From the Captain's Quarters

Greetings MAMEA Family,

The end of summer, always an interesting time for the membership--the nonformal educators are finally catching their breath (and cleaning up their field gear) after a crazy summer full of teacher workshops, summer camps, Boy Scout and Girls Scout troops, family groups, record-high visitations, etc., etc. Add in a family vacation and the NMEA annual conference, and what a wild ride it has been. Meanwhile, our classroom teachers are just ramping up as they go back to their classrooms, new students, and maybe some new colleagues, with new ideas on improving student learning and understanding that they picked up at teacher workshops, conferences, etc.

As MAMEA’s NMEA Rep, Kathy Fuller provided this issue of the Masthead with a fantastic overview of June’s NMEA Conference in beautiful Charleston, SC. But, for me, it was an especially great conference. Yes, I was extraordinarily honored to be awarded the Johnette D. Bosarge Memorial Award, but I was also very honored to walk the conference hallways and session rooms as your President. I have been attending NMEA conferences since 2006 (in NYC), but never before have I walked taller than this summer when I was carrying the MAMEA flag (proverbially, of course; though, we do have a MAMEA flag--other chapters are jealous). I was especially proud of our chapter when amazing educators like Vicki Clark and Terri Kirby Hathaway were awarded Lifetime Memberships; when our tireless member, Tami Lunsford, presided over the conference as the NMEA President; when our quiet-but-hilarious member, David Christopher took home an NMEA President's Award; when our energetic, enthusiastic members presented over two dozen conference sessions, and when our enormous, boisterous contingent had to move to a separate room in order to conduct our chapter meeting--MAMEA always rolls thick at NMEA!
Captain's Quarters con'td.

With NMEA and the summer behind us, we now look forward to an amazing fall, where our greenery turns to reds, yellows, and oranges, the temperature drops, and of course, we meet again for our annual conference. The buzz has already begun and I sincerely hope that you will consider joining us in Ocean City for what is consistently not only my favorite conference of the year, but one of the best networking and professional development opportunities available to marine and environmental educators in the region. We are a strong chapter and have a great conference because of our incredible members. Please plan be a part of biggest--and most fun--MAMEA event of the year!

As I believe this is my last From the Captains Quarters, I want to reiterate how happy I am to be a member of MAMEA. I have met countless colleagues-turned-friends who I can consistently rely on for help with ideas, programming, project collaborations, and of course, laughs. It has been a great experience and honor serving as this amazing chapter's President, and I look forward to staying involved so that I can continue to help our organization grow and thrive in a world that often discounts the work we do. The opposition just makes us think differently and work harder.

See you in November!

Chris

NMEA 2017 Conference Recap

Kathy Fuller
NMEA Representative

The National Marine Educators Association (NMEA) annual conference was held June 25-29 in Charleston, SC. Attendees enjoyed the local sights, sounds, and flavors of the area, and attendees enjoyed evening events at the McLeod Plantation and a “Cephaloparty” at the South Carolina Aquarium. Our regional chapter was very well represented in Charleston. MAMEA members presented more than 19 concurrent sessions during the conference with topics ranging from pirates to penguins, citizen science to carbon, and so much more. Several of our members were recognized for their contributions to marine education at the awards ceremony with Vicki Clark, Terri Kirby Hathaway, and Tami Lunsford being awarded lifetime memberships to NMEA and David Christopher receiving the President’s Award.

Be sure to mark your calendar for the 2018 and 2019 National Marine Educators Association conferences. July 13-20, 2018 in Long Beach, CA aboard the Queen Mary and July 21-26, 2019 in Durham, NH at the University of New Hampshire. Go to www.marine-ed.org for more information.
Registration Now Open!
2017 MAMEA Annual Conference

November 3-5, 2017
Princess Royale Hotel
Ocean City, Maryland
(It's beachfront!)

