

# THE 3<sup>RD</sup> ANNUAL WATERSHED CONFERENCE

November 1<sup>st</sup>, 2019





### **The Honorable Andrew Zwicker** **Assemblyman, 16th Legislative District**



Assemblyman Andrew Zwicker is a scientist and teacher, a husband and father, whose career is devoted to finding solutions to difficult problems through consensus and common-sense. Andrew was elected to the New Jersey Assembly in 2015, the first Democrat ever to win in the 16th District.

A lifelong New Jersey resident, Andrew is head of Communications and Public Outreach at Princeton University's Plasma Physics Laboratory, a world leader in developing an advanced form of energy. At the Lab, he has worked with hundreds of teachers and students, helping to inspire a new generation of scientists and researchers with the promise of technology that serves society's needs. Andrew has been a faculty advisor for Princeton University freshmen and sophomores and an academic-athletic fellow for the women's soccer team. He taught classes in bioethics and writing, and led plasma physics workshops for college faculty, undergraduate students and advanced high school students. The American Association of Physics Teachers named him as one of the 75 leading contributors to physics education in the US. Andrew was raised in Englewood, NJ where he graduated from Dwight Morrow High School. His love of learning and passion for science came from his mother, a public school English teacher, and father, a chemical engineer. Andrew earned a bachelor's degree in physics from Bard College and a master's and Ph.D. in physics from Johns Hopkins University. Andrew and his wife Barbara, an elementary school educator in Hillsborough, live in Kingston, where they raised three children.

## AGENDA

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**8:45-9:30 AM Registration**

**9:30-9:45 AM Welcome & Introduction**

**Jim Waltman**, Executive Director, The Watershed Institute

**10:00-11:00 AM SESSION ONE PRESENTATIONS**

*Johnson A&B* **Recent Changes to State & Federal Water Laws**

**Prof. Edward Lloyd**, Evan M. Frankel Clinical Professor,  
Environmental Law, Columbia Law School

**Michael Pisauro**, Policy Director, The Watershed Institute

*Lab* **Flipping the Script on American Environmental Thought**

**Kelsey Mattison**, Marketing Coordinator, Princeton Hydro

*McAlpin Library* **Collaboration Between Academic Institutions and Nonprofits: A Case Study on the Musconetcong River**

**Nancy Lawler**, Water Quality Program Coordinator, Musconetcong Watershed Association

**Meiyin Wu**, Director, Passaic River Institute; Montclair State University

**11:15 AM-12:15 PM SESSION TWO PRESENTATIONS**

*Johnson A&B* **Should I Buy Wellies, Hip or Chest Waders? Urban Flooding in New Jersey**

**John A. Miller, P.E., CFM, CSM**, Federal Emergency Management Agency, Mitigation Liaison

*Lab* **Microplastics in the Passaic – Methods and Community Connections**

**Sandra LaVigne**, Director of Water Quality, Great Swamp Watershed Association

*McAlpin Library* **Complete & Green Streets: Using Green Infrastructure to Create a Safer Environment**

**Janna Chernetz**, Deputy Director & Senior New Jersey Policy Analyst, Tri-State Transportation Campaign

**Kandyce Perry**, Planning and Policy Manager, New Jersey Future

**Leigh Ann Von Hagen**, AICP/PP, Senior Researcher, Alan M. Voorhees Transportation Center, Rutgers University

**12:15-1:00 PM LUNCH**

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## AGENDA

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**1:00-1:30 PM KEYNOTE SPEAKER – THE HONORABLE ANDREW ZWICKER (ASSEMBLYMAN 16<sup>TH</sup> LEGISLATIVE DISTRICT)**

