

MAMEA 2018 Annual Conference Schedule

| Time: | Space: | | | | |
|--|--|---|---|---|--|
| | Portsmouth Ballroom V | Commodore Room | Portsmouth Ballroom VI | Portsmouth Ballroom VII | Portsmouth Ballroom VIII |
| 9:15-10:15am | Plenary Speaker | | | | |
| 10:15- 10:30 am | Morning Snack Break | | | | |
| Concurrent Session I 10:30-11:15am | | Celia Cackowski Bridge DATA: Pteropods on Acid | Kimberly Williams Nuts and Bolts | Jake Vanzant Renovation= Innovation | Rachel Clark- Sea Turtle Rescue |
| Concurrent Session II 11:30 -12:15am | | Andrew Wilson Chesapeake Bay Enrichment through Virtual Field Trips | Sophia MacVittle Teachers on the Estuary: Differentiating curriculum after PD | Carol Hopper Brill MAMEA Educational Grants- Proposal Development Tips | Dawn Sherwood Man vs. Wild: Lessons on the Ocean and Human Impacts |
| 12: 30 – 2: 00pm | Lunch and Business Meeting | | | | |
| Concurrent Session III 2: 15 – 3:00pm | | Wayne Gilchrest Tank to Table for Teachers (T2T4T) | Kimberly Belfer Marine CSI in the Classroom | Lisa Tossey Spinning your science outreach digitally in 360° | Maggie Pletta Shrinkage, Not Just in Cold Water Anymore: An educational activity on how climate change is affecting bill size in birds |
| 3:00 – 3:30pm | Afternoon Snack Break/ Networking | | | | |
| Concurrent Session IV 3:30- 4:15pm | | Marlee Fuller-Morris River Resilience: Fish & Hawks | Susie Hill Explore the World of Underwater Robotics | Christopher Petrone What's in the Water? An inexpensive , upclose encounter with biofilms and zooplankton | Kristi Walters Ocean Adventures for All |
| 5:00 – 6:00pm | Marine Education Extravaganza (Sand Swap, Share-A-Thon, etc) | | | | |
| 6:00 – 7:00 pm | Silent Auction | | | | |
| 7:00- 10:00pm | Dinner and Live Auction | | | | |

Concurrent Session 1 (10:30-11:15 am)

Commodore Room

Title: *Bridge DATA: Pteropods on Acid*

Name: Celia Cackowski

Title: Marine Education Specialist

Org: Virginia Institute of Marine Science

Type: Hands-on workshop

Abstract: Ocean acidification is the ongoing decrease in the pH of the Earth's oceans, caused by the uptake of carbon dioxide (CO₂) from the atmosphere. In this Bridge activity, participants will learn the basic chemistry of ocean acidification and investigate whether it is having a negative impact on pteropod abundance along the Western Antarctic Peninsula.

Portsmouth Ballroom VI

Title: *Nuts & Bolts*

Name: Kimberly Williams

Title: 5th grade teacher

Org: White Oak Elementary School

Type: Lecture

Abstract: How do you start a comprehensive environmental school program? How do you use what you already have to build a successful program? How do you do all this without spending thousands of dollars? I'll share my successes and challenges while building a 7,000 square foot learning garden.

Portsmouth Ballroom VII

Title: *Renovation=Innovation*

Name: Jason Vanzant

Title: STEM instructor/ITF

Org: Bogue Sound Elementary/Carteret County Schools

Type: Hands on & showcase discussion

Abstract: Experience how grant funding is transforming a classroom into a STEM laboratory for elementary students. See how this school plans to integrate a marine exploratory tank into their STEM lab, as well as the outreach/partnerships they've developed with local community groups such as Carteret County Community College, NOAA, Duke Marine Lab, NC Coastal Federation, etc.

Portsmouth Ballroom VIII

Title: *Sea Turtle Rescue*

Name: Rachel Clark

Title: School and Youth Programs Specialist

Org: Virginia Aquarium & Marine Science Center

Type: Hands on workshop

Abstract: Explore this interactive, hands-on learning lab that puts students in the role of marine scientists. Using real data, methods, and outcomes, participants will model the process of responding to a stranded sea turtle.

Concurrent Session 2 (11:30-12:15 pm)**Commodore Room**

Title: *Chesapeake Bay Enrichment Through Virtual Field Trips*

Name: Andrew Wilson

Title: Director

Org: Glen Echo Park Aquarium

Type: Lecture

Abstract: Distance learning and enrichment opportunities for schools to teach students about the Chesapeake Bay.

Portsmouth Ballroom VI

Title: *Teachers on the Estuary: Differentiating Curriculum After PD*

Name: Sophia MacVittie

Title: Ms.

Org: Chesapeake Bay National Estuarine Research Reserve

Type: Hands-on workshop

Co-Presenters: Kelley Davis, Angela Cross, and Brent Horner

Abstract: Teacher professional development aims to provide resources and techniques for teacher use in classrooms. The 2018 Teachers on the Estuary workshop focused on differentiation across grade levels to increase marine science lesson accessibility for elementary students. This session will showcase how classroom teachers adapted resources for use in the classroom (Lessons provided).

