From the Captain's Quarters

Happy Back-to-School, MAMEA!

I hope everyone has had a wonderful summer break! Formal educators (like me), I hope you are well rested and set for a new school year and informal educators are looking forward to a little break as students head back to school! I was unfortunately unable to attend NMEA, but heard wonderful reports from the MAMEA members able to attend. I did survive taking students and faculty to Europe in a whirlwind 12-day journey at the end of July. I am sure many of the reports will discuss their adventures at NMEA. I also want to congratulate Past President Sarah (McGuire) Nuss on a safe and healthy delivery of twins!

All members, please check out your state representative reports and any upcoming activities. Speaking of activities, our annual MAMEA conference is November 6th-8th in downtown Wilmington, NC. Please mark your calendars as we eagerly await registration information for this conference.

Good luck to a successful start of a new school year and see you in North Carolina!

Dawn Sherwood
MAMEA President
State Chapter Updates

Delaware

Arts in the Estuary

Enjoy various artisans, performers, and authors as the Delaware National Estuarine Research Reserve joins with the John Dickinson Plantation to bring you a cultural view of the estuary! Try your hand at some artwork, buy some native plants from the Delaware Native Plant Society during the native plant sale as you look at your landscaping artistically, and learn tips from local and regional artists. This event is open to the public and admission is free.

WHEN: September 26th

COST: Free and open to the public

For more information, please visit www.dnrec.delaware.gov/coastal/DNERR/Pages/DNERR-Arts-in-the-Estuary.aspx.

Children in Nature

This October, Delawarens statewide will be celebrating Children in Nature Month. The Delaware Children in Nature Coalition will be partnering with organizations across the state to bring you fun-filled family activities. Throughout the month, the CIN Coalition encourages you to get outdoors in school and at home via hiking, programming, events, festivals, field trips, or anything else you can think of to engage your entire family with the outdoors. For more information, please visit www.delawarecin.org.

39th Annual Coast Day

Coast Day highlights how University of Delaware scientists, staff, and students are improving their understanding of ocean environments and serving

continued on page 5
Elections

The Nominating Committee is pleased to announce the results of the 2015/16 MAMEA Board. Congratulations to the following newly elected, and re-elected, Board members:

- President Elect: Chris Petrone, Delaware Sea Grant
- Secretary: Carol Hopper Brill, Virginia Institute of Marine Science
- Maryland State Representative: Maria Madero, National Aquarium in Baltimore
- North Carolina State Representative: Pat Curley, The Science House at North Carolina State University

Thank you to all the candidates who were willing to serve. And, thank you to all of our members who participated in the election process. If you are interested in joining one of our many committees and contributing your time and talents to MAMEA. Find out more at http://www.mamea.org/committees.html.

MAMEA Board Members Moving Up!

Serving on the MAMEA Board can be a stepping stone for impact on the national stage. Many MAMEA members have gone on to serve on the NMEA Board after honing their skills at our Chapter level. This year, several talented and hard-working MAMEA members have roles on the NMEA Board:

- **David Christopher**, a past MAMEA Secretary, President and NMEA Representative becomes a member of the NMEA Board. David is Education Manager at the National Aquarium.
- **Adam Frederick**, a past Action Plan Committee Chair and MAMEA President, is now NMEA Membership Secretary. Adam is also affiliated with the NMEA National Office which operates from Maryland Sea Grant where he is Assistant Director for Education.
- **Tami Lunsford**, who has served as Delaware Representative and MAMEA President and NMEA Representative, steps up as NMEA President Elect. Tami is a teacher at Newark Charter Jr/Sr High School in Newark, DE.
- **Jackie Takacs**, our long-time MAMEA Treasurer, will share her talents as NMEA Treasurer (while still serving MAMEA). Jackie works for University of Maryland Sea Grant Extension.
- **Lisa Tossey** is NMEA Social Media Community Manager & Editor.

New School Year, New Project Ideas, Need Funding? MAMEA Grant Deadline September 15th!