**1:45-2:45 PM SESSION THREE PRESENTATIONS**

- Johnson A&B* **An Overview of the Causes and Impacts of Harmful Algal Blooms**  
**Fred Lubnow, Ph.D.**, Director of Aquatic Programs, Princeton Hydro
- McAlpin Library* **Development of a Civic Science Pathogen Monitoring Program on the Lower Raritan River**  
**Michele Bakacs**, Associate Professor/ County Agent, Rutgers Cooperative Extension of Middlesex County  
**Heather Fenyk**, President, Lower Raritan Watershed Partnership
- 3:00-4:00 PM SESSION FOUR PRESENTATIONS**
- Johnson A & B* **Sustainable Jersey's Water Gold Program**  
**Anne Heasley**, Program Manager of Policy and Planning, Sustainable Jersey (Moderator)  
**Jennifer Feltis Cortese, AICP**, Regional Environmental Planner, New Jersey Department of Environmental Protection  
**John Hasse, Ph.D.**, Department of Geography, Rowan University
- Lab* **Mudsnails in the Musconetcong: Engaging Stakeholders to Limit Environmental Risks**  
**Nancy Lawler**, Water Quality Coordinator, Musconetcong Watershed Association
- McAlpin Library* **Jersey-Friendly Yards: Landscaping for a Healthy Environment**  
**Becky Laboy**, Education Outreach Specialist, Ocean County Soil Conservation District  
**Karen Walzer**, Public Outreach Coordinator, Barnegat Bay Partnership

**4:00-4:30 PM NETWORKING**

### **SESSION ONE PRESENTATIONS**

#### **Recent Changes to State & Federal Water Laws**

After more than 45 years, the language in the Clean Water Act (CWA) is still ambiguous when it comes to water resources. For example, when do you need a permit to discharge pollutants and what streams the CWA protects. The Supreme Court will decide one of the issues. For the other, EPA is once again attempting to redefine what water is. On the State level, DEP and the Legislature have been hard at work addressing issues that impact water. Come learn how these issues may impact you and your work.

**Room:** Johnson A&B

**Michael Pisauro**, Policy Director, The Watershed Institute

#### **Flipping the Script on American Environmental Thought**

Have you ever stopped to think about how black-and-white thought processes affect the way we perceive our environment? Historically, American thought has viewed environmental issues through a binary lens: either we favor human society, or we favor the environment, and this juxtaposition has rarely allowed for integration between the two perspectives. In this session, we will explore binaries in environmental thought such as ecocentrism/anthropocentrism and preservation/conservation, as well as how this separation affects the way we interact with and perceive our world and our place within it, and how we can advance a more productive and shared understanding. We'll also explore some of the ways we can start to break down those binaries to enhance our relationship with the "natural world" by participating in a group discussion. This session should be attended by anyone looking to flip the script on environmental thought in New Jersey and the greater U.S.

**Room:** Lab

**Kelsey Mattison**, Marketing Coordinator, Princeton Hydro

#### **Collaboration Between Academic Institutions and Nonprofits: A Case Study on the Musconetcong River**

In 2018, the Musconetcong Watershed Association (MWA) and Montclair State University's Passaic River Institute (PRI) received a grant through the Delaware Watershed Research Fund, supported by the William Penn Foundation, to track the sources of fecal contamination in the lower Musconetcong River. The purpose of the research was to: replicate a 2008 water quality study, interview landowners, quantify changes in water quality after ten years of work by MWA partners to help farms and landowners implement best management practices, present the results to stakeholders, and recommend TMDL revisions to NJDEP. The presenters will discuss the strengths different organizations contribute to complete and publish the study, and how the two organizations worked together to influence policy. The organizations will also show how this work was integrated with other partner projects and goals, as well as lessons learned.

**Room:** McAlpin Library

**Nancy Lawler**, Water Quality Program Coordinator, Musconetcong Watershed Association

**Meiyin Wu**, Director, Passaic River Institute; Montclair State University

### **SESSION TWO PRESENTATIONS**

#### **Should I Buy Wellies, Hip or Chest Waders? Urban Flooding in New Jersey**

Urban flooding is a growing, national issue that has become more and more overwhelming to communities across the country. To further complicate the issue, studies show that poor, racial and ethnic minorities, elderly, renters, non-native English speakers and those with mobility challenges are disproportionately affected. What can be done to address and mitigate this issue? This presentation will define urban flooding in a national context while considering specific examples in New Jersey. Future impacts of heavy rain fall events as conditions continue to change will also be examined. The presentation will explore the present impacts and challenges of urban flooding and steps that can be taken to mitigate those impacts.

