



DETAILED AGENDA

MONDAY, JAN. 28

8:00	a.m.	Registration/Breakfast
8:45	a.m.	Welcome: Jennifer Adkins
9:00	a.m.	Plenary Speakers: Mark Botton and Bob Loveland
10:00	a.m.	Break
10:15	a.m.	Concurrent sessions
12:00	p.m.	Lunch and Speakers
1:30	p.m.	Concurrent Sessions
3:00	p.m.	Break
3:15	p.m.	Concurrent Sessions
5:00	p.m.	Poster Session
6:30	p.m.	Summit Dinner
7:30	p.m.	Special Session: CCMP Bingo

* Indicates the name of a student Presentation or Poster

CONCURRENT SESSIONS BY ROOM

9:00	PLENARY SPEAKERS, GRAND BALLROOM Please welcome our plenary speakers, Dr. Mark Botton and Bob Loveland, who will give their talk, "Forty Years on the Beach: Eyewitnesses to the American Horseshoe Crab and its Essential Habitat in Delaware Bay"		
	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	Water Quality I Moderators: Drew Budelis & Ken Najjar (Associated Posters 26-30)	Strategic Scientific Communication Moderators: Jay Springer & Douglas Janiec	A Decision Tool for Guiding Coastal Wetland Restoration in New Jersey Moderators: Josh Moody & Kaitlin Collins
10:15	Anthropogenic Changes to the Raritan River, New Jersey from Pre-European Settlement Through the Present Margaret Christie et al.	Effective Communication with Decision Makers Jeanne Herb	This workshop will serve as an introduction to the deci- sion tool for guiding coastal wetland restoration, and to solicit feedback from the restoration, practitioner, and regulatory communities of the Delaware Estuary.
10:30	Sediment Diagenetic Processes in the Tidal Fresh Delaware River Paula Kulis, Kinman Leung, Eileen Althouse, Damian Brady, Jeffrey Cornwell, Michael Owens, Joanna York	Strategic Science Communication & Stakeholder Engagement in the Delaware Estuary Dana Patterson	

DETAILED AGENDA

MONDAY, JAN. 28, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
10:45	<p>Adaptation Planning for Sea Level Rise and Extreme Storms in the Delaware Estuary: Lessons from the Philadelphia Water Department</p> <p>Abby Sullivan, Avery Livengood, Julia Rockwell, Mark Maimone, Paula Kulis</p>	<p>Communicating Environmental Statistics for Public Consumption</p> <p>Salvatore Mangiafico</p>	Decision Tool Continued
11:00	<p>Role of Coastal Modeling in Long Island Nitrogen Managing Efforts</p> <p>Andrew Thuman</p>	<p>Using Data to Maximize Outreach: Philadelphia's Approach</p> <p>Hailey Stern</p>	
11:15	<p>A Field Study of Biochar Amended Soils: Water Retention, Infiltration and Nutrient Removal from Storm Water Runoff</p> <p>Joseph Brown*, Paul Imhoff, Larry Trout, Charles Hegberg, Ali Nakhli</p>	<p>Effective Science Communication: Principles and Visualization Techniques</p> <p>Alexandra Fries</p>	
11:30	Q&A	<p>Psst ... There's Science in Your Water</p> <p>Brian Rademaeker</p>	
11:45	BREAK	Q&A	

LUNCH SPEAKERS, 5TH FLOOR PENTHOUSE BALLROOM

Please welcome our lunchtime speakers who are members of the Partnership for the Delaware Estuary Steering Committee on the importance of the recently revised Comprehensive Conservation and Management Plan for the Delaware Estuary.

