

The Masthead

Newsletter of the Mid-Atlantic Marine Education Association



Winter 2007

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From the Captain's Quarters

I want to thank all those involved (once again) for helping make the Annual Conference at NorthBay a success! From the feedback it looks like everyone enjoyed the presentations, keynote speakers, the setting, and the auctions. It is a great deal of work to plan the annual conference, but I think MAMEA has identified a format that works and allows for flexibility and variation from year to year. I have already met with our President-elect, David Christopher (We're neighbors in the Inner Harbor for those that don't know.), and he shared some excellent ideas for the conference next year. It was clear from many of the comments that two items stand out; participants enjoyed the focus on science content delivered by the two keynote speakers and the concurrent sessions, and that 4 concurrent sessions may be too many for the number of participants that we attract to our conference. This type of feedback is critical and we can address this effectively by making concerted efforts to prepare for conferences in the future by doing the following:

- Once conference registration is available, please register as soon as possible and pass the word on to others to put the

date on their calendar and do the same.

- Add MAMEA announcements about the annual conference to other literature that you produce for other workshops, etc.
- Make an effort of attract new classroom teachers to MAMEA so we can keep our connection with formal education a priority.

These points are all interrelated to annual conference success and the future success of the organization as a whole since we need to grow membership and increase annual conference attendance. The last two years we have had attendance around the 45-50 mark. I think we should make a greater effort to strive for 75-80, with the bulk of new attendees being formal educators. This will certainly be a challenge given all that is taking place in the classroom these days that keeps many teachers on campus as much as possible.

In response to this, I would like to invite individuals on the MAMEA Board and other

members to identify foundations and potential donors that I can approach on behalf of the organization to increase our scholarship funds for the annual conference. If we can identify willing organizations in each State then we'll be in better position to attract teachers that need assistance and increase our MAMEA visibility. I will do my best here in MD to identify three organizations that can supply us with scholarship money and I have made some good contacts already. Please join me in this effort.

On the another front, MD Sea Grant is developing an on-line newsletter editor that we will have access to produce the Masthead and it is looking very good ☺. After the new-year it should be complete and I will share this with Kathy Siegfried and Barry Fox so we can look at an additional avenue for publication.

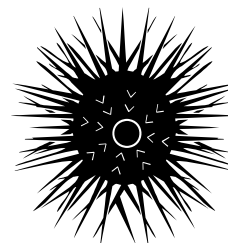
All the best to everyone and Happy Holidays!

Adam Frederick
MAMEA President

Mark Your Calendar for the Upcoming Mini-Conferences

NC Mini-Conference, March 2-3, 2007
at the North Carolina Aquarium at Pine Knoll Shores

MD Mini-Conference, March 9-10, 2007
at the National Aquarium in Baltimore



Lifetime Members

Vicki Clark
Terri Kirby-Hathaway
Lee Larkin
Celeste Maus
Carol McCormack
Miah Olmsted
Jon Osterholm
Jackie Takacs

Members

Emmanuel Addo
Kris Adler
Lisa Allen
Kelly Alperin
Cindy Anderson
Kristin Andrews
Windy Arey-Kent
Angie Ashley
Homeretta Ayala
Barbara Bach
Belinda Bagnal
Nicole Barth
Michael Bates
Wesley Batten
Jim Beam
Rebecca Bell
Tamara Bennett
Alison Berkovic
Kim Bickerstaff
Kristina Bishop
Amy Bodenhiemer
Jennifer Bodis
Courtney Bogle

Marjorie Bollinger
 Wendy Boyd
 Brooke Brinson
 Amy Britt
 Cissie Brooks
 Randy Brown
 Jane Brown
 Tracey Bryant
 Lynn Brydebell
 Jennifer Brydebell
 Holly Buckle
 Christine Buechting
 Sandy Burk
 Danielle Burke
 Phyllis Butler
 Julie Cahill
 Michael Calvert
 Rene' Carson
 Richard Cecelski
 Sandie Cecelski
 Fred Chanania
 Tim Chase
 Valerie Chase
 David Christopher
 John Chubb
 Xuquang Clarke
 Brian Colaizzi
 Corrine Coulter
 Kelley Cox
 Vivian Coxe
 Robert Coxe
 Consuella Craig
 Tara Cumbee
 Patrick Curley
 Jennifer Curtis
 Jaime Derhammer
 Maureen Dewire
 Julie Dickinson
 John Dietrich
 Harriet Donofrio
 Alyson Donoghue
 Tim Duffy
 Enid Duncan
 Bonnie Dunn
 Joan Ehlers
 Laura Eierman
 Kay Endris
 Pat Everett
 Ann Faulds
 Lilli Ferguson
 Linda Fernandes
 Linda Ferragut
 Stephanie Fetterman
 Karen Fetty