**Room:** Johnson A&B

**John Miller**, Federal Emergency Management Agency, Mitigation Liaison

#### **Microplastics in the Passaic - Methods and Community Connections**

Microplastics are a serious and growing concern in freshwater ecosystems. The Great Swamp Watershed Association began a pilot study in 2018 to evaluate the levels of microplastics in the Passaic River and its tributaries in the Great Swamp watershed. Developing protocols for sampling in small, headwater regions where stream width was narrow and depth shallow. Based on the preliminary data collected from the 2018 study, we reassessed our sampling protocols and expanded our sampling sites in 2019, for a more in-depth study of the types and quantity of the plastics in our region. Public awareness of the issue of plastics in our waters is beginning to grow. GSWA is using the data we collect to help communities understand the issue and make changes at the individual level and the municipality level. This talk will cover our sampling protocols, preliminary results and our work in making community connections.

**Room:** Lab

**Sandra LaVigne**, Director of Water Quality, Great Swamp Watershed Association

#### **Complete & Green Streets: Using Green Infrastructure to Create a Safer Environment**

Interest in Complete Streets (CS) has been growing steadily for years and many municipalities and counties have adopted policies. Though well-intended, these policies don't always lead to effective Complete Streets projects. This session introduces a NEW Model Complete and Green Streets Policy and Guide that highlights a broad range of benefits, incorporates Green Streets strategies, encourages equity, recognizes positive economic, environmental and public health outcomes, and lays out a path from policy to implementation. The session will review the Policy and Guide's innovations and highlight real-world best practices through Complete and Green Street success stories. The latest Complete and Green Street resources, including Sustainable Jersey's updated certification program, will also be discussed.

**Room:** McAlpin Library

**Janna Chernetz**, Deputy Director & Senior New Jersey Policy Analyst, Tri-State Transportation Campaign

**Kandyce Perry**, Planning and Policy Manager, New Jersey Future

**Leigh Ann Von Hagen**, AICP/PP, Senior Researcher, Alan M. Voorhees Transportation Center, Rutgers University



### **SESSION THREE PRESENTATIONS**

#### **An Overview of the Causes and Impacts of Harmful Algal Blooms**

A number of waterbodies throughout the Mid-Atlantic region of the United States experienced harmful algal blooms (HABs) over the summer and fall of 2019. Regionally, these HABs, composed of various genera of cyanobacteria occurred around the same time and were the result of regional weather patterns and elevated nutrient concentration, in particular phosphorus. In some cases, such as Harveys Lake, Luzerne County, PA, the HAB was relatively short-lived and ended in about a week. In other cases, such as Lake Hopatcong, Morris / Sussex Counties, NJ the HAB persisted through the summer and into the fall, negatively impacting the ecological, recreational and economic value of the lake and its associated watershed. This presentation will review the biological and ecological adaptations the cyanobacteria have that result in their generation of HABs in freshwater systems. Additionally, the factors that trigger such HABs will also be discussed as well as how they impact potable water supplies and recreational waterways.

**Room:** Johnson A&B

**Fred Lubnow**, Director of Aquatic Programs, Princeton Hydro

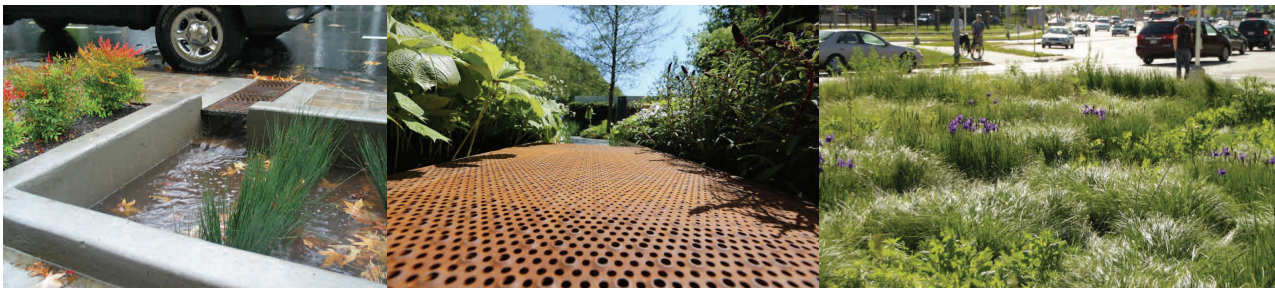
#### **Development of a Civic Science Pathogen Monitoring Program on the Lower Raritan River**

