi-disciplinary activities from WOW! The Wonders of Wetlands Curriculum Guide. All activities are designed to increase understanding of wetland ecology and issues, and to promote informed decision-making regarding wetlands. This workshop is appropriate for informal and formal educators of students in kindergarten through grade 12. Each participant will receive a free copy of WOW! The Wonders of Wetlands Curriculum Guide.

Cost: \$25 per person (Includes Aquarium admission and refreshments. Lunch is not included.)

Registration Deadline: June 16, 2023



##### Project WET 2.0

**August 16, 2023, 9:30am-4:00pm**



Engage in multi-disciplinary activities that promote awareness, appreciation, knowledge and management of water resources. This workshop highlights the new Project WET Curriculum and Activity Guide 2.0, which contains revised and updated activities from the original guide as well as many brand-new activities. The workshop is appropriate for informal and formal educators of students in kindergarten through grade 12. Participants receive a copy of the Project WET Curriculum and Activity Guide 2.0.

Cost: \$15 per person (Includes Aquarium admission and refreshments. Lunch is not included.)

Registration Deadline: August 7, 2023

*Maryland teachers that complete three of the following four teacher workshops at the National Aquarium or select other sites after October 23, 2012, may be eligible to receive 1 MSDE Professional Development Credit. The four eligible workshops are WOW! The Wonders of Wetlands, Project Learning Tree, Project WET and Project WILD.*

To register, please contact our reservation specialists at [reserve@aqua.org](mailto:reserve@aqua.org) or 410-576-3833.



## Regional Updates

### Project WILD

National Aquarium, Baltimore, MD

August 17, 2023, 9:30am-4:00pm

Engage in hands-on, inter-disciplinary activities focusing on wildlife, the environment and conservation. Activities are drawn from the popular Project WILD Curriculum and Activity Guide. This workshop is appropriate for informal and formal educators of students in kindergarten through grade 12. Participants receive copies of both the Project WILD Curriculum and Activity Guide and the WILD Aquatic Curriculum and Activity Guide.

Cost: \$15 per person (Includes Aquarium admission and refreshments. Lunch is not included.)

Registration Deadline: August 7, 2023

*Maryland teachers that complete three of the following four teacher workshops at the National Aquarium or select other sites after October 23, 2012, may be eligible to receive 1 MSDE Professional Development Credit. The four eligible workshops are WOW! The Wonders of Wetlands, Project Learning Tree, Project WET and Project WILD.*

To register, please contact our reservation specialists at [reserve@aqua.org](mailto:reserve@aqua.org) or 410-576-3833.



### Growing Up WILD Workshop

University of MD Extension Office, Frederick, MD

August 5, 2023, 9:00am - 12:00pm

Growing Up WILD is an early childhood education curriculum that builds on children's sense of wonder about nature and invites them to explore wildlife and the world around them. Through a wide range of activities and experiences, Growing Up WILD provides an early foundation for developing positive impressions about the natural world and lifelong social and academic skills. Participants will receive a certificate, a guide, and (if needed) approved credits. [Pre-registration is required](#)\*. This class is limited to 25 participants. Adults only. Fee: Free

\* Registration for this seminar begins 4 weeks prior to the event.



## NORTH CAROLINA UPDATE

*Andy Gould, NC Representative*

### Introduction to Paddling: Paddling Theory

Lake Johnson Park's Waterfront Center, Raleigh, NC

Saturday, Jul 8, 2023, 9:00-11:00am

These classes will introduce the basics of paddling in a calm setting and at a relaxed pace. Classes are split into two sections, Theory and Skills. Paddling Theory classes occur in the classroom where participants will learn the parts of both Kayaks and Standup Paddleboards, tips for trip preparation, and the environmental factors that will impact your paddling experience. In our skills classes, participants will learn paddling strokes, maneuverability, and self-rescue techniques. All equipment is provided. Advanced registration is required.