What’s Included: Full registration includes Friday evening welcome reception at Ocean City Brewing (with trivia), Saturday conference sessions (16 concurrent and two plenary speakers), breakfast, lunch, afternoon snack, Share-a-Thon, and banquet dinner with auctions. Guest tickets and Sunday field trips are available at an additional cost.

Cost: $145 for early bird registration (through September 29th)
Price will go up on September 30th and registration closes October 27th.

Lodging: Princess Royale Hotel
9100 Coastal Highway
Ocean City, MD 21842

$89/night + tax: Ocean or Pool view room
$109/night + tax: Oceanfront room

To make reservations, please visit https://book.b4checkin.com/chameleon/princessroyale/rlp/MAMEA or call the Princess Royale at 1-800-476-9253 and refer to the group id: 4932.

There is still time to submit a poster session or participate in the Share-a-thon.
(http://www.mamea.org/poster.html)

For more information, visit www.mamea.org/conf.html, or contact Conference Committee Chair Lauren Albright (lalbright@aqua.org)
MAMEA 2017 Scholarship Applications due September 18th!

Scholarship applications are now available for the MAMEA 2017 Conference in Ocean City, MD held on November 3-5, 2017. Up to five Paul Standish Scholarships will be awarded to MAMEA members who are interested in attending the MAMEA conference, but are in need of financial assistance. The scholarships cover up to $300 of expenses directly related to participation in the conference, and will be issued as a reimbursement after the conference. 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.

For more information and to apply, go to http://www.mamea.org/scholarship.html and download the application form, sending both the application form and a letter of justification to Sarah Nuss at mcguire@vims.edu. The deadline for applications is September 18, 2017! Applicants will be notified by September 22, 2017.

If you have any questions about the application process, please contact Sarah Nuss. We look forward to seeing you at MAMEA 2017.

MAMEA 2017/18 Grant Applications due September 29th!

You say you want to launch a new project this year, but don’t have 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!

Each year, two grants of up to $1,000 each are available: One for formal educators (classrooms, K-18); and one for informal educators, museum, aquarium, zoo, science center, government agency staff). Projects must focus on marine or aquatic topics. To be eligible, applicants must be current MAMEA members with at least one year’s membership.

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.

Questions? Contact the Grants Committee Chair, Carol Hopper Brill at chopper@vims.edu. Grant awards will be announced at the MAMEA Business Meeting, Nov. 4, 2017, and the funding period is 12 months, from November 1 to October 31.

Book Your Stateroom Aboard the Historic Queen Mary for NMEA 2018: July 15-20 in Long Beach, California!

Be sure to mark your calendars for the 2018 NMEA conference in Long Beach, California July 15-20. Next year’s conference, hosted by SWMEA, will be held aboard the historic Queen Mary. Visit the NMEA website to get up to date information on the conference: www.marine-ed.org/page/2018Conference

See you aboard!
MAMEA 2017 Board Election Results

Andy Gould  
MAMEA Elections Committee

The Mid-Atlantic Marine Education Association held elections for board officers, and a vote for the amendment of our by-Laws from May 12, 2017 to June 13, 2017. We are pleased to announce the following candidates as the winners of our 2017 election. They will take office during our business meeting at the annual conference in November.

President Elect: Carrie Bateman Carlin

My name is Carrie Bateman Carlin and I have been a part of MAMEA for over ten years. I am a classroom teacher at Atlee High School in Hanover County, teaching oceanography and AP Biology. I have had the privilege of serving as MAMEA Virginia State Representative where I planned several mini conferences including whale watching, stand-up paddle boarding, and a baseball game. I also served on the board and provided my perspective as a formal educator. After completing my two-year term as Virginia State Representative, I transitioned to another position on the board as Awards co-chair where I have served for the past four years. During my term as Awards co-chair I have helped create a new online application in order to streamline and improving the process, while also advertising additional opportunities to other MAMEA members. Serving on the MAMEA board has prepared me for the leadership role of president-elect. I know that this position requires teamwork and have already begun discussing the conference planning process with other members. I am excited to be able to continue to serve MAMEA as President-Elect.