Your creative juices have been cranking all summer, right? And, with the new school year coming, you’re all fired up to launch a new project. But, where do you get the funding? Maybe MAMEA can help! If you have a great idea for an educational project that benefits students or educators, a MAMEA grant may be just what you need to get it off the ground! But, you want to act quickly – the deadline for the 2015/16 MAMEA Grant cycle applications is September 15th! And to be eligible, applicants must be current MAMEA members with at least one year’s membership. Each year, two grants of up to $1,000 each are available: One for formal educators (classrooms, K-16); and one for informal educators (museum, aquarium, zoo, science center, government agency staff). Projects must focus on marine or aquatic topics.

Review the grant application requirements and grantee responsibilities described on the MAMEA Grants page at www.mamea.org/minigrant.html. You can read about projects that have received MAMEA support in the past - on the website at www.mamea.org/pastgrants.html. Contact the Grants Committee Chair, Carol Hopper Brill at chopper@vims.edu if you have further questions. Grant awards will be announced at the MAMEA Business Meeting in Fall 2015, and the funding period is 12 months, from November 1st to October 31st.
New Outdoor Lab:
Worcester Technical High School (MD)

Scott J. Hunter with Worcester Technical High School is happy and eager to share with you the awesome new outdoor lab we have created at Worcester Technical High School for the Environmental and Marine Sciences curricula's. The students have been marking coordinates on the research pond using geometric concepts. This coming school year, students will use depth finder soundings to create their own sea floor mapping of the entire pond. Future students will conduct ecological studies in isolated regions of the pond.

Students doing work out on the pond in the unique sea worthy research vessels.
coastal communities. Coast Day attendees can interact with researchers, tour ships, try hands-on activities, and attend presentations on a range of topics. Family-friendly activities include an event-wide treasure hunt for answers to questions about the environment and Coast Day exhibits. Children can meet sea-dwelling animals such as horseshoe crabs and dogfish sharks at the critter touch tanks. Everyone can enjoy live music, vendor displays, and seafood favorites showcased by local chefs at the Crab Cake Cook-Off, and the Seafood Chowder Challenge.

WHERE: University of Delaware Hugh R. Sharp Campus, Lewes, DE
WHEN: October 5th
COST: Free
For more information, please visit http://www.decoastday.org.

Blackbird Creek Fall Festival
A celebration that started in 2007 and features traditional crafts and demonstrations, hands-on learning, lively music, kids activities, and lots of fun along the beautiful Blackbird Creek in Townsend, DE!
WHEN: October 17th
COST: Free
For more information, please visit www.dnrec.delaware.gov/coastal/DNERR/Pages/DNERRBlackbirdCreekFallFestival.aspx.

Maryland

National Aquarium Teacher Orientation
Please join staff at the National Aquarium in Baltimore, MD for a free teacher orientation to make the most of your field trips here! This one hour teacher orientation includes the following:
- Information about the Aquarium's animal collection
- An insider's look at new exhibits
- Chaperone tips

For more information or to register, please visit http://www.aqua.org/learn/teacher-programs/teacher-orientation.

Teacher Workshops at the National Aquarium
The staff at the National Aquarium has some exciting professional development opportunities for educators! Interested in attending hands-on teacher workshops or getting more materials for your classroom? If you answered "yes," please visit http://www.aqua.org/learn/teacher-programs/teacher-workshops for dates and times. Reservations are accepted by phone at 410-576-3833.

Tots and Tales with the National Aquarium
Bring your little ones Wednesdays in September and October at 10:30 am to learn about aquatic treasures through story time, songs, games, crafts, and up close animal encounters! For more information, please visit at http://www.aqua.org/visit/baltimore/calendar/tots-and-tales.

District of Columbia

The Smithsonian Celebrates National Fossil Day at The National Museum of Natural History!
The Smithsonian's National Museum of Natural History will host the National Park Service's 2015 National Fossil Day Celebration in DC with an all-day family festival. Visitors will be able to participate in family-friendly, fossil-themed activities presented by volunteers and fossil scientists who work with the museum, the National Park Service and other partner agencies and organizations.