Debbie Mans, New Jersey Department of Environmental Protection

Steve Tambini, Delaware River Basin Commission

Jennifer Orr-Greene, Pennsylvania Department of Environmental Protection

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	<p>Living Resources</p> <p>Moderators: Jerry Kauffman & LeeAnn Haaf (Associated Posters 2-8)</p>	<p>Utilities and Sustainability</p> <p>Moderator: Brittany Musolino</p>	<p>New Jersey RGGI — Carbon Sequestration Opportunities</p> <p>Moderator: Liz Semple</p>
1:30	<p>Investigating the Community of Fishes and Invertebrates Inhabiting Two Living Shoreline Projects</p> <p>Jenny Shinn, David Bushek, Lisa Calbo, Moses Katkowski, Adrianna Zito-Livingston</p>	<p>The Sustainable Treatment Plant</p> <p>Dennis Palmer</p>	<p>The purpose of this workshop is to review and discuss opportunities for using Regional Greenhouse Gas Initiative funding on projects designed to sequester carbon in forests and marshes.</p>
1:45	<p>Variation in Swimming Ability Among Blue Crab (<i>Callinectes sapidus</i>) Larval Broods</p> <p>Joseph Caracappa*, Daphne Munroe</p>	<p>Sustainable Energy Management at a Water Utility</p> <p>Emily Hill</p>	
2:00	<p>Six Years of reTURN the Favor: Horseshoe Crab Conservation in New Jersey through Community Engagement</p> <p>Lisa Ferguson, Laura Chamberlin</p>	<p>BREAK</p>	
2:15	<p>Regenerative Stream Channel Serves as a Nature-like Fish Passageway</p> <p>Amanda Poskaitis, Roman Jesien, Katherine Phillips, Kevin Smith, Keith Underwood</p>	<p>South Jersey Scrub Round table "Not Your Typical Cleanup" From Trenton to Cape May</p> <p>Moderators: Amanda Lotto & Brittany Musolino</p>	
2:30	<p>Dove's Nest Pollinator Mitigation Site</p> <p>Ken Dunne, Erika Furlong, Eric Ludwig, Todd Gsell</p>	<p>(See abstract book for description)</p>	
2:45	<p>Q&A</p>		

DETAILED AGENDA

MONDAY, JAN. 28, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	<p style="text-align: center;">Monitoring I</p> <p style="text-align: center;">Moderators: Angela Padeletti & John Yagecic (Associated Posters 9-14)</p>	<p style="text-align: center;">Environmental Justice Breaking Barriers</p> <p style="text-align: center;">Moderator: Renee Brecht-Mangiafico (Associated Posters 1)</p>	<p style="text-align: center;">Oil In the Bay —15 Years After the Athos I Spill</p> <p style="text-align: center;">Moderators: Peter Rowe, Emily Maung-Douglass, Christopher Petrone & Ann Faulds</p>
3:15	<p>Modeling and Monitoring Conservation Practices with WikiWatershed</p> <p>Steve Kerlin, Dave Arscott, David Bressler</p>	<p>Our Original Instructions</p> <p>Dennis Coker</p>	<p>This special session, organized by Sea Grant, is a retrospective on a major 2004 spill on the Delaware River. Do we have better capacity to respond to spills? How can we prevent spills within the Delaware Estuary?</p> <p>Presenters and panelists include:</p> <ul style="list-style-type: none"> • Bennett Anderson; Delaware DNREC • Michel Boufadel; New Jersey Institute of Technology • Frank Csulak; NOAA • Rich Gaudiosi; Delaware Bay River Cooperative • Simeon Hahn; NOAA • Ed Levine; NOAA • David Ormes; U.S. Coast Guard • Robert Van Fossen; New Jersey DEP • Jeffrey Wakefield; CARDNO
3:30	<p>View from Above Using Drones for Monitoring</p> <p>Steven Jacobus</p>	<p>UrbanPromise’s River Guides Program-Ecology History</p> <p>Rachel Abbott</p>	
3:45	<p>Drone Mapping</p> <p>Dave DuMont</p>	<p>Farm Workers in a Changing Climate</p> <p>Jessica Culley</p>	
4:00	<p>A Next Generation Water Observing System for the Delaware River Basin</p> <p>Jeffrey Fischer, Chad Wagner</p>	<p>A Latin American Conservationist in New Jersey in the 1990’s; Planting the Seeds for Conservation in the 21st Century</p> <p>Dennis Miranda</p>	
4:15	<p>Monarch Rapid Assessments on Delaware’s Roadsides</p> <p>Jamie Pavona, Erika Furlong, Ken Dunne, Alison Cariveau</p>	<p>Executive Order 23 — Environmental Justice Update</p> <p>Riche’ Outlaw</p>	
4:30	<p>Monitoring Inventory and Needs Assessment for the Delaware Estuary</p> <p>Emily Baumbach, et al.</p>	<p>Building an Equitable Watershed</p> <p>Katharina Miguel</p>	
4:45	Q&A	Q&A	