Secretary: Carol Hopper Brill

Carol Hopper Brill is a Marine Education Specialist with the Marine Advisory Program at the Virginia Institute of Marine Science in Gloucester Point. She holds Ph.D. in marine zoology and has spent much of her career interpreting marine science and the science process. She is an advocate of using experiential and hands-on education in both informal and formal settings. At VIMS, Carol helps develop professional development opportunities for science teachers, coordinates the Blue Crab Bowl (Virginia Regional NOSB), helps manage a project that prepares VIMS grad students for working with science teachers in local science classrooms, and conducts outreach presentations about careers in marine science. She is one of two VIMS Representatives on the VA Resource-Use Education Council (environmental education). A MAMEA member since 2003, Carol has served as VA Representative and as President. She has been polishing her scribing instincts as MAMEA Secretary since 2013. Other MAMEA activities include serving as Chair of the Grants Committee, contributing to the Mentoring Committee by coordinating the NOSB Coach awards, and she has assisted several annual Conference Committees. One of her favorite pastimes is collecting interesting sand!
Maryland Representative: Christina Romano

Ms. Romano serves as an Education and Outreach Specialist for Towson University’s Center for STEM Excellence (TUSCE). She received her B.S. in Marine Biology from the University of North Carolina – Wilmington and an M.S. in Biotechnology from Johns Hopkins University. Prior to joining the Center for STEM Excellence team, Ms. Romano worked at the National Aquarium as the School Programs Coordinator where she implemented and developed classroom, outreach, and field-based programs for students from elementary through high school. Her duties at Towson University include teaching and delivering bioscience programs to K-12 students and teachers as well as researching, developing, and writing new curricula for existing and future programs. She is also responsible for TUSCE’s amazing website (https://www.towson.edu/fcsm/centers/stem/). It’s a work in progress though, as is everything in life!

North Carolina Representative: Andy Gould

Andy Gould serves as the School Programs Coordinator at the NC Aquarium at Fort Fisher. In this role, he is responsible for all on-site daily educational programs and works with school groups around North Carolina to ensure they have top-quality experiences when visiting the Aquarium. He has served on the MAMEA board for six years, serving in the President’s chain and as the North Carolina Representative. Andy loves the community of talented educators who are involved in MAMEA, and is passionate about giving back to this group who has supported him so much through his career. Andy also serves as a co-coordinator of the NC Aquariums FrogWatch Chapter, and is an alumnus of the National Network for Ocean and Climate Change Interpretation. He earned a B.S. and M.A. in Environmental Studies from the University of North Carolina Wilmington. In his free time, Andy enjoys camping, kayaking, and any opportunity to spend time with his family, friends, and pups.

Addition of At-Large Seats to the MAMEA Board of Directors

Reasoning:

Currently, to join the MAMEA Board, the roles available are state representatives, which are tasked with Masthead articles, running at least one annual mini-conference, enlisting award nominees, etc.; Secretary and Treasurer, which have significant responsibilities; and the President’s chain, which again, come with significant duties including ensuring the annual conference occurs, leading the organization, etc. Ideally, the latter positions require previous MAMEA Board experience—typically serving as a State Rep—so that procedural and institutional knowledge are gained.

Since the current Board roles all involve a fair amount of time commitment, many younger, newer, or later-career members are hesitant to join the Board, and thus, we are left with a very small pool of members to serve.
By creating several At-Large Board positions, we are providing members who are hesitant to take on large organizational responsibilities the opportunity to ease onto the Board and learn how the organization operates, hopefully preparing them for greater responsibility, while at the same time, contributing to the organization’s future. The At-Large positions also allow veteran MAMEA Board members the opportunity to return to the Board and serve again, allowing access to their institutional knowledge.

**At-Large Officer Expectations:**

Elected At-Large officers will serve staggered, two-year terms. There are no term limits for At-Large positions, and the Board will set the number of At-Large positions at the mid-year Board meeting for the next calendar year. At no time shall the MAMEA Board contain more than three At-Large members.

