The Art of Communicating Science

While the process of collecting and analyzing scientific data is of immense importance, translating these findings into understandable and inspiring products is equally important. It could be said that communication is an art form and revolves around telling stories to teach people. How you tell a story can take many forms depending on the information you would like to share and whom you would like to share it with.

With the creative and talented help of Laura Balliett, information we have learned about Jug Bay marshes and the stresses they experience in the face of climate change was represented in a “comic book” format for middle school students. This is an initial attempt our Sanctuary staff has taken to increase science communication to our many different audiences.

If you are interested in or passionate about the need for and importance of science communication, we welcome your creative ideas to help us spread all the knowledge we have gained from Jug Bay through our citizen science program and the work of visiting scientists, research interns, and STEM (science, technology, engineering, and math) students. We would like to believe that with our efforts to better communicate science we can spark changes in awareness, behavior, and/or appreciation for the Patuxent River, its natural resources, and its rich human and cultural history!

Laura Balliett is a middle school STEM teacher in Lakewood, Ohio and the creator of The Cool School Rap Comic. The Cool School Rap Comic is an educational comic series that breaks down complicated science and math curriculum into a highly visual and easy-to-read format.
Exploring Open Science Inquiry at JBWS

by Liana Vitali, Education Coordinator and Naturalist

“Never stop asking questions about the world we live in.”
Glen Burnie students’ personal definition of science inquiry after this program

Open science inquiry can be best described as science by the students, for the students. Each student chooses a question or challenge of personal interest, creates the research methods, determines the equipment needed, creates the data collection schedule, and then straps on his or her hiking boots and heads out to the field. Students are at the helm of the learning process and, while thinking through the design and execution of their study, are often challenged to adopt a heightened sense of self-reliance, self-confidence, and self-directed learning. In short, gone are the days of passing out a lab guide with terms to memorize and predetermined methods to follow. This is as close to practicing real field science as it gets, dirt under the nails and all!

From October through December 2015, Jug Bay Wetlands Sanctuary welcomed 11 students from the Anne Arundel County STEM (science, technology, engineering and math) Community Challenge Program. The program pairs high school juniors from South River, Glen Burnie, and North County High Schools with a professional mentor who guides them through solving a real-world STEM challenge in our county. Instead of receiving a preconceived challenge, our students were introduced to the practice of open science inquiry and were invited to pursue a local environmental or sociological issue that spoke to them. For many of the students, this marked one of the first occasions in their educational journey where they sat in the driver’s seat.

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“The CAP was an opportunity for students to take their project one step further by engaging their peers, families, neighbors, or even the local scientific community with their findings. Most importantly, the students were challenged to design a CAP that pushed them outside their comfort zone, to the place where real learning happens. Taking this advice to heart, the student groups each chose a project that pushed them towards developing skills that challenged
Dear Friends,

On April 9th we celebrate the 30th anniversary of The Friends of Jug Bay, Inc. (FOJB) as a nonprofit research and education corporation. It is wonderful that our original principles have endured and flourished for three decades. The ethos of our founding members firmly established the idea that wetlands form a keystone environmental link to the overall quality of life. They believed that research and education are necessary to engage the public and to inform them about the important services wetlands provide. As a component of the Anne Arundel County Department of Recreation and Parks, the Jug Bay Wetlands Sanctuary’s primary purpose is actually recreation and not necessarily research and education. Therefore, if the concepts of education and research were to be achieved, a private, supporting organization was necessary to raise funds to provide instruments, lab equipment, staff development, research internships, and education internships. With this support the Sanctuary staff and numerous volunteers have been able to develop and nurture these efforts and to scale them for broader public participation.

None of this, however, could occur without the support of the members of FOJB. That support, however, is not necessarily financial. It is the personal time that each of you devotes to these research and education programs that makes them successful. Our members have brought a spectrum of skills that span the infrastructure support for research from laying out the geographic grid to mapmaking to data analysis. Some of you have undertaken your own research studies and published them, while some of you have continued the long-term, decades-long studies on water quality, vernal pools and waterbird surveys.

Today these efforts are more collectively referred to as citizen science. There is no succinct definition of the term, and it probably means different things to different people. Although the term seems new, one must remember that amateurs discovered the fundamentals of many sciences. People like Franklin, Jefferson, and Thoreau are well recognized citizen scientists, but there are many less-noted individuals who observed weather patterns and maintained almanacs for farmers and fishermen. Perhaps the most famous citizen science project is one you may have participated in, the Audubon Christmas Bird Count. It demonstrates the power and scope of citizen science on the longevity and geographic scale that would be impossible without the participation of hundreds of volunteers, particularly a century ago.