DETAILED AGENDA

TUESDAY, JAN. 29

- 8:00 a.m. Registration/Breakfast
- 9:00 a.m. Concurrent Sessions
- 10:45 a.m. Break
- 11:00 a.m. Keynote Speaker: Dr. Brandon Jones
- 11:45 a.m. Lunch
- 1:15 p.m. Concurrent Sessions
- 2:45 p.m. Break
- 3:00 p.m. Concurrent Sessions
- 4:45 p.m. Break
- 5:00 p.m. Poster Session and Happy Hour
- 7:00 p.m. Dinner on your own

CONCURRENT SESSIONS BY ROOM

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	Restoration I Moderators: Metthea Yepsen & Larry Malizzi (Associated Posters 15-25)	Science Class Moderators: Emily Baumbach & Brittany Musolino	Delaware River Basin Commission Water Quality Management Moderators: Mark Biddle & Kristin Regan
9:00	Coupling Hydrological Prisms to Inundation Times and Energy Signatures in Salt-Marsh Creation and Restoration Ken Dunne	Using the Preserve as an Outreach Tool Bob Collins, Amy Barra	Water Quality Management Part 1: The Need and Role for Clean Water Regulation Steven Tambini, Nansoo Suk, John Yagecic
9:15	Marsh Restoration Projects: Runnels and Breakwater Enhancement Heidi Hanlon, Nicole Savona	Diverse Outreach Tools Create Resilient Relationships in Cobbs Creek Dan Schupsky	Implementation of Water Quality Management Part 2: Applications, Successes and Challenges John Yagecic, Steven Tambini, Nansoo Suk

DETAILED AGENDA

TUESDAY, JAN. 29, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
9:30	<p>Salt Hay Farm Restoration Notes: Sediment Accretion and Vegetation I</p> <p>Kurt Philipp</p>	<p>What's happening with NGSS?</p> <p>Tonyea Mead</p>	<p>Water Quality Management by DRBC Part 3: Water Quality Challenges</p> <p>Namsoo Suk, Steven Tambini, John Yagecic</p>
9:45	<p>Using Dredged Material to Establish Habitat for Colonial and Marsh-nesting Birds</p> <p>Lenore Tedesco, Lisa Ferguson, Monica Chasten</p>	<p>Can Youth Be the Solution to Healthier, Sustainable Watersheds?</p> <p>Emma Melvin</p>	BREAK
10:00	<p>Let's Get Physical: Post-Construction Results of Structural Monitoring of Oyster Reef Breakwaters at Gandy's Beach, NJ</p> <p>Adrianna Zito-Livingston, Danielle McCulloch, Joshua Moody</p>	<p>Understanding the Urban Watershed Middle School Curriculum: Hands-On Learning About Water Systems and Infrastructure, the Watershed and How to Ensure a Sustainable Future</p> <p>Ellen Schultz</p>	<p>Philadelphia Water Department Water Quality Planning Moderators: Kelly Anderson & Lance Butler</p> <p>Philadelphia Water Department Ammonia Reduction Planning</p> <p>Jay Cruz</p>
10:15	<p>Sea Grass Plantation: A Model Hybrid Living Shoreline Project</p> <p>Douglas Janiec</p>	<p>Connecting Teachers and Marine Science Researchers in the Science Classroom: Integrating Real Time Data into the Classroom in Order to Improve Student Learning</p> <p>Dina DiSantis</p>	<p>Philadelphia Water Department Salinity Intrusion Planning and Assessment</p> <p>Molly Hesson, Ramona McCullough</p>
10:30	BREAK	BREAK	<p>Philadelphia Water Department Strategic Planning Using High Resolution Water Quality Model in the Urban Tidal Freshwater Delaware River</p> <p>Kinman Leung, et al.</p>