Since At-Large positions are elected and not appointed, they are voting members of the MAMEA Board. At-Large officers shall:
- Participate in all MAMEA Board of Directors meetings, including, but not limited to the annual meeting and mid-year meeting, as well as any related videoconferences or teleconferences.
- Prepare a Board report for the Mid-Year and Annual Board meetings.
- Serve on at least one MAMEA Committee.
- Be encouraged, but not required, to chair or co-chair at least one MAMEA Committee in their second and subsequent years as an At-Large member.
- Carry out other duties as directed by the Executive Committee.

**Election of At-Large Positions:**

Like current Board positions, nominations for the At-Large positions can come from any member in good standing during the normal board nominations period. Persons nominated can be from any state within the MAMEA region, though diversity is encouraged.

With the recent MAMEA membership approval of the addition of these positions, we will hold a special election to recruit our inaugural At-Large officers. A Special Election will be helpful in the late summer of 2017, allowing the At-Large officers to begin their term along with our other elected officers at the annual conference.

**Changes to by-laws to allow for new positions**

Adding these board positions required changes to two separate MAMEA by laws—Article IV, Officers, and Article VI, Duties of Officers). Note these are highlighted in red below. Because of this, a vote of the membership was required to add these board positions, and completed in the Spring of 2017. The amendments to the by-laws are as follows:

**ARTICLE IV. OFFICERS**

*Section 1. The Officers of the Corporation shall be the President, a President-elect, and immediate Past President, a Secretary, a Treasurer, a representative from each member state and the District of Columbia, and may include one to three At Large Officers.*

*Section 2A. The duties of the Officers shall be such as usually pertain to the offices held and also any other duties as may be assigned by the President or prescribed by the By-Laws.*

*Section 2B. Unexpected vacancies on the MAMEA Board will be filled by the Past-President until a majority vote to the remaining Board takes place. The person selected shall serve out the remaining term of the vacancy.*
Section 3. The President, President-Elect, and Immediate Past President shall serve terms of one year, beginning at the Corporation's Annual Meeting and continuing in office until the next Annual Meeting of the Corporation. The Secretary, Treasurer, At-Large Officers, and State Representatives shall serve terms of two years, beginning at the Corporation's Annual Meeting and continuing in office until the next Annual Meeting of the Corporation. Section 4. The Officers shall be elected in the manner prescribed in the By-Laws. Section 5. The Officers shall be the legal representatives of the Corporation, and, as such, shall have, hold, and administer all the property, funds, and affairs of the Corporation in trust for its uses, in conformity with its Articles of Incorporation and By-Laws, and within the Statutes of the Commonwealth of Virginia.