Ocean Literacy An Ocean-Oriented Approach to Teaching Standards

Ocean literacy is an understanding of the ocean's influence on you and your influence of the ocean.

An ocean-literate person:

- understands the Essential Principles and Fundamental Concepts about functioning of the ocean;
- can communicate about the ocean in a meaningful way; and
- is able to make informed and responsible decisions regarding the ocean and its resources.

Further information relating to ocean literacy and ocean resources can be found at: www.ngsednet.org/oceans

www.marine-ed.org

www.cosee.net

www.education.noaa.gov

7 Essential Principles for an Ocean Literate Public

1. *The Earth has one big ocean with many features.*
2. *The ocean and life in the ocean shape the features of the Earth.*
3. *The ocean is a major influence on weather and climate.*
4. *The ocean makes Earth habitable.*
5. *The ocean supports a great diversity of life and ecosystems.*
6. *The ocean and humans are inextricably interconnected.*
7. *The ocean is largely unexplored.*

Storm Surge: A Classroom Activity for Students in Grades 6-12

From MAMEA Member Beth Jewell:

A hurricane is a powerful, spiraling storm that begins over a warm sea, near the equator. When a hurricane hits land, it can do damage through its storm surge, winds, rain, inland flooding, and waves crashing ashore. Storm surge is a massive dome of water, often 50 miles wide, that sweeps across the coast near the

area where the eye of the hurricane makes landfall. This advancing surge of water combines with the normal tides to create the hurricane storm tide, which increases the mean water level, putting the tide line higher on the coast and flooding areas that are normally beyond the reach of the ocean. The storm surge acts like a bulldozer sweeping away everything in its path and flooding low-lying areas. Understanding storm surge is essential in making decisions about development and planning evacuation routes as a hurricane approaches.

Go to www.mamea.org to get the complete write up of this activity.

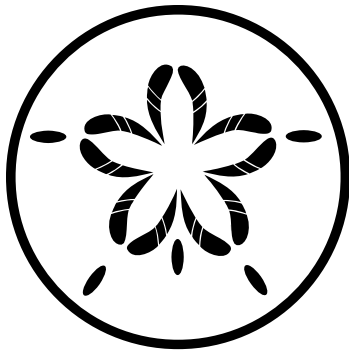
Newsletters Worth Noting

• **NOAA's Office of Education and the National Marine Protected Areas Center** offers the Information Exchange for Marine Educators. This excellent newsletter encourages the exchange of information and programs pertinent to marine educators and is intended to promote collaboration among educators addressing similar issues. "InfoExchange" compiles items from many different sources, including EE-NEWS@NAAEE, CREEC, EEinGEORGIA, scuttlebutt, the Scout Report, edinfo at FREE, The Ocean Project, and others. You can subscribe to their distribution list by sending a blank message to requests@willamette.nos.noaa.gov with "subscribe infoexchange" in the subject field. Contact the editor directly at phyllis.dermer@noaa.gov, or by phone at (865) 932-5074.

• **The Consortium for Oceanographic Research and Education** posts an on-line newsletter packed with the latest news on ocean research, policy and education initiatives – hot off the presses in DC. Find the newsletter on www.COREocean.org.