CONCURRENT SESSIONS BY ROOM

KEYNOTE SPEAKER, GRAND BALLROOM			
11:00	Please welcome our summit keynote speaker, Dr. Brandon Jones, who will give his talk, "It's All Good: The Reciprocity of Diversity in STEM."		
	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	Wetlands Moderators: Dorina Frizzera & Martha Maxwell-Doyle (Associated Posters 31-34)	Place making Moderators: Sarah Morales & Kate Layton	Marine Debris and Plastic Pollution Moderators: Virginia Vassalotti & Juni Alam
1:15	A Dendroecological Investigation of the Demise of an Atlantic White Cedar Freshwater Tidal Wetland in Kent County, Delaware Stephanie Stotts, Olivia Gullede	National Consortium for Creative Place making - How to Work With Artists to Create Environmental Projects Leo Vasquez	Reduce Litter in the Delaware River: An Action Plan to Clean Up and Reduce Debris on the Jersey Side Swarna Muthukrishnan, Alison McCarthy
1:30	Freshwater Wetland Habitat Responses to Saltwater Intrusion and Increased Flooding in Delaware Erin Dorset, Alison Rogerson		The Distribution of Microplastics in the Delaware Bay Jonathan Cohen, Anna Internicola
1:45	Wetland Condition in the Smyrna River Watershed, Delaware Alison Rogerson, Erin Dorset, Brittany Haywood, Kenny Smith		EPA's Trash-Free Waters Program: Regional and National Program Highlights Kelly Somers

DETAILED AGENDA

TUESDAY, JAN. 29, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
2:00	<p>Mid-Atlantic Tidal Rapid Assessment Updates: Development of a Tidal Freshwater Protocol</p> <p>Erin Dorset, Alison Rogerson, Brittany Haywood, Kenny Smith, LeeAnn Haaf</p>	<p>Collaborating With Art: How Science and Art Collaborative Projects Can Both Show and Help Solve Ecological Issues.</p> <p>Stacy Levy</p>	<p>Preventing Plastic Pollution Through Grassroots Activism</p> <p>John Weber</p>
2:15	<p>Determining Suitability of Sediments for Rebuilding Drowned Coastal Wetlands</p> <p>Brittany Wilburn, Kirk Raper, Camila Ibarra, Andrew Gray, Kenneth Raposa, Elizabeth Watson</p>		Q&A
2:30	Q&A		



	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	<p>Blue Collar Bivalves</p> <p>Moderators:</p> <p>Joe Tarsavage & Danielle Kreeger</p>	<p>Stem And Education</p> <p>Moderator:</p> <p>Brittany Musolino</p>	<p>Water Quality II</p> <p>Moderators:</p> <p>Kelly Somers & Namsoo Suk</p>
3:00	<p>Trials And Tribulations of Moving Oyster Aquaculture to Subtidal Leases in Delaware Bay</p> <p>David Bushek, Lisa Calvo, Eleanor Bochenek, Kevin Sullivan, Brian Harman, Barney Hollinger</p>	<p>Enviro DIY Sensor Stations for Education & Watershed Monitoring: A Case Study on Pickering Creek at Montgomery School, Chester Springs, Pennsylvania</p> <p>David Kline, David W. Bressler</p>	<p>The American Littoral Society Monitoring for Change: Continuous Water Quality Monitoring Stations in the Cohansey Watershed</p> <p>Sarah Johnson</p>
3:15	<p>Water Quality Benefits of a Shellfish-Based Living Shoreline Along the Mispillion River, Delaware</p> <p>Josh Moody, Danielle Kreeger, Irina Beal</p>	<p>Going Virtual With Immersive Science Outreach</p> <p>Lisa Tossey*</p>	<p>Multi-Municipal Storm Water Collaborations: Comparisons Between the Chesapeake Bay and Delaware River Watersheds</p> <p>Ellen Kohler</p>
3:30	<p>Possible Niche Partitioning Among Four Ecologically and Economically Important Filter-Feeding Bivalves: A Case Study Of Bivalve Polyculture</p> <p>Michael Acquafredda*, Daphne Munroe</p>	<p>Scaling and Selecting STEM: Designing and Executing Unique, Effective Projects</p> <p>Matthew Fritch</p>	<p>Rally For The Navesink: A Collaborative Microbial Source Track-down With a Find-It, Fix-it, No-Blame Strategy Towards Restoration</p> <p>Swarna Muthukrishan, Bill Heddendorf, Trish Ingelido</p>