Visitors will be able to explore the exhibition “Last Amer-
State Chapter Updates

continued from page 5

can Dinosaurs: Discovering a Lost World” (2nd floor), and see ongoing research and fossil preparation in the FossiLab. Activities in Q?rius, the museum’s education center, will include opportunities to handle fossils and talk to fossil scientists about what fossils can teach us about life on Earth.
WHEN: October 10th
COST: Free
For more information, please visit http://naturalhistory.si.edu/fossil-hall/.

Bring Your Class to the Smithsonian’s National Museum of Natural History!
Register for an interactive, facilitated, and engaging school program in Q?rius (grades 6-12) or Q?rius Jr. (grades K-5). These great additions to your Natural History Museum field trip are free and encompass museum research topics including ocean biodiversity, ecosystems, anthropology, geology, and paleontology.

To browse school programs, please visit https://qrius.si.edu/teachers/school-programs-at-museum/#qschoolprograms. To browse the Q?rius for Teachers site, please visit https://qrius.si.edu/teachers#/-1/.

Bring a Smithsonian Scientist into Your Classroom
The 25-minute program features the research and personalities of the Smithsonian’s National Museum of Natural History, providing your students with positive STEM role models, information about science careers and pathways, and more!

Smithsonian Science How delivers real-world science through free, live webcasts and teaching resources. For more information, please visit http://qrius.si.edu/webcast#.VdTntixVhBc.

Virginia

Discovery Labs – Echinoderms and Mad Lab
The Chesapeake Bay National Estuarine Research Reserve offers a Discovery Lab series for fun, family-friendly marine science experiences and lifelong learning. Each lab focuses on a specific topic through a series of stations that provide hands-on activities for kids and adults. Participants look through microscopes, observe live animals, partake in crafts and games, and view research posters. Both VIMS faculty and students participate as speakers, sharing their research with the general public in an intimate setting.
WHEN: September 15th (Echinoderms) and October 20th (Mad Lab)
For more information or to register please visit http://www.vims.edu/cbnerr/education/public_programs/.

Lynnhaven River Now Fall Festival/ Hampton Roads Sustainable Living Expo
The Expo is a family-friendly, regional event designed to engage the greater Hampton Roads community in exploring the balance between social, economic, and environmental responsibility.
WHEN: September 19th
WHERE: Brock Environmental Center

North Carolina

Project Aquatic WILD

This 6-hour workshop is for formal and non-formal educators who work with children in grades K-12. Participants will receive activity guides and qualify for CEU and EEC credits. STEM activities presented during this workshop will focus on aquatic habitats, conservation, and wildlife management.

WHEN: September 9th
WHERE: Lake Johnson Park, Raleigh NC
For more information or to register, please contact Lake Johnson Park at 919-233-2121 or lakejohnsonrentals@raleighnc.gov.

North Carolina Marine Debris Symposium

This symposium will create local cooperation and regional partnership by providing a forum for the exchange of information on recent developments, program ideas, and best management practices for marine debris prevention, education, and removal.

WHEN: September 14th-16th
WHERE: Jennette’s Pier, Nags Head, NC
For more information, please contact RidTheSeaOfMarineDebris@gmail.com.

Take a Child Outside (T.A.C.O.) Week

Take a Child Outside Week is a national movement started in North Carolina that features special Ranger-led programs at North Carolina state parks. To find events near you and list events you are leading, please visit http://www.takeachildoutside.org/

WHEN: September 24th-30th

Leopold Education Project

This national environmental education curriculum geared toward high school students and adults teaches about land ethics, nature observation and how to read the landscape.

WHEN: October 2nd
WHERE: Greensboro, NC
For more information or to register, please email melanie.buckingham@greensboro-nc.gov.