Broadly speaking, citizen science is the participation of the public in a scientific project. Most often today one finds citizens involved in ecological and environmental studies that

- Provide data collection for large-scale, long-term research and monitoring
- Promote environmental stewardship
- Foster public involvement in environmental decision making
- Spread knowledge and scientific literacy
- Encourage collaboration
- Address questions of local concern
- Engage the public
- Provide a form of recreation with a civic purpose

I think the future of citizen science at Jug Bay bodes well. The membership of FOJB and their commitment have remained steadfast over the past few years in spite of the economic setbacks experienced in general. At the same time, the weather patterns and needs are growing. Wetlands and intertidal zones are the most active life zones on the planet. They are the bellwether of changes we may expect to see in our broader environment. Climate change and the implementation of nutrient and pollution limits present challenges for understanding how our environment will respond.

I am particularly enthusiastic about the Adopt-a-Plot program Mel Fegler is creating. It will offer a plethora of opportunities to participate in the establishment of a program during a time of rapid change. The northeast states are among the areas with fastest rising temperatures in the country, and within this region, upper and lower southern Maryland are the subregions with the fastest changes. By 2050 these regions are expected to experience more than 60 additional days per year above 90°F compared to the end of the last century, while there will be a significant decrease in the days below 32°F. In addition, the northeast coast is expected to undergo the fastest sea level rise, and the Chesapeake Bay is expected to lose the major wetlands on the Eastern Shore. The observations at Jug Bay will make a major contribution on how riverine estuaries respond to the double threat of temperature and sea level rise.

Please come and join Mel as we undertake what promises to be an exciting contribution of citizen science during the next three decades.

Al Tucker, President

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Friends of Jug Bay
Annual Meeting

Sunday, April 10, 2:30 – 5:30 pm
Please join us for our annual meeting.
Activities include a keynote speaker and the presentation of the Jug Bay Award to a leader in Patuxent River conservation.
Preceding the business meeting, there will be a variety of sweet and savory finger foods to enjoy with fellow Friends and Sanctuary supporters.
Please RSVP with acceptances only at www.friendsofjugbay.org/events.html.

We welcome new and returning FOJB members:

Jeannine Allen     Robert Mitchell
Jane Berol         Bary Poindexter
Craig Beyles       Lisa Railey
Lila Colaianni     Jake Reilly
Al Conner          Gary Reisner
Jeffrey Davis      Steve Richardson
Karen and Glenn    Mary K. Sistik
Edgecombe          John Timm
Amy Fernandes      Susan Waddington
Judith Hartman     Jerome A. White
Howard Hogan       Pamela Wright
Nathan Miller
them. Six of the students took a few chest-puffing breaths and presented their work to the Friends of Jug Bay board. Another group adopted the role of “Naturalist for a Day” to design and independently lead a water quality field trip to Jug Bay for their peers. Finally, recognizing that some schools face limited field trip capabilities, our last student group designed and led an in-class “field trip” to Jug Bay by hosting six hands-on water quality learning workshops for their peers.

“I’ve learned that [public speaking] isn’t going to kill me!”
North County student after completing the open science inquiry program at Jug Bay

While student response to this first open science inquiry opportunity at Jug Bay was positive, we were especially interested to learn if the experience affected them on a deeper, personal and professional level. To attempt to measure this, each student voluntarily participated in a pre and post program survey modeled after the Self-Directed Learning Readiness Scale published by Dr. Lucy M. Guglielmino. Keeping in mind that our initial sample size was fairly low, we were excited to see that the findings suggest a statistically significant increase in the students’ “ability to use background experience and knowledge to suggest alternate ideas/perspective on a research study and to use background experience and knowledge to suggest improvements for future research studies.” Additionally, select measurements indicated a 20–30% increase in students’ self-directed learning and self-confidence values.

By the time this article publishes, we’ll be introducing our next batch of students to open science inquiry at Jug Bay. Keep an eye on Jug Bay’s Facebook page for photos and updates on students’ projects!