Portsmouth Ballroom VII

Title: *MAMEA Educational Grants-Proposal Development Tips*

Name: Carol Hopper Brill

Title: Marine Educational Specialist

Org: VA Institute of Marine Science

Type: Lecture, Q&A

Abstract: Do you have a good idea or a program need? A MAMEA grant may be just what you need to help get your educational project off the drawing board and into reality, engaging students or fellow educators. Two grants, for up to \$1,000 each, are available annually: one for formal educators (classrooms k-16) and one for informal educators (museum, aquarium, zoo, science center, government agency staff). This session outlines projects and applicant eligibility requirements, reviews proposal and grantee expectations, and offers advice in presenting your project idea.

Portsmouth Ballroom VIII

Title: *Man vs. Wild: Lessons on the Ocean and Human Impacts*

Name: Dawn Sherwood

Title: Science Teacher

Org: Highland Springs High School

Type: Hands-on workshop

Abstract: Engage in thought-provoking, multidisciplinary activities to trace human population changes and impacts on the ocean over the past two centuries. Through simulations, role-playing and labs, students will be able to explore issues ranging from overfishing and acidification to pollution and the threats to marine biodiversity. Lesson plans provided.

Concurrent Session 3 (2:15-3:00pm)**Commodore Room**

Title: *Tank to Table for Teachers (T2T4T)*

Name: Wayne Gilchrest

Title: Science Specialist

Org: Hanover County Public Schools

Type: Hands-on workshop

Co-Presenter: Steve Oden

Abstract: Learn how to incorporate real world STEM experiences as you teach your students how to raise fish for food, fun, and fortune. Inexpensive activities and classroom setups will be demonstrated.

Portsmouth Ballroom VI

Title: *Marine CSI in the Classroom*

Name: Kimberly Belfer

Title: Director of Education

Org: Marine CSI: Coastal Science Investigations

Type: Hands-on workshop

Abstract: Marine CSI presents two hands-on lessons from their resource books (one from k-8 educators and one for high school educators). Each participant will receive a free book with the option of purchasing a second for their use.

Portsmouth Ballroom VII

Title: *Spinning your science outreach digitally in 360°*

Name: Lisa Tossey

Title: Multimedia Specialist, Research

Org: University of Delaware

Type: Lecture

Abstract: Creating immersive 360° environments to highlight an ecosystem to provide a virtual field trip isn't as hard - or expensive - as you might think! Learn basic principles for capturing quality images in 360° and basic digital video storytelling techniques for crafting supporting pieces for use in those environments.

Portsmouth Ballroom VIII

Title: *Shrinkage, Not Just in Cold Water Anymore: An educational activity on how climate change is affecting bill size in birds.*

Name: Maggie Pletta

Title: Education Coordinator

Org: DNREC, Delaware National Estuarine Research Reserve

Type: Hands-on workshop

Co-Presenter: Rebecca Vermeesch

Abstract: Participate in and provide feedback on a new interactive activity for middle and high school students to learn about climate change and the impacts it is having on a species (Red Knot) ability to forage for food and reproduce.

Concurrent Session 4 (3:30-4:15pm)

Commodore Room

Title: *What's in this water? An inexpensive, up-close encounter with biofilms and zooplankton*

Name: Christopher Petrone

Title: Director of Marine Advisory Service

Org: Delaware Sea Grant/ Univ. of Delaware

Type: Hands-on workshop

Co-Presenter: Adam Frederick

Abstract: Biofilms are the bacterial 'key' to starting a biodiverse underwater assemblage. Zooplankton are engaging ambassadors for many science topics. The hands-on session will evaluate biofilm communities grown on plexiglass discs, and have a look at fresh-caught zooplankton. We will also highlight cool digital microscopy techniques and 3D printed zooplankton!

Portsmouth Ballroom VI

Title: *Explore the World of Underwater Robotics*

Name: Susie Hill

Title: Education Specialist/Special Programs Manager

Org: Nauticus

Type: Hands-on workshop

Co-Presenters: Heather Mericle-Sherburne, Melinda Mericle

Abstract: Come join us for a fun-filled workshop about underwater robotics! We'll learn about the variety of underwater robotics and the careers that use them! We'll share information about how to participate in our local Mid-Atlantic Region ROV Competition! Best of all, we'll get to build and test model remotely operated vehicles (ROVs)!

Portsmouth Ballroom VII

Title: *River Resilience - Fish Hawks*

Name: Marlee Fuller-Morris

Title: Elizabeth River Project Educator

Org: The Elizabeth River Project

Type: Hands on workshop

Abstract: Using props and activities from the Elizabeth River Project Learning Barge, I will demonstrate the learning station titled "Fish Hawks", which focuses on identifying osprey, understanding how scientists track the effects of a warming climate on osprey migration, and how using renewable resources can help slow this warming.

Portsmouth Ballroom VIII

Title: *Ocean Adventures for All*

Name: Kristi Walters

Title: Owner/Educator

Org: Big Bear Science

Type: Hands on workshop

Abstract: Fun, interactive and hands on preschool programming adapted for people with special needs. Perfect for informal educators looking to reach new audiences.