This program is open to participants ages 14+ and costs \$16 to attend. Participants under 16 must be registered with an adult. Additional dates may be available. Please check [Reclink.RaleighNC.gov](http://Reclink.RaleighNC.gov) for current schedule. Event Link: Register online [here](#).

## Regional Updates

### July 14th is Shark and Ray Awareness Day! How will you celebrate?

Sharks and Rays are amazing, and certainly deserving of celebration! As educators, we can also use the opportunity to share how important these animals are to marine food webs and ocean health. To help spread the most effective messages, take a look at this messaging tool kit from [AZA SAFE Sharks and Rays](#), and also this [Speaking Up for the Ocean Toolkit](#) from The Shark Trust. If you are planning your own Shark and Ray Awareness Day event, check out [these](#) resources to add to the fun.



Finally, if you are in the Wilmington, North Carolina area, join us on the evening of July 13 for “Suds for Sharks” at Waterman’s Brewing Company. This family friendly event will kick off with a kid focused band and activities, followed by a more mature presentation from Paul Cox, CEO of The Shark Trust, and ending with music and social time. This evening will kick off more shark and ray themed activities at the NC Aquarium at Fort Fisher on July 14. Thank you for loving and sharing these fintastic animals. Happy Shark and Ray Awareness Day!

### Project WET Educator Workshop Agape Center for Environmental Education, Fuquay-Varina, NC Saturday, Aug 5, 2023 9:00am-3:30pm

This Project WET workshop is geared toward teachers, scout leaders, and other youth leaders interested in teaching about water. The goal of Project WET is to facilitate and promote awareness, appreciation, knowledge, and stewardship of North Carolina’s water resources.

This workshop is fun, hands-on, action-packed, and informational. WET is for anyone interested in natural resources and environmental education and is especially useful for public and private school teachers in grades K-8. The workshop offers educators exciting new activities to use in teaching science, math, language arts, social studies, and environmental studies. Each participant will receive a copy of the Project WET Curriculum and Activity Guide.

Fee: \$15. To register: Go to [this link](#).

Location: Agape Center for Environmental Education, 1369 Tyler Dewar Lane, Fuquay-Varina, NC 27526





## Regional Updates

### BEETLES (Better Environmental Education, Teaching, Learning and Expertise Sharing) Workshop

Grandfather Mountain Stewardship Foundation, Linville, NC 28646

Saturday, Aug 26, 2023 9:00am-3:30pm

Hosted by Grandfather Mountain Education Specialist Cassie Petrilla and Interpretation & Education Programs Manager Lauren Farrell, BEETLES

(Better Environmental Education, Teaching, Learning and Expertise Sharing)



provides learning resources devoted to improving the quality of outdoor science education for field instructors, leaders and classroom teachers. The BEETLES learning sessions encourage educators to look at specific aspects of research-based science pedagogy and inspire deeper thought about individuals' teaching and learning.

Join Petrilla and Farrell at Grandfather Mountain to discuss two of the BEETLES professional learning session, "Making Observations" and "Questioning Strategies," and explore how to help students develop observational skills by encouraging curiosity and wonder, as well as how to use questions to encourage student exploration and discourse.

This workshop is free to attend, although advance registration is required. Limited to 25 participants. Registration opens here June 26. Attendees are asked to bring their own lunch, although there is a restaurant on site. [Register here](#) after June 26.

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

## VIRGINIA UPDATE

*Kristen Sharpe, VA Representative*

### Virginia Mini Event Availability Survey

We will be having a VA MAMEA mini event this summer, to go on a dolphin watching cruise with the Virginia Aquarium and Marine Science Center in Virginia Beach! Please fill out [this form](#) with your availability!



### Virginia Living Museum

The Virginia Living Museum has a plethora of event offerings for the public and members alike! Please visit the [Virginia Living Museum events page](#) to learn more!

### Virginia Aquarium and Marine Science Center

Visit the [Virginia Aquarium page](#) for information on upcoming featured events as well as offerings for schools and teachers!