* INDICATES THE NAME OF A STUDENT PRESENTATION OR POSTER



DETAILED AGENDA

TUESDAY, JAN. 28, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
3:45	<p>Exploring the Utility of Sidescan Sonar Imaging for Freshwater Mussel Distribution Mapping in the Tidal Delaware River</p> <p>Matthew Walderon, Samantha Burton, Randall Brown</p>	<p>Citizen Science Cartography</p> <p>Joe Haase</p>	<p>Preservation, Regulation and Restoration of Riparian Buffers: Promoting the Environmental Health of Watersheds in the Mid-Atlantic Region</p> <p>Robyn Leto*</p>
4:00	<p>Status of Freshwater Mussel Propagation at the Fairmount Water Works Interpretive Center, Philadelphia, Pennsylvania: Investing in Blue Infrastructure to Address Restoration Needs in the Urban Corridor</p> <p>Lance Butler, Richard Anthes, Danielle Kreeger, Angela Padeletti, Kurt Cheng, Roger Thomas, Kathryn Longwill</p>		<p>Q&A</p>
4:15	<p>Investing in Native Freshwater Mussel Stocks for Water Quality Enhancement in Mid-Atlantic Watersheds: The Mussels for Clean Water Initiative</p> <p>Danielle Kreeger, Rebecca Kennedy, Maitreyi Roy, Jennifer Adkins, Angela Padeletti, Kurt Cheng, Joshua Moody</p>	<p>Q&A</p>	
4:30	<p>Q&A</p>	<p>BREAK</p>	



DETAILED AGENDA

WEDNESDAY, JAN. 30

8:00 a.m. Registration/Breakfast
 8:30 a.m. Concurrent Sessions
 10:00 a.m. Break
 10:15 a.m. Concurrent Sessions
 12:00 p.m. Lunch
 1:30 p.m. Hot Topics - Grand Ballroom

CONCURRENT AFTERNOON SESSIONS BY ROOM

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	<p style="text-align: center;">Monitoring II</p> <p style="text-align: center;">Moderators: John Yagecic & Angela Padeletti</p>	<p style="text-align: center;">Big Storms & Rising Water: Voices Against The Wind</p> <p style="text-align: center;">Design Charrette, Digital Story Telling And Climate Change</p> <p style="text-align: center;">Moderators: Jon Cox & Kate Layton</p>	<p style="text-align: center;">Ms4x3</p> <p style="text-align: center;">Moderators: Kate Hutelmyer & Doug- las Janiec</p>
8:30	<p>Update to USGS Stream Stats for Delaware</p> <p>Beatrice O'Hara, John Callahan</p>	<p>In this session we will introduce the Delaware resilience awareness project (DEL- RAP), and then invite the audience to participate in a discussion and discovery through visual explora- tion around topics related to sea-level rise and intensifying storms.</p> <p>Additional presenters:</p> <ul style="list-style-type: none"> • Amanda Binning • Greg Shelnut • Anna Wik • Jules Bruck 	<p>Protecting the Environment by Reducing Storm Water Pollution</p> <p>Matthew Klewin</p>
8:45	<p>Wave Attenuation Monitoring of Living Shorelines in the Delaware Bay</p> <p>Katlin Walling, Douglas Gaffney</p>	<p>Additional presenters:</p> <ul style="list-style-type: none"> • Amanda Binning • Greg Shelnut • Anna Wik • Jules Bruck 	<p>Highlights of DelDOT's NPDES Program</p> <p>Emily Seldomridge</p>