ARTICLE VI. DUTIES OF OFFICERS

Section 1. The President shall preside at the meetings of the Corporation and at meetings of the Officers. The President shall appoint the Chair and members of all Standing and Ad Hoc Committees as provided in the Constitution and By-Laws (with the consent of the other Officers). The President will provide leadership in effecting the purposes of the corporation and in fulfilling directives from the Officers; and will provide a President's Report to the Annual Meeting covering the activities of the Corporation during the term of office. The President is an ex-officio member of all committees and shall assume all other duties normally associated with the office. Section 2. The immediate Past President serves as an officer and Chair of the Selection Committee for Honorary membership. Section 3. The President-elect shall assume the duties of the President in his/her absence or in case of inability to serve. The latter condition will be determined by a two-thirds (2/3) vote of the Officers. The President-elect shall assume the office of President and/or perform the duties of other officers under the conditions outlined in ARTICLE IV, Section 2B. The President-elect shall work cooperatively with the President in administering the affairs of the Corporation. The President-elect shall tender to the other Officers for approval the nominees for Chairs of the Standing and Ad Hoc Committees prior to the Annual Meeting at which he/she will assume the office of President, and announce committee memberships to the general membership upon approval of the other Officers. The President-elect will be responsible for the planning of the Annual Conference Committee and shall prepare the agenda of the Annual Meeting and assume other duties delegated to the office. Section 4. The Secretary shall record and preserve the proceeding of the Annual Meeting and other such meetings of the Officers and general membership. The Secretary is responsible for communicating such records of the Officers within a reasonable time period and these records shall be at all times open to the inspection of members of the Corporation. The secretary will supervise the conduct of the Corporation elections. Section 5. The Treasurer shall oversee the management of the Corporation fiscal affairs such as the supervision of collection and disbursement of Corporation funds and keeping accounts in books belonging to the Corporation. The Treasurer will produce a quarterly financial report to be sent to the Officers and shall present an annual financial statement to the membership at the Annual Meeting. The books shall at all times be open to inspection by Corporation members and prepared for annual independent audit if the Officers desire. Section 6. The Officers may authorize any officer to enter into any contract or to execute and deliver any instrument in the name or on the behalf of the Corporation, and such authority may be general or confined to specific instances. The Officers shall determine the time and place of the Annual Meeting and other special meetings of the Corporation and to give notice thereof. They shall review general arrangements for Annual and special meetings of the Corporation and ensure that an agenda for any such meetings is formulated. They shall make provision for adequate bonding and insurance of the Corporation's treasury and fiscal offices. They shall appoint a Nominating Committee. Section 7. The representative of each member state will serve as coordinators for their areas and such other duties as assigned by the President or President-elect. Section 8. One to three persons shall serve as At-Large Officers, with no more than three At-Large members at any time. At-Large officers shall serve on at least one MAMEA Committee, be encouraged, but not required, to chair or co-chair at least one MAMEA Committee in their second and subsequent years as an At-Large member, and carry out other duties expected of elected board officers and as assigned by the President or President-Elect.
MAMEA Strategic Plan Update

Christopher Petrone
MAMEA President

MAMEA’s “current” strategic plan dates back to 2003, when Past-President, Lewie Lawrence, convened a group of willing members in Chincoteague, Virginia, to formulate a path forward for the organization. This meeting was held in lieu of the 25th annual conference. Lewie and his committee delivered a final strategic plan to the organization in August 2004.

As it sometimes goes with volunteer-run organizations, strategic plans get our full attention when they are new and shiny, but lose their momentum once the Board transitions and the membership changes. So while the 2004 MAMEA Strategic Plan was still “out there,” it was rarely seen, yet alone mentioned, at Board meetings.

At the annual Board meeting held in conjunction with the 2016 Dewey Beach conference (yay Delaware!), the Board developed a plan for the strategic planning process, which included hiring an external facilitator, Jen Dindinger, from Maryland Sea Grant. With Jen, we developed a survey that was sent to MAMEA members in March 2017 that that would inform our organization’s new strategic plan. We were looking to find out what YOU needed and wanted from the organization. The results were somewhat predictable—but still very helpful—and are available upon request.

On March 25, 2017, the MAMEA Board, past Board members, and interested members met at Lake Anna, Virginia, for a three-quarter day retreat, facilitated by Jen Dindinger. The goal was to walk out of the room with the makings of a new, five-year strategic plan. Unlike strategic planning meetings many of us in the room had experienced in the past, the Lake Anna retreat was fun, enlightening, and super energizing! We modified some of the 2004 objectives, ditched others, and added new objectives that would have made no sense to the 2003 committee (e.g. social media, etc.). Before leaving that day, we assigned ourselves roles in making this strategic plan successful, and formulated a plan to ensure accountability.

Over the next few months, Jen and I worked together to formulate a report of the process and a draft strategic plan. In the coming weeks, the MAMEA Board, including the newly elected Board members, will have the opportunity to critique the draft plan. Once that feedback is processed, the second draft will be emailed to the current membership and those that have already registered for the conference, to view and critique. During the MAMEA business meeting at the annual conference (November 3-5, in Ocean City, MD), we will have a brief discussion of the draft plan, and vote on its adoption.