Public Landfill Tours

Join us on a tour of your local landfill to find out where your garbage ends up! In addition to touring an active landfill, participants will get to ride through household waste and recycling facilities, ride to the top of a closed landfill, and visit a Landfill Gas-to-Energy Facility.

WHEN: October 21st
WHERE: Raleigh, NC
For more information and to register, please visit http://www.wakegov.com/recycling/outreach/Pages/tours.aspx.
National Networking for ROV Coordinator

Susie Hill (pictured below and to the right, top), Education Specialist and Special Programs Manager for Nauticus in Norfolk, VA, had the wonderful opportunity of attending the MATE (Marine Advanced Technology Education) Pufferfish ROV Training Workshop at Monterey Peninsula College in Monterey, CA during the week of July 26th-August 1st.

She and her fellow ROV (Remotely Operated Vehicle) underwater robotic enthusiast colleagues learned the process of building Pufferfish Model ROVs, the variety of careers that use underwater robotics such as ROVs and AUVs (Autonomous Underwater Vehicles), and how to get your students interested in competing in a MATE hosted ROV competition. As the MATE Mid-Atlantic Regional ROV Competition Coordinator, Susie will be able to take all of these important lessons and share them with her participating teams for the upcoming competition in May 2016.

Membership

Did you know that MAMEA has nearly 200 members from nine different states plus the District of Columbia? That’s right! The warm and welcoming MAMEA family draws in people not just from the Mid-Atlantic. As one of the most active and engaged NMEA chapters, MAMEA offers many benefits to its members including Masthead newsletter, annual conference, state-sponsored mini conferences and events, conference scholarships, grants, awards, and a network of enthusiastic and friendly science educators. Know an educator who could benefit from being a part of this great organization? Have them visit http://www.mamea.org/join.html.
Delaware Mini Conference: Coastal Ecology

After a very successful horseshoe crab-related mini-conference in 2013, a similar experience was provided to classroom teachers on June 6th of this year. Ten teachers participated in this MAMEA/Delaware Association for Environmental Education co-sponsored event, and hailed from Delaware, Maryland, Virginia, and DC.

The adventure began with a brief program and self-guided tour through the DuPont Nature Center at the Mispillion Harbor Reserve. A Delaware Department of Natural Resources and Environmental Control (DNREC) facility, this former restaurant on the Mispillion River hosts programs and exhibits from March through November all about Delaware’s Bayshore, with particular focus on horseshoe crabs and shorebirds. Teachers saw incubating horseshoe crab eggs, juvenile diamondback terrapins, interesting beachcombing finds, and so much more.

After a bag lunch on the deck of the nature center, participants met up with representatives from Delaware State Parks, who led us on a kayak trip down Cedar Creek, which drains areas of Delaware’s Great Marsh and Prime Hook National Wildlife Refuge. While most of the migrating shorebirds had departed for Canada earlier that week, we did spot Common and Forster’s Terns, Willets, Semipalmated Plovers, Killdeers, American Oystercatchers, and Black Skimmers. Paddlers persevered through some rain and a little wind, but managed to dodge a pretty fierce thunderstorm to our east, which moved straight down Delaware Bay and dropped over an inch of rain on Lewes and Rehoboth Beach!

Once back on land and under blue skies, teachers participated in a share-a-thon (i.e., passing out and describing some of their favorite lesson plans and resources). Each teacher left with handouts and websites to check out, all related to bay ecology.

Finally, as an optional workshop extension, participants were invited (encouraged) to visit Slaughter Beach, just a few minutes away, to see the spawning horseshoe crabs and other bayshore treasures; and boy were we not let down! Every year in May and early June, the bayshore beaches are the place to find spawning horseshoe crabs. Delaware Bay holds the largest population of horseshoe crabs on the planet—that’s of all four species in the world—and the Delaware Bay beaches are chock full of these ancient critters attempting to pass their genes on to the next generation.