• **Marine Technology Society** offers some scholarships to graduating high school students with interests in pursuing engineering, visit <http://www.mtsociety.org/education/index.cfm>

2006 Annual Report



Membership News

Active Members: 278

New: 166

Renewals: 104

Lifetime: 8

State-by-State Breakdown:

12 Delaware

92 Maryland

6 DC

83 Virginia

74 North Carolina

3 Pennsylvania

3 South Carolina

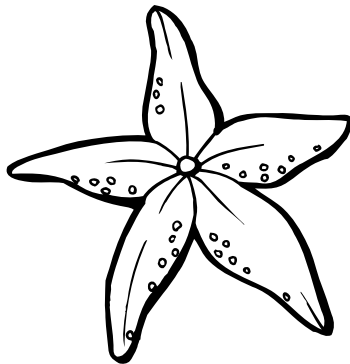
1 Georgia

1 Tennessee

1 Arkansas

1 Connecticut

1 Other (incomplete entry)



Financial Report as of 9/29/06

INCOME	BUDGET	ACTUAL
Interest on Accounts	\$1,230.00	
Grant from BRIDGE Project	\$500.00	
MAMEA Conference	\$5,000.00	\$6,610.00
Auction	\$1,150.00	
Memberships	\$1,500.00	\$550.00
Mini Conferences	\$300.00	\$920.00
SAME Donation		\$255.00
Logo Items		\$66.95
TOTAL INCOME	\$9,680.00	\$8,401.95
EXPENSES		
Accounting Service	\$1,000.00	
Awards		
NMEA Membership	\$105.00	
Plaques	\$70.00	\$33.86
BRIDGE Project Grant	\$500.00	
Gift Memberships via President	\$100.00	
Grants	\$1,000.00	
Legal Consultations	\$200.00	\$250.00
Logo Items	\$0.00	\$48.30
MAMEA Conference Expenses	\$5,000.00	\$1,100.00
Masthead	\$600.00	\$343.45
Mini Conferences	\$300.00	\$210.00
Past President Expenses		
NMEA Mid-Year Meeting	\$500.00	\$440.02
NMEA Annual Conference	\$500.00	\$436.00
Office Supplies	\$50.00	\$15.36
Paul Standish Scholarship	\$200.00	
Postage	\$500.00	\$241.80
President's Discretionary Fund	\$100.00	
Renewal Notices	\$100.00	\$16.25
Spring Board Meeting	\$50.00	\$27.08
State Corporation Commission	\$25.00	\$25.00
Web Domain Registration	\$0.00	
Donation to SAME		\$550.00
TOTAL EXPENSES	\$10,900.00	\$3,187.12

Money Market Balance (8/31/06) \$8,380.16
Checking Account Balance (9/29/06) \$10,192.44
CD Balance \$25,960.43

- Cami Field
- Barry Fox
- Denise Frebertshouser
- Adam Frederick
- Kathleen Freeman
- Meghan Fuller
- Meredith Furrow
- Sandra Gaillard
- Erin Gallimore
- Angela Gauthier
- Rich Geisler
- Margot Geisler
- Wayne Gilreath
- Shaun Giudice
- Allison Gleason
- Gale Gleisner
- David Graft
- Christine Grant
- Stacy Grice
- Patty Griffin
- Heather Groffy-Smith
- James Hall
- Carol Hall
- Penny Hall
- Bill Hall
- Chris Harner
- Victoria Harris
- Garland Hart
- Kent Hathaway
- Patricia Hay
- Susan Haynes
- Jan Healy
- Beverly Henson
- Yolanda Hernandez
- Andrea Hitt
- Lawrence Hollis
- Same Honeycutt
- Janet Hooks
- Penny Hooper
- Carol Hopper-Brill
- Jenifer Hoskins
- Suzanne Hughes
- Susan Hurstcalderson
- Noel Huxel
- Karen Irving
- Beth Jewell
- Carrie Jones
- F. Calvin Jones
- Richard Julian
- Adam Kemp
- Diane Killian
- Jessica Kohout
- Jeannie Kraus
- Lisa Lawrence