Currently, little water quality data exists that can inform the safety of recreating on the Lower Raritan River. The Lower Raritan is actively used for fishing, boating, and in some cases swimming at public access points, yet we have limited information about pathogen levels at these sites that affect human health. In the summer of 2019, Rutgers Cooperative Extension of Middlesex County partnered with the Lower Raritan Watershed Partnership and the Interstate Environmental Commission to create a civic-scientist supported water quality monitoring program for the Lower Raritan by collecting weekly water samples for pathogens and other in-situ parameters at 6 non-bathing beach sites from Piscataway to South Amboy. Real-time reporting of data was posted every Friday so users could make weekend decisions about primary contact recreation activities. We will discuss the program development and review the results of the monitoring effort.

**Room:** McAlpin Library

**Michele Bakacs**, Associate Professor/County Agent, Rutgers Cooperative Extension of Middlesex County

**Heather Fenyk**, President, Lower Raritan Watershed Partnership



### **SESSION FOUR PRESENTATIONS**

#### **Sustainable Jersey's Water Gold Program**

Join this panel discussion to learn about the newest Gold Star with a focus on the entry action - the development of a municipal water story. Improving water quality, supply and access to water requires actions on multiple fronts that may not follow municipal boundaries. In order to identify appropriate actions to address water issues, communities have to understand their own water stories. Presenters will discuss tools and information sources that are useful for communities starting down the path to water gold!

**Room:** Johnson A&B

**Anne Heasly**, Program Manager of Policy and Planning, Sustainable Jersey (Moderator)

**Jennifer Feltis Cortese**, AICP, Regional Environmental Planner, NJDEP

**John Hasse**, Ph.D., Department of Geography, Rowan University

#### **Mudsnails in the Musconetcong: Engaging Stakeholders to Limit Environmental Risks**

The first record of the highly invasive New Zealand Mudsail (NZM) in New Jersey was confirmed in 2018 in the Musconetcong Watershed-- the first occurrence in the Delaware Watershed. The Musconetcong Watershed Association became concerned the snail would proliferate in the Musconetcong River and nearby streams, outcompeting native aquatic organisms, including the endangered Brook Floater, and disrupt stream ecology and recreational fisheries. Through a grant from the Watershed Institute, MWA trained volunteers to identify sites where snails were present, developed communications materials for various stakeholder groups, and participated in the newly formed New Jersey Aquatic Invasive Decontamination Workgroup to limit the spread of this organism through human activities in the absence of a state management plan. Nancy Lawler, MWA's Water Quality Program Coordinator will share the data collected in 2019 and describe the various efforts to understand and communicate the threats to the Musconetcong and nearby waterways.

**Room:** Lab

**Nancy Lawler**, Water Quality Coordinator, Musconetcong Watershed Association

#### **Jersey-Friendly Yards: Landscaping for a Healthy Environment**

The Jersey-Friendly Yards website ([www.jerseyyards.org](http://www.jerseyyards.org)) is a primary tool for building a healthier watershed. The JFY website teaches how to minimize fertilizer and pesticide use, conserve water, and select appropriate plants to support pollinators and other wildlife. It highlights the benefits of using native plants, which thrive in our local climate and soil, and shows which invasive plants to avoid in the yard – while offering native alternatives to plant instead. It brings together multiple resources about the best landscaping practices to help residents make sound decisions for a healthy yard and healthy environment. By educating watershed residents about combating stormwater runoff and nonpoint source pollution, enhancing soil quality, conserving valuable water resources, and building wildlife habitat, one Jersey-Friendly yard at a time, we can reduce our negative impact on the watershed. We will demonstrate how to use the Jersey-Friendly Yards website to create your own Jersey-Friendly garden, and showcase some of the inspirational Jersey-Friendly garden projects implemented in the Barnegat Bay watershed.

**Room:** McAlpin Library

**Becky Laboy**, Education Outreach Specialist, Ocean County Soil Conservation District

**Karen Walzer**, Public Outreach Coordinator, Barnegat Bay Partnership



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### **Jim Waltman**

#### **Executive Director, The Watershed Institute**

Jim has served as Executive Director of The Watershed Institute since April 2005. He regularly speaks at community events and municipal meetings throughout central New Jersey, serving as a go-to resource for government officials and community leaders on how to best protect clean water and the environment throughout the region.