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She began creating these comics over three years ago as part of her effort to reach the reluctant readers in her classroom. These students were missing valuable content and struggling to reach their grade level standards. In response to this, she drew some of the concepts in comic form hoping to ignite an interest in reading the information. To her surprise, it worked. Her students loved the comics, and since then, the series has been evolving.

Now, the series has expanded beyond simple one-page comics and is now available as full lesson plans and activities. These lesson plans and activities provide content and activity procedures all in comic form. This makes it easy for students of all learning levels to grasp concepts and understand instructions. All of the comics she creates align with standards and promote taking an active role in the learning process. In the future, she would love to expand the comic series to tackle even more subject matter, including health, environmental issues and life skills.

The Cool School Rap Comic is available for download in PDF form on TeachersPayTeachers and The Cool School Rap website (www.coolschoolrap.com). Please share this amazing learning tool with young readers and your educator friends.
Guided Birdwalk
First Saturday each month, 8:00 - 11:00 am
Ages: 12 and older
Fee: $6 per vehicle entrance fee
Learn the skills of identifying birds by sight and sound on a guided hike with an experienced birder. Binoculars and field guides are available to borrow. Registration required: Call 410-741-9330 or e-mail programs@jugbay.org.

Preschool Nature Series
First Friday of each month (generally), 10:00 - 11:00 am
Ages: 3-5
Fee: $2 per child
Children enjoy sensory activities and learn about nature through an interactive story, craft and hike. Extend your visit with free play at our Nature Play Space. Registration required through Active Net: March 3 (#7212), April 1 (#7225), May 6 (#7227)

Soup and Science Lecture Series
Sunday, March 13, 12:00 - 3:00 pm
Ages: Adults
Fee: Free
Enjoy hearty homemade soup and fresh bread with fellow nature lovers at the Jug Bay Wetlands Sanctuary. Then sit back with a cup of coffee or tea and dessert and enjoy listening to our guest speakers Rick Borchelt and Tom Stock present MD100 Butterfly Big Year - The Quest to Find 100 Species of butterflies in Maryland and DC in a Single Year.
Registration required: Call 410-741-9330 or register online at www.friendsofjugbay.org.

Spring Cleaning River Clean-Up [Patuxent Wetland Park]
Tuesday, March 15, 10:00 am - 2:00 pm
Ages: 10 and older
Fee: Free
Help us have a clean spot for the Big Bad Fishing Tourney. Patuxent Wetland Park is a popular fishing spot in our community and we want everyone to enjoy a clean and safe space. Participants will receive a voucher for 1/2 off entry into the spring fishing tournament to be held March 22-26.
Registration required: Call 410-741-9330 or e-mail rpfegl00@aacounty.org.

Spring Equinox Hike
Sunday, March 20, 5:00 - 7:30 pm
Ages: 8 and older
Fee: Free with $6 per vehicle admission fee
Join Master Naturalist Mike Quinlan for a leisurely hike through the Sanctuary to see and hear the signs of spring. Wear shoes that can get wet and muddy, just in case. Binoculars and cameras are always a good idea. We’ll end by watching the sunset from the observation deck.
Registration required: Call 410-741-9330 or e-mail programs@jugbay.org.

Open Hours:
Sanctuary Wetlands Center: Wednesdays, Fridays, Saturdays and Sundays, 9:00 am – 5:00 pm
Glendening Nature Preserve: Wrighton Road entrance daily, gate open 9:00 am – 5:00 pm; Plummer House entrance, gate open 9:00 am – 5:00 pm (trails, butterfly garden, dogs on leash)
Patuxent Wetland Park: daily, dawn to dusk (fishing, hand-carried boat launch)
Wootons Landing Wetland Park: daily, dawn to dusk (fishing, loop trail, hand-carried boat launch)

Sanctuary Wetlands Center admission fee: $6.00 per vehicle
Free for current Friends of Jug Bay members, active volunteers, and active military.
There are no fees to visit our other sites.
Visit www.jugbay.org for directions, information and updates to our schedule.

Registration is required for all programs. Please call 410-741-9330 or email programs@jugbay.org to register. All programs meet at the Wetlands Center at 1361 Wrighton Road unless otherwise noted. Program fees are in addition to vehicle admittance fees. An adult must accompany children under 13.
Annual Patuxent River Cleanup [Patuxent Wetland Park]  
Saturday, April 2, 9:00 am - 12:00 pm  
Ages: All  
Fee: Free  
Hill’s Bridge at Route 4 is a popular location for fishing and for paddlers to put in. Help us send a positive message to users of the area by cleaning up the riverfront. Wear shoes that can get muddy. Bring thick work gloves if you have them. Registration required: Call 410-741-9330 or e-mail programs@jugbay.org.