Slaughter Beach is one of Delaware Bay’s horseshoe crab “hotspots,” where beachgoers are treated to views of hundreds to thousands of horseshoe crabs. Though we typically see less crabs during the day than at night, we still witnessed dozens of horseshoe crabs, two of which were tagged (and reported)! We also found plenty of horseshoe crab eggs—both individual and freshly-laid clumps—whelk egg cases, and lots of fantastic shorebirds.

Thank you to those who participated, the educators at DuPont Nature Center, and our awesome kayak guides from Delaware State Parks. To all of you who could not make it this year, or who have had their interest piqued, we are hoping to do a similar workshop next spring, so stay tuned!
MAMEA at NMEA

MAMEA Chapter Meeting at NMEA 2015

- Secretary’s Report

Once again, there was an impressive gathering of 33 MAMEAns and potential MAMEAns for our Chapter Meeting at the 2015 NMEA Conference in Newport, RI! Long-time members welcomed new ones and encouraged members-to-be to join our active group.

Stepping in for MAMEA President Dawn Sherwood, Membership Chair Lisa Lawrence and outgoing NMEA Representative David Christopher welcomed the crowd and conducted the meeting. After all Board Members introduced themselves, Lisa announced the results of the 2015/16 Board election. New Board members will begin their terms of office at the Annual Member Business Meeting, to be held in early November.

MAMEA is one of the oldest and most successful NMEA Chapters. Citing the networking and resume-building benefits of MAMEA service, members of the Board encouraged others to join a committee or work with a Board Member to learn more about how MAMEA works and what volunteer jobs keep it ticking. In particular, David Christopher described the duties of the NMEA Representative position that he is vacating and encouraged members to contact him to learn more.

State representatives from DC, Delaware, Maryland, North Carolina, and Virginia reported upcoming professional development opportunities. Events offered by state representatives are open to all MAMEA members, regardless of residence. Attendees also received reports from the Grants, Awards, and Scholarship Committees. They also explained their opportunities, eligibility criteria, and upcoming deadlines. Although President Elect Andy Gould was unable to attend, key dates for the MAMEA Fall Conference were announced on his behalf.

So many MAMEAns! On June 30th, a strong contingent of Mid-Atlantic marine educators gathered for the MAMEA Chapter meeting at the NMEA 2015 Conference, held in Newport, RI. Photo by S. Richards.
Looking for the Hot New Thing?
MAMEA Members Share Ideas at NMEA

Looking for some new ideas to use this school year? MAMEA members attending the 2015 NMEA Conference this summer shared new projects, lessons, and resources! Check out the list of presentations below. If you missed one of these sessions, you can connect with fellow MAMEA members to learn more about their presentation, project, or resource.


- Maureen Barrett: Build Remotely Operated Vehicles (ROVs) in the Classroom
- Patrick Curley: Making Coastal Connections with The Science House
- Adam Frederick & Susan Haynes: Biofilms and Biodiversity, an up-close encounter with biofilm organisms from local aquatic ecosystems
- Kevin Goff, Carol Hopper Brill, & Lisa Lawrence: Shell Shocked: Molluscan Macroevolution for the K-12 Classroom
- Robert Jakus: Wide AND Deep: Curricular Baby Steps AND Beyond
- Kathryn Kelchner: Ocean LitArtsy: Combining Marine and Art Education
- Trish Mace (& colleague): How Much Life Can You Find in One Cubic Foot?
- Chris Petrone: 70 miles, 2 watersheds, 1 goal: The Bay to Bay multidisciplinary investigation
- Kelly Riedinger & Karen Burns: Families Talking Science: The Use of Parent Guides to Foster Discussions at an Aquarium
- Kelly Riedinger (& colleagues): Parent Chaperone-Student Interactions: Lessons Learned from a Field Trip to a Marine Science Field Station
- Kelly Riedinger (& colleagues): A Partnership Between a University and Aquarium to Prepare Marine Science Educators
- Sarah Schoedinger (& colleagues): Do’s and Don’ts for Writing Successful Grant Proposals; Women in Leadership
- Miriam Sutton: An Inquiry-based Investigation Exploring Microscopic Food Webs in Earth’s Oceans; Using Sea Surface Temperature to Investigate the Antarctic Convergence Zone
- Allie Toomey (& colleague): Service Learning in the Science Classroom with EarthEcho; Using Google’s My Maps in the Classroom with EarthEcho
- Lisa Tossey (& colleague): Get It Out There: How to publish your work in journals, online and beyond!