Lisa Lerner
 Mark Lewandowski
 Mellie Lewis
 Sally Lewis
 Arleen Linehan
 Tami Lunsford
 John Lunsford
 Ann Lusher
 Jennifer Magruder
 Giner Malone
 Jeanne Markert
 Gregg Mason
 Joseph Matanoski
 Susan Matthews
 Donna McDonough
 Sarah McGuire
 Nicole McGurl
 George McGurl
 Laurie McKay
 Perry Miller
 Margery Misenheimer
 Ian Misner
 Stef Misner
 Megan Moffit
 Marcel Montane
 Bruce Moravchik
 Jeff Morgen
 Debora Mosher
 Thayn Moyes
 Nancy Mullaney
 Debbie Myers
 Dana Newton
 Sonia Nichols
 Kimberly Nierman
 Ron Ohrel
 Palla O'Neal-Jimentel
 Marcia Ostendorff
 Mark Oswell
 Maxine Packheiser
 Jeff Paternoster
 Tricia Pavlik
 Diana Payne
 Christopher Petrone
 Sherry Pettyjohn
 Sarah Phillips
 Amy Plahuta
 Larry Points
 JoAnne Powell
 Michael Putiri
 Susan Raabe
 Diane Raisner
 Jennifer Rasnake
 Renee Raspanti
 Anna Rausa

MAMEA Honors Marine Educators at the Regional Conference

Outstanding Non-Traditional Marine Educator 2006: Jenifer Hoskins

Outstanding Classroom Educator 2006: Mellie Lewis

Jenifer Hoskins, Educator at the North Carolina Aquarium at Pine Knoll Shores—Jenifer says she has had a life long love affair with the coastal environment which has led her to a profession helping others discover and appreciate special habitats and life forms inhabiting this region. With a degree in Marine Biology from UNC-Wilmington and some graduate work, she dived headlong into aquarium work, first at Fort Fisher and later at Pine Knoll Shores. Working with the general public, and especially groups, she developed new programs and educational materials. Recently she has been concentrating on preparing groups before they arrive to the Aquarium and offering post trip activities to keep the experience and learning alive. She was especially helpful providing outreach programs while the aquarium was under renovation. She's been active with MAMEA, NMEA, the NC Maritime Museum, the National Estuarine Research Reserve, COSEE, the Cape Lookout National Seashore, and Core Sound Waterfowl Museum. You can tell she is passionate about marine science.

Mellie Lewis, Gifted and Talented Resource Teacher with Howard County Schools—Mellie has been with the Howard County Public Schools for 20 years. Her day-to-day teaching responsibilities center on the fifth grade at Atholton Elementary School in Columbia, Maryland. But her involvement in reaching both youth and adults, including others active in marine education, goes far beyond that. She wrote the oceanography unit "Ocean Systems", is the co-author of "SEAS: Diving into Deep-sea Research From Your Classroom" (Current 2005), is a member of the NMEA Ocean Literacy and International Committees, and is the Maryland Rep to MAMEA. Mellie has piloted many National Geographic, NASA, and Dive & Discover lessons within her school and has been a presenter at NMEA, OCEANS 2005, NSTA and MAMEA conferences. From her work with students, her influence and contributions have spanned the wide community of marine science educators.

Congratulations to our outstanding Educators!

Students Take Ocean Issues to Washington, DC

Nineteen student delegations delivered presentations on coastal and ocean issues at the 2nd National Student Summit on Oceans and Coasts in Washington, D.C. Student groups from across the nation were in the nation's capital from December 5-8, 2006 to present Plans of Action and recommendations for ocean and coastal protection before national experts and policy leaders in the Washington. The National Student Summit on Oceans and Coasts is hosted by Coastal America and its network of 22 Coastal Ecosystem Learning Centers (CELC's), which include the NC Aquariums and the National Aquarium in Baltimore. The summit was a three-day academic experience for 120 high school students and educators combining science, engineering, economics, political science and other disciplines.

Each CELC student group researched regional ocean and coastal issues, determined solutions to pressing problems, and developed an Action Plan involving their community. The students from North Carolina delivered a presentation about oyster restoration, and the students from the National Aquarium in Baltimore delivered a presentation on diamondback terrapin population recovery strategies.

Four students from Ashley High School in Wilmington, NC, sponsored by the North Carolina Aquarium at Fort Fisher, presented at the conference. Their 20-minute report detailed the economic and environmental importance of oysters and steps for restoring populations. Environmental Science teacher and mentor, Bryan Bishop, and an NCAFF educator Stefanie Misner, helped students prepare

for, and accompanied them on, the trip. The Ashley delegation chose oyster shell recycling and restoration because of its timely relevance to North Carolina's coastal environment.