Educator Open House  
Saturday, April 2, 10:00 am - 2:00 pm  
Ages: Adults  
Fee: Free  
The Educator Open House is a field trip for teachers, parents, or any educator interested in experiencing a field trip to Jug Bay through the eyes of the student. We’ll spend the day exploring the boardwalks, forests, and lab space of the Sanctuary along with the resources available to help you plan your visit to Jug Bay, such as lesson materials and school bus scholarships. Bring a bag lunch and comfortable outdoor shoes and clothing. Space is limited to 30 participants. Registration required: Call 410-741-9330 or e-mail programs@jugbay.org.

Butterfly Phenology Training [Plummer House]  
Sunday, April 3, 1:00 - 3:00 pm  
Ages: 15 and older  
Fee: $10 per abode, vehicle entrance fee included  
Join a sanctuary naturalist to learn all about toads. We'll share some amazing facts, learn how to welcome amphibians into your yard by making and taking a toad abode of your own! All materials provided. Registration required: Call 410-741-9330 or e-mail programs@jugbay.org.

Invasive Plant Removal [Glendening Nature Preserve]  
Friday, May 6, 1:00 pm - 3:00 pm  
Ages: 15 and up  
Fee: Free  
Come and help us maintain invasive plant species while enjoying our beautiful trails. Wear closed-toe shoes and clothing that can get dirty. Gloves and hand tools are available to borrow. Registration required: Call 410-741-9330 or e-mail rpfeig00@aacounty.org.
that you can take home and put in your yard. Some drilling and screwdriving involved. Bring battery powered drills and screwdrivers if you have them. We will have some available for use. Registration required: Call 410-741-9330 or e-mail programs@jugbay.org.

Pollinator Series: Bumble Bees
Sunday, May 15, 9:30 am - 2:30 pm
Ages: 18 and older
Fee: $15 per person
(Active Net Activity #7237)
Pollinators are responsible for an enormous percentage of fruit, vegetable and nut production on our planet. However, many don’t know about the other valuable roles pollinators play, their needs and challenges, and what we can do to keep their populations healthy. Help us monitor our pollinator population as part of an effort to make vital meadow management decisions for our properties. In this series, participants will join us in our monthly collections, learn how to identify pollinators, and learn a different valuable habitat lesson for a specific pollinator group each time. Registration required through Active Net.

Canoe Guide Training
Saturday, May 21, 10:00 am - 4:00 pm
Ages: 18 and older
Fee: Free
Paddling enthusiasts wanted. Do you love to get out on the water? Here is your chance to share your love with others by leading canoe and kayak trips on the Patuxent River. New and returning canoe and kayak volunteers are required to attend our canoe training session before leading trips. Dress accordingly to enter the water for wet exits and rescue demonstrations.
Speaking Their Language

by Melinda Fegler, Volunteer and Stewardship Coordinator and Naturalist

Communicating ecology to non-ecologist stakeholders can be complicated by strange vocabulary, posturing on the part of the messengers, and the public’s varied perception of scientific knowledge. Furthermore, ecology itself is so broad a category that specialization among ecologists, while necessary and inevitable, also creates barriers to communication within the community. How, then, can we hope to have a productive conversation with the reluctant, the uninspired, and the adamant general public?

A productive conversation is not just about getting stakeholders together but understanding who those stakeholders are. Politeness is not enough. There is an infamous and comical example about a young biologist excited that she was able to arrange a meeting with leaders of the Montana sheep ranch community. The young woman, with the best of intentions, tried to convince the ranchers that reintroducing wolves would be safe for their herds because the wolves would be on birth control. The ranchers, naturally confused, asked the young woman if she realized that the wolves’ intention was to eat the sheep.

As in the example of ranchers and natural resource groups above, there is often a conflict between stakeholder groups that share a geographical area without specific, non-overlapping resource allocations. How do we as messengers of science-informed policy relay our information to these diverse groups to get positive results? As in many questions about resource management, the answer is case specific—messengers of science-informed policy must make a deliberate effort to understand how ecological services are valued by different stakeholder groups.