DETAILED AGENDA

WEDNESDAY, JAN. 30, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
9:00	Coastal Resiliency Hydrology and Ecological Monitoring in Southern New Jersey Noel Turner, Laura Mitchell	Big Storms & Rising Water: Voices Against The Wind (Continued) Design Charrette, Digital Story Telling And Climate Change	Partnering with Local Municipalities Towards Water Quality
9:15	Hydroacoustic Survey of Submerged Aquatic Vegetation in the Delaware Estuary: Preliminary Results from a Multi-Year Survey Kristin Regan, Kelly Somers		Pennsylvania's MS4 Program: New Requirements, Challenges and Opportunities Renee Reber
9:30	Q&A		Q&A
9:45	BREAK		BREAK

FIND US ON SOCIAL MEDIA

#EstuaryScience

#EstuaryPeople

#EstuaryCollaboration #EstuaryEnvironment #MightyMussel

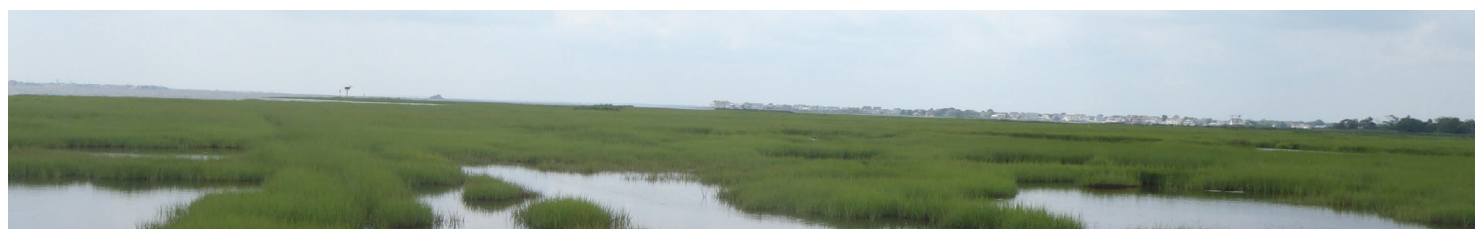


TAKE ADVANTAGE OF OUR SELFIE STATION!



VISIT OUR WEBSITE: WWW.DELAWAREESTUARY.ORG

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
	<p>Restoration II</p> <p>Moderators: Dave Bushek & Alison Rogerson</p>	<p>Citizen Science</p> <p>Moderators: Kaitlin Collins & Sarah Morales</p>	<p>Improving Your Programming</p> <p>Moderator: Renee Brecht-Mangiafico</p>
10:15	<p>Promoting and Protecting Early Successional Habitats on Electric Transmission Rights of Way</p> <p>Annina Hazel</p>	<p>NJDEP's Coastal Keepers Program</p> <p>Matt Warren, Rick Brown</p>	<p>Making it Click: Using Behavioral Research To Improve Outreach Planning</p> <p>Brittany Musolino</p>
10:30	<p>Collaboration in Studying Past Stream Restorations to Inform Future Action</p> <p>Hayley Oakland*, Stefanie Kroll</p>		<p>How NGOs Collaborating With Extension Can Make Multiple Strides Forward in Watershed Restoration Activities</p> <p>Chris Obrupta</p>
10:45	<p>Lardner's Point Park North End Living Shoreline in Complex Urban River Conditions</p> <p>Ed Morgereth, Brett Long, Chris Streb, Jim Fries</p>	<p>Building Natural Resources Stewardship</p> <p>Beth Offenbacher</p>	<p>Group Decision Making Methods</p> <p>Sarah Clark</p>
11:00	<p>South Wilmington Wetland Park: Wetland Restoration in a Constrained Environment</p> <p>Justin Reel</p>		<p>Using Evaluation to Help You Understand the Impact Of Your Work: A Workshop</p> <p>Rachel Becker-Klein</p>



DETAILED AGENDA

WEDNESDAY, JAN. 30, CONTINUED

	GRAND BALLROOM A	GRAND BALLROOM B	CRYSTAL ROOM
11:15	<p>Functional Habitat Patch Size vs. Total Habitat Amount: The Importance of Patch Shape at Habitat Thresholds</p> <p>Jeff Keller</p>	<p>Community Based Monitoring in New Jersey: A Mutualistic Relationship Between Volunteers and the State</p> <p>Erin Stretz</p>	Becker-Klein (Continued)
11:30	Q&A		
11:45	BREAK	<p>Community Based Monitoring in New Jersey's High Aquifers Through Student Engagement</p> <p>Zach Nickerson</p>	