Once adopted and finalized, the strategic plan will be available on our website, but, we will also have a new ad hoc Strategic Plan Committee, that will ensure that we are not only living up to the new plan, but adapting it to the organization’s needs during the plan’s five-year life. If you have any interest in joining this committee, we are happy to have you. Simply contact me at petrone@udel.edu.

I look forward to continually working with all of you to realize our strategic plan and move our organization to the next level.
FALL 2017 EVENTS

National Estuaries Day  
Saturday, September 30, 2017

Get your feet wet with the Delaware National Estuarine Research Reserve’s marsh walk and boat trip. Explore how the Reserve studies the bay. Enjoy planting trees at the Reserve, or join a Reserve Naturalist for a hike. Finally, you can bond with friends and family around their campfire! Two locations for your nature-enjoyment needs.  
www.dnrec.delaware.gov/coastal/DNERR/Pages/DNERRNationalEstuariesDay.aspx

40th Annual Coast Day  
Sunday, October 1, 2017

Where: University of Delaware Hugh R. Sharp Campus, Lewes, DE  
Coast Day highlights how UD scientists, staff, and students are improving understanding of ocean environments and serving 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.

This year’s event will feature the TEACH FLEET (www.teachfleet.com), the world’s largest collection of Lego ships, and a tour of UD’s brand new Robotic Discoveries Lab.

Cost: Free  
www.decoastday.org

Blackbird Creek Fall Festival  
Saturday, October 21, 2017

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!  
Cost: Free  
www.dnrec.delaware.gov/coastal/DNERR/Pages/DNERRBlackbirdCreekFallFestival.aspx
FALL 2017 EVENTS

National Science Teachers Association (NSTA) 2017 Area Conference
Baltimore, MD - October 5-7
www.nsta.org/conferences

Smithsonian Environmental Research Center (SERC) FREE Fall Evening Lectures
Edgewater, MD
www.serc.si.edu/visit/free-evening-lectures

Tuesday, September 19, 7:00-8:00 p.m.
Speaker: Don Weller, Ecologist, Smithsonian Environmental Research Center
Filtering Out Pollution with Riparian Buffers

Tuesday, October 17, 7:00-8:00 p.m.
Speaker: Jim Toomey, Cartoonist of “Sherman’s Lagoon”
Drawing Inspiration from the Sea

Patuxent River Conference (PAXCON) 2017
Wednesday, December 6, 2017
Smithsonian Environmental Research Center in Edgewater, MD
The conference theme is River Management Stories: Making the Leap from Information to Application with a schedule that includes in-depth science presentations, panel sessions, and roundtable discussions all framed the Patuxent River Watershed.

Mallows Bay Kayak Tours with Atlantic Kayak
Multiple dates through late October
Nanjemoy, MD
www.atlantickayak.com/mallows-bay.html

Kayak through history as you explore the “ghost fleet” of WWI steam ships in this bay off the Potomac River. Experience the natural wonders first hand and see why this area is in the process of being designated as a National Marine Sanctuary.
Congratulations are in order!

Jaclyn Miller, Virginia MAMEA member, was recognized as the 2016-2017 Teacher of the Year at Toano Middle School where she currently teaches 7th and 8th grade science. She then competed with other Williamsburg-James City County teachers of the year to secure the coveted title of WJCC’s Middle School Teacher of the Year! The WJCC Teacher of the Year program recognizes outstanding teachers from each division school. In addition, three level Teachers of the Year are selected after additional review of nominating packets and visits to each of the teacher’s classrooms. We are incredibly proud of all of the success that Jaclyn has had in her first year of teaching, and wish her all of the best in the upcoming school year!

Virginia Mini Conference Recap - The HAB Lab!