It has always been a struggle to define ecological services quantitatively. Quantitative methods are often complicated, and when results come out as gibberish to a general audience, this creates an even larger disconnect between ecologists and public stakeholders. Understanding the social values people hold is key to understanding how to engage them. Ecological social values, more specifically defined as the qualities that people believe are carried by natural systems, lend insight into what stakeholders do and do not consider important (Brown 1984; Rolston 1988).

For example, C. J. van Riper and colleagues surveyed two user groups in conflict in a protected area to compare their scores on 12 social values. Key to starting the project was to give the user group participants the first voice. Allowing the stakeholders to name the ecological services they most valued and why created an instant line of communication between the...
Volunteer Opportunities

- Most of our projects require no experience, come to learn!
- Vehicle admittance fee waived for volunteer events.
- To sign up or for more information, call 410-741-9330, or e-mail Volunteer & Stewardship Coordinator, Melinda Fegler, at rpfegl00@aacounty.org.
- Groups must call to arrange a separate event, unless otherwise noted.

Winter Waterbird Survey
Thursday, March 3, 7:30 - 9:30 am
Ages: 12 and older
Fee: Free
Come and join the amazing volunteer birding team of Jug Bay Wetlands Sanctuary! The ornithological knowledge of this team makes for a phenomenal learning and collaborative experience. All of this in the beautiful early morning light of the Jug Bay wetlands on the Patuxent River. Registration required: Call 410-741-9330 or e-mail rpfegl00@aacounty.org.

Vernal Pool Monitoring
Saturday, March 5; Friday, March 11; Saturday, March 19; Friday, March 25; Saturday, April 2; Friday, April 8; Saturday, April 16; Friday, April 22; Saturday, April 30; Saturday, May 7; Friday, May 13; Saturday, May 21; and Friday, May 27, 10:00 am - 2:00 pm
Ages: 10 and older
Fee: Free, vehicle entrance fee waived
Join our vernal pool monitoring volunteer team. We will meet at 10:00 am and hike out to assess hydrology and salamander and frog activity at each of our pools. Volunteers experience the variety of Jug Bay Wetlands Sanctuary habitats as well as those of Glendening Preserve. Registration required: Call 410-741-9330 or e-mail rpfegl00@aacounty.org.

Adopt-a-Plot Training
[Plummer House]
Saturday, March 12, 10:00 am - 2:00 pm
Ages: 15 and older
Fee: Free
Come learn the ropes of our Adopt-a-Plot Monitoring Program. Volunteers on this team will have an opportunity to immerse themselves in plots in a variety of habitats. Monitoring data will be utilized to map out several diagnostic metrics to help the Jug Bay Wetlands Sanctuary staff make informed management decisions. Participants will learn to identify plants, signs of several animal species’ presence and other key factors that enable us to understand this beautiful place even more! Registration required: Call 410-741-9330 or e-mail rpfegl00@aacounty.org.

Winter 2016 Volunteers

Lawrence Ash
Katherine Bae
Susan Blackstone
Dick Blass
Cynthia Bravo
Susan Brockman
Jeff Campbell
Karen Caruso
Alan Christian
Rebecca Christopher
David Davis
Cathryn Dippo
Ben Doody
Kim Elliott
Lee Fisher
Elaine Friebele
Madeleine Gardiner
Dane Goebes
Christine Gramlich
Jim Harle
Regina Kreger
Dave Larrabee
Eric Lind
David Linthicum
Alec Loudermilk
Andrea Loudermilk
Cliff Loudermilk
Rob McEachern
Pat Melville
Austin Milligan
Dave Mozurkewich
Dotty Mumford
Jennifer Muro
John Norris
Jim Oland
Siobhan Percey
Tom Petska
Sean Phillips
Michael Quinlan
Com Raine
Colin Rees
Gordon Reynolds
Doris Schnitz
Gary Sepulveda
Mary Kay Sutik
Bob Smith
Chris Taylor
Sandy Tehik
Peter Unmonen
Sue Williams
Bob Williams
Kristine Wood

Thank You!

Did you know that Jug Bay is popular resting and refueling stop for many migratory birds? Or that ships used to turn around in the “jug handle” before it become a marsh back in the 1600s? There are a million reasons why Jug Bay is a unique and treasured natural area on the Patuxent River, including its close partnership with the Chesapeake Bay National Estuarine Research Reserve allowing for science communication to reach an even wider audience!