HOT TOPICS
MODERATORS: SUE KILHAM & JUNI ALAM
GRAND BALLROOM

1:30	The Aquatic Research and Restoration Center (ARRC): A Collaborative Approach to Addressing Urban Ecosystems in the Delaware Basin	Lance Butler, Danielle Kreeger, Angela Padeletti, Richard Anthes, Roger Thomas, Kurt Cheng, Kathryn Longwill
1:45	A Decade of Restoration and Monitoring: Turing Little Buck Run from Red to Blue	Aaron Clauser, Ph. D, Robert Struble, Jr., Brian Winslow
2:00	Advances in Thin Layer Placement Methods for Wetland Restoration: Design and Construction Considerations	Mark Reemts, PE, Ram Mohan
2:15	Watersheds on the Brink: Applying Sub-HUC12 Watershed Modeling and Scalable Conservation Solutions Towards Stabilizing Natural Landscapes at the Tipping Point for Clean Water	Nathan Boon, Amber Carter, Gregory Barren
2:30	Collaboration, Plant Breeding and Agroecology: Transforming Farming to Protect Fragile Ecosystems and Fight Climate Change	Nate Kleinman
2:45	Planning for a Greener Future: Incentivizing Storm Water Management with Zoning Bonuses	Sara Anderson
3:00	Closing Comments/Awards	Jennifer Adkins, Danielle Kreeger

Dissolved Oxygen Concentration Requirements for Fish and Invertebrates in the Delaware Estuary - Richard J. Horwitz and Allison Stoklosa
 Academy of Natural Sciences of Drexel University

THANK YOU FOR ATTENDING THE SUMMIT!

Fill out our survey, or go online and visit www.surveymonkey.com/r/FL8GQH7



Photo courtesy of The Nature Conservancy

POSTER PRESENTATIONS
LISTED BY ASSOCIATED TOPIC
MONDAY & TUESDAY 5:00PM 5TH FLOOR

Environmental Justice

1. Vidyaratna, Nayani; Laura Smith, Jonathan Cohen, Kathryn Coyne, Katherine Miller, Mark Warner; How does climate change affect the physiological ecology of *karlodium veneficum* and its consequences on trophic transfer?

Living Resources

2. Cleary, Niki; Bushek, David (presenting), Josh Daw, Daphne Munroe; Atlantic Horseshoe Crab (*Limulus polyhemus*) Movement Within Oyster Farms on the Delaware Bay Shoreline

3. Jones, Casey*; David Bushek; Horseshoe Crabs, Red Knots, and Coastal Inundation

4. Longwill, Kathryn; Roger Thomas, Lance Butler, Danielle Kreeger, Kurt Cheng, Christopher Vito, Julia Duriske; Preliminary Results of Culturing Freshwater Mussels of the Mid-Atlantic Through In Vitro Techniques

5. McGowan, Andrew; Marianne Walch, Bob Collins, Victoria Spice; Increasing Oyster Populations in the Delaware Inland Bays

6. Smith, Lily*; The Shade Trees of Merchantville – A Citizen Science Inventory of Municipal Carbon Sequestration

7. Whiteside, Michael; Ximing Guo; Shell Color in the Eastern Oyster (*Crassostrea virginica*)

8. Woodruff, Patricia; David Bushek, Robert Loveland, Mark Botton; Horseshoe Crabs on Beaches Near Active Oyster Aquaculture Farms on the New Jersey Delaware Bayshore

Monitoring

9. Donohue, Steve; EPA Scientific Dive Unit

10. McKenna, Thomas; John Callahan, Kevin Brinson, Damaris Slawik; Determining Flow Paths for Flooding and Draining in Slaughter Beach, Delaware