The 2017 Virginia MAMEA Mini Event was a great success! On August 28, 2017, eighteen educators from Virginia and beyond gathered to socialize, network, and explore the wonders of marine science at night. Participants had dinner; received a guest presentation on Harmful Algal Blooms from Virginia Institute of Marine Science PhD student Sarah Pease; participated in various plankton and bioluminescence-related educational activities; and geared up with LED glow sticks, bracelets, head lamps, and seine nets to examine the aquatic wildlife of the York River. The timing was perfect, as we were lucky enough to see bioluminescence in action while wading through a bloom of Alexandrium monilatum! We would like to extend a special welcome to our two newest Virginia MAMEA members, Kyle Ogburn and Rebekah Egbert!
Upcoming Virginia Events:

Teacher Appreciation Night at the Virginia Aquarium!
Teachers - Please join us at the Bay & Ocean Pavilion on Thursday, September 28, 2017 from 5:30 - 8:30 pm for a special evening dedicated to you. Take a stroll through our exhibits, go behind the scenes, learn about programs, get a sneak peek of our new changing exhibit Goosebumps, preview the new film Amazon 3D Adventure, and get free resources for your classroom.

Visit the Aquarium’s Bay & Ocean Pavilion and explore our live animals and interactive exhibits.

- Meet live animals and participate in hands-on school programs
- Get free resources for your classroom
- Go on a Behind-the-Scenes Tour
- Preview our new changing exhibit Goosebumps: the Science of Fear
- Screen the new film, Amazon Adventure 3D

**Teacher & 1 Guest Free**
School ID or pay stub required to check-in

**Additional Guests**
2 guests at school rate ($18 Adult, $12 Student)

All others pay the general admission rate
Capture and Curation Methods for Studying Terrestrial Vertebrates and Invertebrates: Discovering How Important Scientific Specimens Can Be!

Instructors:  
Dr. Nancy D. Mocrief, Curator of Mammals  
Virginia Museum of Natural History  

Dr. Kal Ivanov, Assistant Curator of Invertebrate Zoology  
Virginia Museum of Natural History  

Date:  
October 4th, 2017  

Time:  
8:30 AM - 3:30 PM  

Location:  
Catlett-Burrus Research and Education Laboratory/Wilson House  
Virginia Institute of Marine Science, Gloucester Point, Virginia 23062  

Cost:  
$30 (full payment is due at time of registration)  
Please bring a bag lunch, drinks and snacks will be provided  

This day-long workshop, offered by the Chesapeake Bay National Estuarine Research Reserve in Virginia, along with the Virginia Museum of Natural History, will provide details about how terrestrial vertebrates and invertebrates are captured for scientific study and how they are prepared and curated as museum specimens for long-term preservation. The instructors will also provide examples from their own research programs of how museum specimens are used to further our understanding of Virginia’s fauna.

In the morning, we will explore various methods of capturing mammals. Participants will accompany Dr. Mocrief as she checks previously set live traps. We will observe and photograph the animals we capture, and then release them where they were caught. We will also review various other methods for studying mammals that do not require capture and handling. Many of the techniques for capturing and studying terrestrial mammals are also used for birds, reptiles, and amphibians.

In the afternoon, Dr. Ivanov will show us various ways of catching arthropods and other invertebrates. These will include, but not limited to: 1) active techniques such as hand collecting, sweep netting, and collecting with beat sheets; and 2) passive techniques such as Winkler litter extraction, pitfall traps, Malaise traps and other passive trap types, some of which are baited with small bits of sweet foods (such as cookies).

To register, email Sandra Erdle (syrerdle@vims.edu) with your name, email, professional affiliation, and phone number. Payment may be mailed or submitted online via the following link:
https://secure.touchnet.net/C20604_ustores/web/product_detail.jsp?PRODUCTID=57&SINGLESTORE=true

Please direct any questions to Sandra Erdle at 804-684-7144 or syerdle@vims.edu.
MAMEA Members Honored at National Conference

Carrie Carlin
Awards Committee Co-Chair

Please congratulate the following MAMEA members for winning the following awards during the annual NMEA conference in Charleston, SC this past June. Honorary memberships were awarded to both Terri Kirby-Hathaway and Vicki Clark. Honorary membership shall be the highest recognition that the Association can offer. To be eligible for such recognition, a person shall have demonstrated a distinguished career in teaching, research, or service in marine education.