### Nauticus

Visit the Nauticus [calendar of events](#) for information on upcoming featured events!



## Regional Updates

### Virginia Institute of Marine Science (VIMS)

#### *After Hours Lecture Series*

VIMS' monthly After Hours lecture series features educational talks given by scientists from VIMS and elsewhere as they explore hot issues facing the Chesapeake Bay and global ocean. Lectures are provided in a hybrid format: with both an in-person presentation as well as a live webinar. Reservations to this free public lecture series are required due to limited space. Topics for summer and fall 2023 will be updated as they are confirmed on the [After Hours calendar of events](#), and you can register using the links in the calendar.

#### *Speakers Bureau*

Interested in having a marine scientist meet with your students in your classroom or virtually? Planning a public lecture where you'd like a research perspective? VIMS scientists are available to speak to your club, business, community organization, school, or other venue. The topics offered are as diverse as VIMS' research! For a list of curated speakers and presentations, as well as to request a speaker, visit our [Speakers Bureau page](#).

#### *Group Tours*

Guided tours of VIMS are offered to private groups, by request and availability, throughout the year! If you have ever been curious as to what's happening in our labs and facilities, requesting a group tour is a great opportunity to learn more about our research as well as connect with our marine scientists! You can view tour offerings and more information, and request a tour, using our [Group Tours page](#).

#### *R/V Virginia Heads to Norfolk: Sept. 21 – 23!*

The R/V Virginia, VIMS' 93-foot flagship research vessel, will be coming down to port in Norfolk for a series of public and private tours and special events. More information will be coming, as it is confirmed and finalized, but you can plan to see our vessel off the port that weekend!

### Chesapeake Bay National Estuarine Research Reserve in Virginia

#### *Discovery Lab Series*

These free, family-friendly programs are provided each month by the [Chesapeake Bay National Estuarine Research Reserve \(CBNERR-VA\)](#) at VIMS. Designed with elementary-aged youth and their parents in mind, each lab focuses on a different topic related to the Chesapeake Bay and our local environment and includes exhibits, demonstrations, and hands-on activities as well as a short presentation by a VIMS scientist. Join us on Wednesday, April 19 from 6-8 PM for a lab focused on Horseshoe Crabs, featuring MAMEA member Anna Caputo as guest speaker! Register [here](#)!



#### *Resource Boxes*

Resource boxes are complete lesson plans including materials required that are available for teachers to check out and use in the classroom ([see flyer here](#)). Boxes are available free of cost, but require pick up and drop off at VIMS. [For more information about each individual box](#).

#### *Virtual Field Trip*

For those not near the coast, educators from CBNERR have created a [virtual field trip](#) to our site in Gloucester Point, VA where students can see how we typically sample the biodiversity in the shallow water environment using large nets! The field trip will also showcase our habitat cage activity, examining oyster reefs as habitats for a variety of animals and plants.



## 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](http://www.mamea.org).*

### MAMEA Board Members

- Emily Boyd, President
- Lolita Kiorpes, President-Elect
- Evan Beatty, Past President
- David Christopher, Secretary
- Jackie Takacs, Treasurer
- Tami Lunsford, Delaware Representative
- Mindy Quinn, Maryland/DC Representative
- Kristen Sharpe, Virginia Representative
- Andy Gould, North Carolina Representative
- Amy Sauls, 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
- Ruth Gourley/Lauren Fauth, Auction
- Rachel Riesbeck, Awards
- Jackie Takacs, Conference Advisory
- Chris Petrone/Lisa Lawrence, Finance
- Dawn Sherwood, Grants
- Kathy Fuller, MASTHEAD
- Evan Beatty, Mentoring
- Tami Lunsford, NMEA Representative
- Evan Beatty, Nominating
- Erika Young, Scholarship
- Lauren Fauth/Kristen Sharpe, Social Media
- David Christopher, Standing Rules
- Lisa Lawrence, Webkeeper