Are you presenting at other conferences or professional development institutes? Please let us know, join the MAMEA Discussion List, and send out a message. For more information, please visit http://www.mamea.org/list.html for instructions.

MAMEA Chapter Basket – a Colorful Tradition at NMEA

As part of the NMEA fundraising auction every year, each regional Chapter assembles a basket of goodies that represents their region. Over the years, quite a competition has developed between Chapters to see whose basket selection attracts the most interest or earns the highest bid. This year, instead of filling a basket, MAMEA members stuffed a huge, blue, crab-themed tote bag to overflowing with 35 different items. There were t-shirts, home décor, cookbooks and books about marine life, and of course lots of regional food and beverage items, plus the plates and glasses for serving them.
Paul Standish Conference Scholarship

Each year Paul Standish Scholarships are available to MAMEA members interested in attending the MAMEA Annual Conference and are in need of financial assistance. These scholarships 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 six months of membership in MAMEA prior to application or must have attended a MAMEA-sponsored state event by the time of application. Members may not receive a Paul Standish Scholarship in consecutive years.

For additional information, please contact Jaclyn Beck at jnm8661@gmail.com or visit http://www.mamea.org/scholarship.html.

To apply, submit an application form and a letter of justification, describing the need for the scholarship and explaining how the conference will benefit you and your students. The application deadline is September 25th. Send your application by email to jn8661@gmail.com or mail to Jaclyn Beck, Scholarship Committee Chair, VIMS, P.O. Box 1346, Gloucester Point, VA 02306.

Glen Echo Park Aquarium Grand Opening

In early 2015, Andrew Wilson of Under the Sea worked to transform an existing building at Glen Echo Park in Glen Echo, MD into the Glen Echo Park Aquarium (GEPA), a Chesapeake Bay Learning Center. He is partnering with the College of Exploration to achieve the goal of using the site to educate the public about the local watershed and how people impact it. This partnership includes several other local groups as well as local citizens who are volunteering to make this a true community project. The site, which formerly housed the Discovery Creek Nature Center, is still in the exciting development phases but plans to house Chesapeake Bay animals as well as river creatures. The outdoor area will teach best practices for watershed protection, and will have a tree house transformed to a pirate ship to focus on fishing stewardship. For more information, please visit http://gepaquarium.org/.

Grand Opening
Glen Echo Park Aquarium
September 19th
7300 MacArthur Blvd., Glen Echo, MD 20812
NOAA Fisheries’ Aquaculture Week

NOAA Fisheries will be celebrating the first-ever Aquaculture Week, September 21-25, commemorating the 35th Anniversary of the National Aquaculture Act. This act recognizes the important role of aquaculture in providing sustainable domestic seafood, building economic opportunities in coastal communities, and conserving our natural marine resources. For more information, please visit [http://www.nmfs.noaa.gov/aquaculture/](http://www.nmfs.noaa.gov/aquaculture/).

Have some great aquaculture images or video shorts? Enter them in the NOAA Aquaculture Photo Contest! There are a number of different categories and submission formats covering the breadth of the aquaculture world. Submission deadline is September 13th. Winners will be announced during Aquaculture Week, September 21-25.