The President’s Award was given to David Christopher. NMEA President Tami Lunsford said that “David is a great mentor. He always believes in me, pushes me to continue growing, recognizes my strengths and weaknesses and without a doubt knows when to tell me to breathe and not stress out.”

Finally, Chris Petrone earned the Johnette D. Bosarge Memorial Award. Chris was described as having “values similar to Johnette’s in many ways. Professionally he is a smart, hard worker who always gives his best to any project. He embraces challenges, and seeks to learn more, and collaborates effectively with colleagues.”

Mid-Atlantic Region Winners at 20th NOSB Finals

Carol Hopper-Brill
NMEA Secretary & Blue Crab Bowl Co-Regional Coordinator

At the National Ocean Science Bowl’s 2017 National Finals, our Mid-Atlantic teams really showed off their marine science chops! The 20th Annual NOSB Finals, held April 21-23 in Corvallis, Oregon, brought together the winning teams from 25 regional competitions held around the country. The team from North Carolina’s Blue Heron Bowl - North Carolina School of Science & Math (Durham, NC) coached by Amanda Martyn took Third Place honors overall. The winner of Virginia’s Blue Crab Bowl, Bishop Sullivan Catholic High (Virginia Beach, VA) coached by Carol Stapanowich and Bill Dunn snagged Fifth Place. Additional honors were awarded for the Science Expert Briefing, a policy segment of the NOSB Finals that replicates a Federal legislative hearing. Taking top honors for this portion of the competition was the Chesapeake Bay Bowl’s winning team, Montgomery Blair High School (Silver Spring, Maryland) coached by Tran Pham. Bishop Sullivan Catholic High came in second on this challenge and North Carolina School of Science and Math ranked third. NOSB has the standings posted on their web page at: http://nosb.org/compete/competitions-finals-competition/2017-nosb-finals/.

Congratulations to the hard-working students and coaches from these stellar Mid-Atlantic teams! For photos of each team, see Masthead’s Spring 2017 issue, Vol. 37 (1): 18-19. And, for more information about NOSB and the 2017 20th Annual Finals, visit the NOSB webpage at http://nosb.org/.
2018 Mid-Atlantic Regional NOSB Competitions

Students Gain Knowledge and Skills

Whether you have motivated students or need to spark some interest, try a little competition! The National Ocean Sciences Bowl (NOSB®) offers three annual competitions within our Mid-Atlantic region. The 2018 contests will be held on either February 3 or 17. The winning team from each regional competition is invited to compete in the National Finals held in April 2018.

Teachers act as coaches for NOSB competitions, preparing a team of 4-5 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 recognizes the hard work of teachers by offering 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, the DC metropolitan area, as well as selected cities in nearby Pennsylvania and Northern Virginia. This northernmost of our Mid-Atlantic bowls takes place on February 3 at the University of Delaware’s Lewes Campus. For more information or to register a team, contact Regional Coordinator Christopher Petrone at petrone@udel.edu or phone 302-645-4308. Updates will be become available at www.chesapeakebaybowl.org.

•Virginia’s Blue Crab Bowl is coordinated by Old Dominion 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 1. This year’s contest will be held February 3. For more details, visit the Blue Crab Bowl website at www.vims.edu/bcb. or contact Teams Coordinator Carol Hopper Brill at chopper@vims.edu, phone 804-684-7735.

•The Blue Heron Bowl in North Carolina rotates between institutions. In 2018, it will be held in Wilmington, NC. For other details, contact the NC Regional Coordinator Erin Moran; e-mail: morane@uncw.edu; phone 910-962-2992. Or, visit the Blue Heron Bowl website at: https://sites.google.com/site/blueheronbowl/.

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The MAMEA Board meets twice a year. For more information visit: http://www.mamea.org/board.html