Prior to joining the Watershed, Jim was director of the refuges and wildlife program for The Wilderness Society in Washington D.C. For 10 years he represented the Society on issues relating to the National Wildlife Refuge System, Alaska public lands, endangered species, and other wildlife matters. He spent five years as a wildlife specialist at the National Audubon Society before joining The Wilderness Society. Jim is also a member of the State Agriculture Development Committee, which oversees New Jersey's farmland preservation program and serves on the board of ReThink Energy NJ, a non-profit that seeks a rapid transition from fossil fuels to clean, renewable energy. Jim has a biology degree from Princeton University and a Master of Environmental Studies from the Yale School of Forestry and Environmental Studies.

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### **Michael Pisauro**

#### **Policy Director, The Watershed Institute**

Prior to joining The Watershed Institute, Mike was a practicing attorney for 19 years and is licensed in NJ and PA. For years, he ran his own law firm concentrating on environmental work for citizen and environmental organizations before local land use boards, DEP, and in litigation.

His practice also included business and real estate law. He was the lobbyist for the New Jersey Environmental Lobby for nine years. Mike served on the Hopewell Valley Green Team and was an appointed board member for the New Jersey Licensed Site Remediation Board. He lives in Hopewell Township with his wife, Terry, and two boys, cat, two dogs and several fish. Mike received his B.S. in Economics from James Madison University and a J.D. from the University of Richmond.

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### **Dr. Fred Lubnow**

#### **Director of Aquatic Programs, Princeton Hydro**

Dr. Fred S. Lubnow is the Director of the Aquatic Programs at Princeton Hydro, and the office manager of the Exton, Pennsylvania office. Dr. Lubnow received his Bachelor's of Science in Biology from Susquehanna University (1988), his Master's degree in Environmental Sciences (1992) and his Ph.D. in Limnology (1994) both from the University of California Davis. Dr. Lubnow has been an environmental consultant for over 25 years and has worked on a variety of ecosystems throughout the Mid-Atlantic States. His areas of expertise include the identification of algae and zooplankton, the management of cyanobacteria and their cyanotoxins, the design and implementation of in-lake management strategies and the development of watershed-based management plans that focus on non-point source pollution. Dr. Lubnow was the Region III Director of the North American Lake Management Society and the Treasurer for the Pennsylvania Lake Management Society. Dr. Lubnow is also an adjunct professor at Delaware Valley University, where he teaches a course and laboratory on Watershed Management.

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### **Kelsey Mattison**

#### **Marketing Coordinator, Princeton Hydro**

Kelsey is a recent graduate of St. Lawrence University with a degree in English and environmental studies and a passion for environmental communication. Through her extracurricular work with various nonprofit organizations, she has developed expertise in social media management, content writing, storytelling, and interdisciplinary thinking. Kelsey believes that effective communication needs to be multi-faceted, which is reflected in the diversity of her experience. She served as Photography Editor of St. Lawrence University's newspaper, The Hill News, worked in digital media for the environmental outreach program of St. Lawrence University, Nature Up North, produced stories for Northern New York's public radio station, North Country Public Radio, and developed feature content for St. Lawrence County's Chamber of Commerce.

As a member of the Princeton Hydro team, she aims to further its mission by taking creative approaches to communicating about our shared home: Planet Earth. In her free time, Kelsey enjoys dancing of all sorts, going on long walks with her camera, and spending time with friends and family in nature.

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### **Nancy Lawler**

#### **Water Quality Program Coordinator, Musconetcong Watershed Association**

Nancy Lawler has managed water quality projects for MWA, including the River Watcher volunteer monitoring program for MWA since 2009. She has a B.A. in Biology from University of Pennsylvania and received additional graduate training in stream monitoring methods at the University of Michigan Biological Station. She has been working in the world of water quality monitoring and citizen science since 1999, and has been an advocate for the use of volunteer monitoring to build constituency in the watershed. She has presented on the regional, state and national level on a variety of water quality and citizen science related topics.