Five students from the National Aquarium in Baltimore's high school work-study Aquarium on Wheels Program presented on their conservation work with the diamondback terrapin population in the state of Maryland. Their presentation focused on a petition to close the terrapin fishery in MD, encourage students to learn about terrapins by raising hatchlings through a head start program, and increasing knowledge of terrapins through community outreach focusing on bycatch reduction devices. Recent changes to terrapin harvest regulations have limited the turtle harvest, but studies show that those efforts may not be enough to save Maryland's terrapins.

Representing NASA Goddard Flight Center, four students from Sherwood High School in Montgomery County, MD, were also in attendance presenting an Action Plan about riparian forest buffers.

More information about the Student Summit is available at www.coastalamerical.gov.

News from Around the Region

North Carolina

EstuaryLive- May 9-11, 2007 SAVE THE DATE!! /EstuaryLive: NOAA in the Carolina's/. Watch www.estuarylive.org for details, agendas and resources.

NC AQUARIUM at Pine Knoll Shores Mini-Conference

Come and join the education staff at the newly remodeled NC Aquarium at Pine Knoll Shores for a MAMEA mini-conference on March 2-3, 2007. Bring your sleeping bags and gear to spend an evening exploring "North Carolina, from the Mountains to the Sea", the theme for the new Aquarium.

We will present educational lessons and activities on the Wonders of Water, take a Night Trek, play Aquarium Jeopardy (prizes included), and participate in a variety of interactive, hands-on educational lessons throughout the facility. Pizza dinner and light breakfast will be provided, as well as educational resources for teachers to take back to their classrooms.

Arrival time is Friday, March 2nd at 5:00 p.m. and the program will be completed on Sat., March 3rd at 9:00 a.m. Fee for MAMEA members is \$10.00 and non-members is \$20.00. For registration, please contact Pam Pittman, registrar at (252) 247-4003.

For more information please contact Windy Arey Kent, Education Curator, NC Aquarium at Pine Knoll Shores at (252) 247-4003 ext. 229.

North Carolina Maritime Museum

The NC Maritime Museum now offers Spanish language editions of the Sea Hunt (grades 1-3) and Treasure Hunt (grades 4-6) self-guided tours for kids. We continue to lead school field trips to the Rachel Carson Reserve and tidal flat as well as marine life collecting cruises.

Winter highlights include the film "Wild Caught" by Matt Barr of UNC-Greensboro about the plight of fishing families in Sneads Ferry, NC. (Jan. 18). "A History of Antarctica from Wooden Ships to Icebreakers" by Dr. Ari Friedlaender, Duke University Marine Lab, Beaufort focuses on the exploration and exploitation of this fragile ecosystem (Feb. 15). Wildlife driving tours and bird watching trips are scheduled throughout the winter. Collectors Day offers the opportunity for the public to display and discuss their unique collections (March 17). The boating program offers classes in boatbuilding, sea kayaking and the Wooden Boat Show on May 5.

Project POWER Funded Wetlands Workshop Held at Fort Fisher

The NC Aquarium at Ft Fisher hosted an event for local homeowners on November 8, 2006. The workshop was the result of an EPA grant the New York Aquarium received to promote workshops among zoos and aquariums nationwide modeled after their successful initiative with the New York Department of Environmental Conservation. Aquarium educators worked with a representative from North Carolina's Division of Water Quality to develop a workshop targeting homeowner associations with historically high numbers of wetland citations.

Participants enjoyed an educational evening exploring the Aquarium's wetland exhibits and dining on food from local wetlands. Their creative side was employed to make fish printings on organic cotton tote bags, which they were encouraged to use instead of disposable bags, for shopping. Cyndi Karoly, from DWQ, spoke to participants about local wetland regulations and demonstrated the tangible effects of violations on coastal living. The program ended with a presentation by Ruth Schneider on the benefits of wetlands to wildlife, and way of life. The Aquarium hopes to build upon this workshop in the future, continuing to target audiences we might not otherwise reach.