Webinar: Inspire Ocean and Climate Literacy and Conservation Through MPAs

October 8th at 1:00 pm
Speaker: Claire Fackler, National Education Liaison, NOAA Office of National Marine Sanctuaries
Register at [https://attendee.gotowebinar.com/register/4767509171814859778](https://attendee.gotowebinar.com/register/4767509171814859778)

The National Oceanic and Atmospheric Administration’s (NOAA) Office of National Marine Sanctuaries serves as the trustee for a system of fourteen marine protected areas, encompassing more than 170,000 square miles of America’s coastline. The National Marine Sanctuary System’s education and outreach programs inspire ocean and climate literacy and stewardship of the national marine sanctuaries through engaging hands-on, STEM field programs, teacher workshops, student activities, social media and free online resources. Learn about the impacts of these unique programs through formative and summative evaluations and how you too can inspire ocean and climate literacy, as well as conservation and stewardship through your own marine protected area. For more information, please visit [https://www.openchannels.org/upcoming-events/webinar/inspire-ocean-and-climate-literacy-and-conservation-through-mpas](https://www.openchannels.org/upcoming-events/webinar/inspire-ocean-and-climate-literacy-and-conservation-through-mpas).
National Ocean Science Bowl in the Mid-Atlantic

A little competition can be a great way to motivate your students! The National Ocean Sciences Bowl (NOSB®) offers three competitions within our Mid-Atlantic region, held on either February 6th or 27th. The winning team from each regional competition is invited to compete in the National Finals to be held in North Carolina, April 21-24.

For NOSB competitions, teachers act as coaches, preparing a team of four to five students to go head-to-head in an academic quiz-bowl competition. Students are tested on their knowledge of scientific and technical disciplines through rapid-answer buzzer responses as well as more complex written analytical questions. To prepare, students have to bolster their background in marine science content, from biology and chemistry to geology and physics, plus policy, maritime history, and current science events. Plus, working as teams promotes leadership and collaboration skills.

MAMEA is proud to offer awards to first-time and winning coaches of all three Mid-Atlantic regional competitions. For more information about the NOSB Competition in your area, check out the Regional Competition profiles below and visit the NOSB website at http://www.nosb.org/competitions-2/regional-competition-map/. Deadlines for registering your team are different for each Bowl, so check with the Regional Coordinator to sign up.

• **Chesapeake Bay Bowl**, draws schools from Delaware, Maryland, and the DC metropolitan area, as well as selected cities in nearby Pennsylvania and northern Virginia. For Bowl dates and more information, contact Regional Coordinator Richard Friesner at rfriesner@gmu.edu or 703-993-5417.
• The **Blue Crab Bowl** is coordinated by Old Dominion University and the Virginia Institute of Marine Science. Teams are drawn from Virginia, with the exception of northern Virginia’s DC Beltway region. Deadline for submitting a statement of intent to compete is November 2nd. This year’s contest will be held February 6th at Old Dominion University, in Norfolk, VA. Visit the Blue Crab Bowl website at www.vims.edu/bcb or contact Teams Coordinator Carol Hopper Brill at chopper@vims.edu or 804-684-7735.
• The **Blue Heron Bowl** in North Carolina rotates between institutions. For date and location details, contact the North Carolina Regional Coordinator Dr. Janelle Fleming at janelle.fleming@gmail.com or 252-726-6823.

Welcome Pat Curley, NC State Representative!

Dr. Pat Curley, Director of the Science House, at North Carolina State University Center for Marine Sciences and Technology, plunged into the world of environmental education after retiring from the Marine Corps. Curley received his BS from Regents College, MAEd in Science Education from East Carolina University, and an Ed.D in Educational Leadership and Administration from the University of North Carolina-Wilmington. Curley is currently facilitating the Coastal Connections Math and Science Partnership Grant for 6-9 grade teachers, Coastal Inquirers Grant for middle school students, Students Discover Grant for teachers interested in citizen science, CMAST Sea Wolves program for high school students, and the Crystal Coast Project for disabled veterans. Curley also serves as Eastern Section Chair for the Environmental Educators of North Carolina as well as a member of the North Carolina Marine Science and Education Partnership and the Albemarle-Pamlico National Estuary Partnership. In 2013, Curley was honored with the NCEE Outstanding Practitioner Award. Curley brings a wealth of knowledge and experience to the MAMEA Board and will serve as the North Carolina State Representative for the next two years. Welcome aboard, Pat!