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### **Meiyin Wu**

#### **Director, Passaic River Institute; Montclair State University**

Meiyin Wu is the Director of the Passaic River Institute at Montclair State University and Professor in the Department of Biology. She is an ecologist whose research focuses on improving water quality, sustaining water resources, maintaining biodiversity, and restoring ecosystem functions and services.

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### **Sandra LaVigne**

#### **Director of Water Quality, Great Swamp Watershed Association**

Sandra joined the staff at Great Swamp Watershed Association in March of 2016. Prior to joining GSWA she worked as a water quality specialist and restoration ecologist managing water quality programs and restoration projects. Sandra is a native of northern New Jersey and attended Cook College, Rutgers University. Sandra oversees the water quality monitoring efforts at Great Swamp Watershed Association and organizes their citizen science volunteers who assist in collecting a wide scope of data throughout the watershed.

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### **Janna Chernetz**

#### **Deputy Director & Senior New Jersey Policy Analyst, Tri-State Transportation Campaign**

Janna Chernetz is the Director and Senior Policy Analyst for Tri-State Transportation Campaign. Janna focuses on issues related to sustainable funding of the New Jersey Transportation Trust Fund and the state budget, responsible transportation spending and investment decisions, pedestrian and bicycle safety, and enhancing economic development through the connection of land use and transportation. Janna was admitted to practice law in New Jersey in 2002 and is currently a registered Governmental Affairs Agent.

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### **Kandycy Perry**

#### **Planning and Policy Manager, New Jersey Future**

Kandycy Perry manages New Jersey Future's Mainstreaming Green Infrastructure program, which assists communities, developers, and design professionals in using green stormwater infrastructure. Kandycy coordinates the Green Infrastructure Committee of the Jersey Water Works collaborative, which is working to upgrade New Jersey's water infrastructure with cost-effective, sustainable solutions. Prior to joining New Jersey Future, Kandycy worked on brownfield redevelopment at the City of Camden Redevelopment Agency.

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### **Leigh Ann Von Hagen**

#### **AICP/PP, Senior Research Specialist, Alan M. Voorhees Transportation**

Leigh Ann Von Hagen AICP, PP is a Senior Researcher at the Voorhees Transportation Center and Planning Healthy Communities Initiative at Rutgers University. Leigh Ann's work focuses on developing sustainable transportation and land use solutions for communities. She addresses pedestrian and bicycle safety and access through research, training, education, community engagement, and dissemination of information about best practices in policy and design and conducts training on Health Impact Assessment and health in all policies.

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### **Michele Bakacs**

#### **Associate Professor/County Agent, Rutgers Cooperative Extension of Middlesex County**

Michele has an M.S., in Ecology and Evolution from Rutgers, The State University of New Jersey, and a B.S., in Geology from Queens College, The City University of New York. Michele joined Rutgers Cooperative Extension in 2009 as a County Environmental Agent for Middlesex and Union Counties. She has 17 years of experience in watershed management primarily focused on stormwater management, green infrastructure, and water quality protection. Michele has collaborated on numerous state and federal grants focused on researching the water quality of rainwater harvesting and bioretention systems, and helping municipalities disconnect impervious surfaces utilizing rain gardens and permeable pavements.



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### **John A. Miller**

#### **Mitigation Liaison, Federal Emergency Management Agency**

John A. Miller, P.E., CFM, CSM is a Water Resources Engineer recently completing a Master in Environmental Studies - Environmental Policy full-time at the University of Pennsylvania to increase his influence on water resources and climate change policy. His studies have included courses outside the MES program at the Wharton School of Business (Independent Study & Risk), School of Engineering (Energy) and Fels Institute of Government (Financial Management). As a graduate student, Mr. Miller interned with the White House Office of Management and Budget in the summer 2016 working on floodplain management and climate adaptation. He continued his Federal policy experience with a Fellowship in Senator Bob Menendez's Office assisting on the reauthorization of the National Flood Insurance Program.