Just to refresh, Jug Bay is one of the three sites of the Chesapeake Bay National Estuarine Research Reserve (aka the Reserve) that represents the Bay’s tributaries. Monie Bay on the Eastern Shore and Otter Point Creek in Harford County are the other two sites that comprise the Reserve, which represent the lower Bay and the upper Bay, respectively. The Reserve has teams (research, stewardship, training, and education) that work together with the Jug Bay Wetlands Sanctuary, the Friends of Jug Bay, the local community, and other partners to guide decision makers, protect estuaries and natural areas, and communicate science to anyone and everyone.

End of refresher; now let’s get back to science communication. How does the Reserve communicate science? Let us count the ways…

**Blogs.** Two blogs often feature Jug Bay data to illustrate points about climate change, water quality changes, marsh health, and the like. One blog ([SWMPrats.net](http://SWMPrats.net)) is highly technical and explains how to make graphs and run statistical analyses, so it isn’t for everyone, but it sure is fun to see Jug Bay’s data displayed! This blog’s main audience consists of researchers from the other 27 Reserves that are within the National Estuarine Research Reserve System, which means that Jug Bay data is discussed by researchers all over the United States!

The blog Science Pensieve ([SciencePensieve.org](http://SciencePensieve.org)) is “a place where you can watch a science project occur in real time.” Harry Potter fans can explain how a “pensieve” is used to store your thoughts: In Dumbledore’s words, “I use the Pensieve. One simply siphons the excess thoughts from one’s mind, pours them into the basin, and examines them at one’s leisure. It becomes easier to spot patterns and links, you understand, when they are in this form.” So if you were ever curious about what a scientist’s thoughts look like, then you are in luck!

The team of scientists writing Science Pensieve came together from many different fields of study to investigate climate impacts in the Chesapeake Bay region; therefore the research studies and data collected at Jug Bay are part of a larger network looking for trends on a regional, rather than local, scale.

**Newsletter articles.** The Reserve contributes an article to each issue of Marsh Notes, so keep an eye out for our articles so that you can hear more about estuarine science! We also write articles for Otter Point Creek’s newsletter, The Otter’s Tale; Maryland Department of Natural Resources magazine; and the Chesapeake and Coastal Service’s newsletter, In The Zone.

**Science Collaborative grant projects.** The Reserve is also partnered with the National Oceanic and Atmospheric Administration, which provides funding for...
“science collaborative” projects that encourage different organizations and scientists to work together to answer research questions that address a management issue that influences estuaries. Last year CBNERR wrapped up the Deal Island Peninsula Marsh and Community Project, a science collaborative project conducted by the Reserve and various scientists at the University of Maryland. This social science and natural science project focused on ways to increase the resilience of coastal marshes and communities in the face of coastal flooding, erosion, and other changes on the Deal Island peninsula.

A website (http://www.dealislandmarshandcommunityproject.org/) features all the basic info about this collaborative project, but, more importantly, community meetings are held in Deal Island where local residents and other interested partners gather for some good old face-to-face communication. Discussions and presentations of various topics result in a very strong community network. Many scientific journal articles are also currently underway that will discuss the findings of this research.

Teen Leadership Paddle presentations. The annual Teen Leadership Paddle on the Patuxent that encourages leadership and stewardship in our high schoolers and concludes with a presentation of the teens’ scientific findings and observations gathered during their week-long sojourn. (The public is always welcome to attend!) We encourage a culture of science understanding and communication through the process of having teens gather data, look for trends, think of solutions, and communicate it to the public.

Professional training. Remember how I mentioned that the Reserve has several teams? The training team is formally called The Maryland Coastal Training Program (CTP), and it is at the forefront of science communication. This Reserve team coordinates various events and workshops that helpdecision makers and professionals become equipped with the knowledge and understanding of coastal issues needed to perform their jobs. Some examples of CTP workshops and meetings include Wetland Plant Identification (held at Jug Bay), The Patuxent River Conference, Green Infrastructure for Coastal Resilience, and many more.
2016 Patuxent River Conference
“Exploring Environmental Education & Science Communication Along the Patuxent River”

The Patuxent River Conference is the premier forum uniting scientists and researchers with formal and informal educators passionate about the health and future of the Patuxent River.

The Conference brings together those who are using the power of science to tell the story of the River with local educators who are dedicated to sharing the story with students, the future stewards of the River.

Learn more at www.paxcon.com (site launches March 15, 2016).

Registration and Call for Proposals Opens March 15, 2016!