Ocean Awareness Through Science Education Workshop January 20, 2007, 9:00 am – 4:00 pm at the North Carolina Aquarium at Fort Fisher

Join aquarium staff and marine education specialists to experience science education driven by ocean awareness. The SouthEast Center for Ocean Sciences Education Excellence (COSEE SE) is providing this opportunity to host a series of activities that connect teachers to aquariums, and oceans, as resources for science inquiry. Aquarium exhibits and aquatic environments provide endless possibilities for relevant science education. Teachers participating in this workshop receive six contact hours for CEU credit, classroom activities, posters, and other useful materials. This workshop is free of charge and includes lunch. To register contact: Danielle.Wallace@ncmail.net, or call (910) 458-7468.

Washington, DC

Nothing to report

Patricia Raves
Meg Rawls
Lauren Rifkin
Steve Rifkin
James Roberson
Tammy Roberson
Tina Roberts
Catherine Roberts
Margarita Rochow
Robin Rosebrough
Laura Rush
Cristin Ryan
Biagie Sancetta
Amy Sauls
Gracie Saunders
Beth Schap
Geri Schlenoff
Ruth Schneider
Sarah Schoedinger
Jacqueline Schoen
Dawn Sherwood
Julie Shields
Brandon Shifflet
Eric Shippee
Kayla Shoemaker
Cindy Siegfried
Kathy Siegfried
Jennifer Sillitti
William Simpkins
Marie Sipe
John Skrobeltski
Peggy Sloan
Jamie Smith
Carrie Smith
Jeremy Smith
Mickey Jo Sorrell
Sherri Spangler-Herman
Annita Spanos
Shannon Sprague
Erin Michelle Sprull
Susan Stagge
Bob Stanhope
Peggy Steffen
Douglas Stoner
Miraim Sutton
Susan Sweeney
William Talbott
Jan eTalbot
Diane Talley
Natasha Taylor
Vicky Thayer
Lindsay Thornton
Joyce Thorpe
Robert Todd

Connie Trabilsy
 Brenda Tracey
 Karen Travers
 Krista Trono
 Peter Tuddenham
 Carolyn Turner
 Julie Turt
 Jacki Tylka
 Michelle Urban
 Heather Vickers
 Bee Jae Viescas
 Nicole Wall
 Landon Ward
 Barbara Waters
 Gail Watts
 Lisa Weaver
 David Wehunt
 Chris Whitherspoon
 Wendy Wicke
 Mary Wiedeman
 Beth Wilcox
 Libby Wilcox
 Keith Williams
 Andrew Wilson
 Susan Winkle
 Diana Withen
 Josie Wold
 Andy Wood
 Mary Wood
 David Wright
 Erika Wunderlich

Delaware

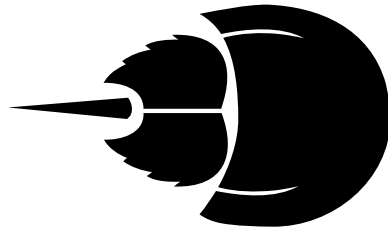
Here are some exciting upcoming opportunities for professional development and research grants that are unique to the first state. The next professional development opportunities at the University of Delaware in Lewes are:

- Environmental Biotechnology workshop for teachers (January 19-21)
- Rookie Science weekend workshop (February 9-11)
- Chesapeake and Delaware watersheds ecology workshop (March 30-April 1).

Also, the Delaware Sea Grant is offering \$25-45,000 grants for projects related to coastal community enhancement. Proposals must be submitted by January 12, 2007. The proposals must address one of the following themes: economic valuation studies, disaster-resilient communities, growth trends in Sussex

County, Infrastructure needs in Sussex County, or Impact of Development on Environmental, Cultural, and Historical Resources. See the Sea Grant website (<http://www.ocean.udel.edu/seagrant/>) for more information.

Have any questions about marine science education in Delaware? Do you want to get connected with someone locally who can help you teach marine science topics in your classes? Please don't hesitate to contact me: Tami Lunsford, tami.lunsford@gmail.com. I'm your new state representative and I am happy to help however I can.



Maryland

Maryland Mini-Conference at the National Aquarium in Baltimore

Educators spend an evening exploring the sights, sounds, and behaviors of Aquarium in habitants on March 9-10, 2007. Attend hands-on workshops, take a behind-the-scenes tour, and after a night's rest, observe early-morning behavior of animals in our Upland Tropical Rain Forest. Bring your sleeping gear and enjoy a memorable event. Registration deadline is March 2, 2007. Fee is \$60 per person for non-MAMEA members and \$50 for MAMEA members. Fee includes teaching materials, snacks, beverages, and breakfast. To register, please contact the Aquarium's Central Reservations Department at 410-576-3833 or reserve@aqua.org.