Mr. Miller believes in contributing civically and serves as Vice Chair of the City of Lambertville Planning Board, Emergency Management Council, and City's FEMA Community Rating System Coordinator (Class 7). Mr. Miller served on the Passaic River Basin Flood Commission, created in 2010 by the Governor of New Jersey. He founded the New Jersey Association for Floodplain Management (NJAFM) in 2004, a chapter of the Association of State Floodplain Managers (ASFPM), and was Legislative Committee Chair from 2007 to 2018. His NJAFM activity played a strong role in the organization receiving the ASFPM 2013 Outstanding Chapter Award. Previously on the ASFPM Board, he is active with the leadership and staff of the Association on national floodplain management policy and issues. He is a Past President (2007) of the New Jersey Section American Water Resources Association (NJ-AWRA) and led the enhancement of this organization in his officer tenures.

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### **Becky Laboy**

#### **Education Outreach Specialist, Ocean County Soil Conservation District**

Becky Laboy holds a Master of Arts degree in Education, a Bachelor of Science degree in Environmental Biology, Teaching Credentials in both New Jersey and California, a Horticultural Certificate from Brooklyn Botanic Garden, and is a graduate of the Rutgers Organic Land Care Certificate Program. Becky has more than 20 years of experience in the field of environmental education. She is employed full-time as Education Outreach Specialist with the Ocean County Soil Conservation District, where she educates community members about the importance of healthy soil and best landscape management practices, and writes grants for projects that support a healthy community.

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### **Karen Walzer**

#### **Public Outreach Coordinator, Barnegat Bay Partnership**

Karen Walzer received a B.S. in Biology from Bucknell University and earned New Jersey Teacher Certificates in both Biology and General Science. She is also licensed as a NJ Registered Environmental Health Specialist. Karen began her career working for New Jersey Department of Environmental Protection as an Environmental Specialist. Her experience includes enforcement of coastal land use laws and assessment of biological impacts of projects. More recently, she monitored water quality for Monmouth County Health Department as an Environmental Health Specialist, and worked for the New Jersey Forest Resource Education Center as a Seasonal Naturalist. Currently, she serves as Public Outreach Coordinator for Barnegat Bay Partnership.

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### **Anne Heasley**

#### **Program Manager of Policy and Planning, Sustainable Jersey**

In her role, Anne works with partners to develop policies and programs to assist local governments in implementing sustainable actions. Anne has experience in land conservation, planning, design and funding and served as non-profit consultant. Anne worked on a range of planning and re-grant programs for Conservation Resources, Inc and was a conservation planner working primarily in the Delaware Bayshores and Pine Barrens for over 13 years for the New Jersey Chapter of The Nature Conservancy. Anne has a BS in Natural Resources from Cornell University and a Master of Landscape Architecture with a Certificate in Urban Design from the University of Washington. Anne is a licensed landscape architect and a member of the American Institute of Certified Planners.

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### **Jennifer Feltis Cortese**

#### **AICP, NJDEP**

Jennifer Feltis Cortese has been with the NJ Department of Environmental Protection for 12 years, serving as a regional environmental planner. Her work consists, primarily, of regional planning initiatives and water resources management coordination activities associated with Water Quality Management Planning and Combined Sewer Overflow planning. She also leads a Natural Resource Task Force and co-leads the Committee for Water Gold for Sustainable Jersey. Jennifer graduated from Rutgers University with a Masters in City and Regional Planning. Furthermore, she received a Masters of Business Administration and a BA in Government from Campbell University.

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### **John Hasse**

#### **Ph.D., Department of Geography, Rowan University**

John Hasse, Ph.D, AICP, is an associate professor of geography and Director of Environmental Studies at Rowan University where he teaches various courses in geography, GIS and planning. Holding a masters in urban planning and a masters and Ph.D. in geography from Rutgers University, Hasse's research interest focuses on land use geography and the interface of land use, environmental planning and spatial analysis. Professor Hasse has testified as an expert witness regarding issues of land use, urban sprawl and smart growth and his work is recognized throughout the state. Hasse has presented numerous professional papers at national and international conferences and has published multiple articles, book chapters and reports on land use and environmental issues including analyzing sprawl, quantifying smart growth and evaluating the relationships between transportation and land use.



**Your Water. Your Environment. Your Voice.**

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Thank you to Geraldine R. Dodge Foundation for its support of the Watershed Institute.



A special thanks to Princeton Hydro and Paver Guide, Inc. for sponsoring this conference.



\*\*\*Please take the time to participate in our evaluation survey. Your responses will help plan future events at the Watershed Institute. Thank you!\*\*\*

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