11. Rogerson, Alison; Andrew Howard, Susan Guiteras, Douglas Janiec, Joshua Moody, Danielle Kreeger; Developing Monitoring Plans for Living Shoreline Projects in Delaware: A Goal-Based Framework

12. Soldner, Karly; Reducing Costs Of Green Storm Water Infrastructure Monitoring Data Collection to Inform Site Maintenance Decisions With Real-Time Soil Moisture Sensing Technologies and the Internet of Things

13. Vandeplass, Stormy; Annabella Larsen, Audrey DeRose-Wilson, Stephanie Warshawsky; Restored Barrier Beach Continues to Contribute to Delaware's Piping Plover Productivity

14. Yerck, Walter*; Meghan Rogalus; The Citizen Scientist-Supported Monitoring Program of the Poquessing Creek Restoration

15. Beal, Irina; Joshua Moody, Sarah Bouboulis, Danielle Kreeger; Living Shoreline Assessment for Community Resiliency in Coastal Pennsylvania

16. Bouboulis, Sarah; Joshua Moody, Danielle Kreeger; Delaware Estuary Shell Recycling Program: Lessons Learned Over First Two Years
18. Gentry, Matt; Joshua Moody, Sarah Bouboulis, Danielle Kreeger; Effects of Substrate Protection and Type on Ribbed Mussel Recruitment for Living Shoreline Applications
19. George, Robert; Evan Kwityn, Michael Rehman, Christiana Pollack; Monitoring to Assess Beneficial Reuse of Dredged Material in Salt Marsh Restoration at Fortescue Fish and Wildlife Management Area
20. Henry, Teric*; Stimating Sediment Deposition Rates and the Influence of Slope Along White Clay Creek Using Riparian Trees
21. Kroll, Stefanie; Marie Cruz, Scott Haag, Lin Perez, Meghan O'Donnell, Hayley Oakland, Richard Horwitz; Coordinated conservation through the DRWI-- How Much Improvement Do We Predict?
22. Malizzi, Lawrence; Murat Utku, Gary Emmanuel, James Davis; Natural Resource Damage Assessment Restoration: North Breton Island, Louisiana
23. McGowan, Andrew; A GIS Based Model for Prioritizing Reforestation Efforts
24. Pavona, Jamie*; Erika Furlong, Kenneth Dunne; Investigating Monarch Butterfly Habitat in Delaware Roadside Rights-of-Ways
25. Roberts, Spencer*; Joshua Moody, Kurt Cheng, Danielle Kreeger; Creating Flow Refugia to Augment and Restore Freshwater Mussel Populations in the Tidal Freshwater Delaware River

Water Quality

26. Fry, Katelynn*; Discharge Precipitation Relationship for White Clay Creek, Newark Delaware
27. Hall, Sydney*; Mike Mensiger, Stephanie Stotts; Microplastics in the St. Jones River: An Examination of the Relationship Between Concentration and Proximity to the City of Dover
28. Keyser, Todd; John Cargill IV, Morgan McGee-Solomon; WATAR in the Christina Basin: Achieving Goals Together
29. Parente, Allison*; Charles Shorten; Release and Uptake of Soluble PO₄-P from Sediments in the West Branch Brandywine Creek, Chester County, Pennsylvania
30. Rondinelli, Michael; Shaun Gannon, Pieter Domaszczynski, Ahintha Kandamby, Joe Imperi; Improving Water Quality for Trout in the West Branch Delaware River

Wetlands

31. Champlin, Lena*; D.J. Velinsky, C. Sommerfield, K. Raper, L. Haaf, K. St. Laurent, E. B. Watson; A Comparison of Annual and Decadal-Scale Carbon Sequestration Rates in New Jersey, Pennsylvania, and Delaware Tidal Wetlands Using Interpolation Mapping
32. Hartman, JeanMarie; The Role of Forests as Green Infrastructure
- 33 Rodriguez, Cassandra*; Changes in Tidal Marsh Vegetation Communities at Bombay Hook National Wildlife Refuge in Smyrna, Delaware
34. Rodriguez, Christian*; Invasive Species Control and Management at Bombay Hook National Wildlife Refuge in Smyrna, Delaware