Virginia

Chesapeake Bay National Estuarine Research Reserve in Virginia

Each year, the Chesapeake Bay National Estuarine Research Reserve in Virginia offers several opportunities for educators. In the past, CBNERRVA has offered summer teacher workshops on topics including Water Quality, Estuarine Aquarium Keeping, Schoolyard Habitats, and York River Habitats. And throughout the year, CBNERRVA host several "Critter Collection Days" when teachers can collect Chesapeake Bay animals for their classroom aquaria and receive educational materials on how to maintain healthy estuarine aquarium systems. A Collection Day is being planned for late March or April, dates to be determined. Topics for the 2007 summer teacher workshop topics have not been finalized yet. So, please check the CBNERRVA website for more information, <http://www.vims.edu/cbner/> or direct any questions about CBNERRVA's teacher and student opportunities to Education Coordinator Sarah McGuire at mcguire@vims.edu.

The Mariner's Museum & NOAA USS Monitor National Marine Sanctuary

January 27—Archipelago Exhibit Opening at The Mariners' Museum. This beautiful photographic exhibit takes you on a tour of the flora and fauna of NOAA's Northwestern Hawaiian Islands Marine National Monument, the world's newest and largest marine protected area.

March 9—Exactly 145 years after the historic clash between the USS Monitor and the CSS Virginia, the USS Monitor Center opens its doors. Visit www.monitorcenter.org for more information.

COSEE Mid-Atlantic

The Mid-Atlantic Center for Ocean Sciences Education Excellence (MA-COSEE) offers workshops and educational resources for the region's educators. Through its 10 regional centers, COSEE hopes to integrate research and education programs that encourage lifelong learning experiences. COSEE wants to reach out to K-12 educators, students (K-16), coastal managers, families, and underserved audiences. Visit the MA-COSEE website at www.macosee.net to see their current offerings and news.

Nauticus – The National Maritime Center

February 10—Remotely Operated Vehicle wiring workshop for teachers and students. Come learn how to wire your ROV for the 2nd Annual Mid-Atlantic ROV Building Competition. 9:00 to 5:00 p.m. at Nauticus in Norfolk or join us through WebX. For more information about this workshop and the regional please visit: www.marinetech.org/rov_competition/regional_contests/regional_contest.php?rov_competition_id=31

The NOAA Education Resource Center, located on the 3rd floor of Nauticus is usually open 7 days a week. Teachers can pick up free educational materials on the topics of Chesapeake Bay watersheds, weather and oceanography. For teachers, admission to Nauticus is free.

VA Continued

A major new NOAA-funded exhibit is coming to Nauticus in Spring 2007! *Secrets of the Deep* interprets NOAA's National Marine Sanctuary Program and includes a replica of a deep diving submarine used to explore Sanctuary ecosystems across the nation. Planning for an exhibit dedication event is underway.

For more information on NOAA resources and programs at Nauticus, contact Andrew Larkin at andrew.w.larkin@noaa.gov or phone 757-627-3823 ext. 36.

Virginia Aquarium and Marine Science Center

Dressed in their best black-tie garb, some very special guests are coming to the Virginia Aquarium in February. *Penguins: Birds of Play* opens on Saturday, February 17, 2007, and continues through Labor Day. Six South African black-footed penguins on extended loan from the Baltimore Zoo will take up residence in the Aquarium's changing exhibits gallery. The exhibit will focus on several themes: penguin species and their habitats around the world; factors that threaten penguin survival; and penguins' amazing adaptations for living in such cold environments.

Virginia Institute of Marine Science

Blue Crab Bowl

The Blue Crab Bowl celebrates a milestone on Saturday, February 24, 2007! As one of the fifteen original regional competitions of the National Ocean Sciences Bowl, this year marks the 10th Annual Blue Crab Bowl contest. In its ten years, the Blue Crab Bowl has hosted over 45 high schools from across the State and has involved 800 students and dozens of teacher/coaches. This year, sixteen teams will go claw-to-claw for glory and great prizes when they meet at the Virginia Institute of Marine Science campus at Gloucester Point. A list of the 2007 competitors and more information on the Blue Crab Bowl is available on the new website, w.vims.edu/bcb. You can also check out the history of the Bowl in

New on Board

Welcome New President Elect David Christopher, New Virginia Representative Carol Hopper-Brill, and New Delaware Representative Tami Lunsford

At the MAMEA annual conference held in Northeast, MD, elections welcomed three new board members.

David Christopher re-joins the MAMEA Board as President Elect. David is no stranger to the MAMEA Board since he served two years as MAMEA Secretary in 2004-2005. As Outreach Coordinator at the National Aquarium in Baltimore, David coordinates the traveling education programs at the Aquarium. David has been an active member in MAMEA and NMEA for the past 6 years. David is looking forward to using his contacts at Eastern Shore or Southern Maryland environmental education centers to participate in the 2007 MAMEA annual conference.

Carol Hopper-Brill joins the MAMEA Board as the new **Virginia Representative**. A new resident to Virginia, Carol joined MAMEA in fall of 2003 and was impressed with the energy and camaraderie of the membership. She work as a Marine Education Specialist at the Virginia Institute of Marine Science's Marine Advisory Program where her responsibilities include serving as the Co-Regional Coordinator for the Blue Crab Bowl, managing an outreach program using VIMS grad students, and contributing to teacher professional development offerings. As a zoologist, Carol's specialty is marine invertebrates which she had a great

an archive document that recounts the teams and winners from 1998 to 2006. The top team from the 2007 Virginia contest will face rivals from 24 other regions at the national competition to be held April 28-30 at Stony Brook University on Long Island.

The Bridge Update: Ocean Observing Systems

For educators interested in bringing real-time coastal and open ocean data into their classrooms, the Bridge features new section devoted to ocean observing system technology: http://www.marine-ed.org/bridge/index_oos.html. Educators will find a plethora of annotated links to the country's top ocean observing websites here. Also featured are several classroom-ready Data Analysis Teaching Activities (DATAs) that use real-time and archived ocean observing data. These activities are designed to help educators become more familiar with how this cutting-edge ocean observing technology can be employed in teaching the concepts and content of marine science and oceanography. The new Bridge section also includes a downloadable poster, presented at the 2006 Ocean Sciences Meeting, which details the results of the Bridge's online ocean observing system survey conducted earlier this year.

Virginia Naturally

Virginia Naturally offers news of environmental education related grants, training opportunities, conferences and more at www.vanaturally.com/decnews06.html

The Virginia Outdoor Writer's Association, Inc. (VOWA)

announces its 14th Annual Youth Writing Competition. This year's theme is: "My Most Memorable Outdoor Experience." The goal of the contest is to reward young people for excellence in communicating their personal experiences in and of the outdoors. For competition guidelines visit www.vowa.org.vt.edu/youth.html or download www.vowa.org.vt.edu/youthtrng.pdf. Deadline for entries: January 31, 2007.



opportunity to learn about after spending 30 years in Hawaii, where she attended graduate school and enjoyed a career with the University of Hawaii's Waikiki Aquarium. But, early in her graduate career, Carol discovered teaching and so spent more than 20 years interpreting marine science and science process for audiences from K to college, in both informal and formal education contexts.

Tami Lunsford re-joins MAMEA and joins the MAMEA Board as Delaware Representative. Tami Lunsford teaches high school biology and applied marine biology at Newark High School in Newark, Delaware. She also serves on the board of directors for NMEA. Most recently Tami lived in Monterey, California, where she worked for the Marine Advanced Technology Education (MATE) Center and taught Oceanography part-time at Monterey Peninsula College. She is excited to be back as an active member in MAMEA; after living in beautiful and exciting places, it is always nice to come home.

See the back page of the Masthead for a full list of the MAMEA Board.

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Please go to www.mamea.org/board for the complete listing of contact information of Committee Chairs.

Did you know that your MAMEA membership entitles you to grants, scholarships, and invitations to annual events and mini-conferences?

MAMEA on the web
www.mamea.org



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