



# Passaic River Basin Flood Preparedness Workshop

**Hosted by the Passaic County Board of Chosen Freeholders  
Organized by the Department of Planning & Economic Development**

**Friday, May 18, 2012  
Passaic County Public Safety Academy  
300 Oldham Road • Wayne, NJ**

**[www.passaiccountynj.org/FloodWorkshop](http://www.passaiccountynj.org/FloodWorkshop)**



# Agenda

8:00 AM *Registration & Continental Breakfast*

8:30 AM **Welcome and Opening Remarks**  
Freeholder Theodore O. Best, Jr.

## **ADAPTATION: *Flooding Impacts & Solutions***

9:00 AM **Potential Climate Change Impacts on Flooding in the Passaic River Basin**

9:45 AM **Monitoring Flood Impacts on Operations and Infrastructure**

10:30 AM *Break*

10:45 AM **Proposed Solutions to Passaic River Basin Flooding**

11:30 AM **Regional Cooperation for Floodplain Restoration**

12:15 PM **Stewardship and Management of Restored Floodplain Lands**

1:00 PM *Luncheon*

1:30 PM *Keynote Address*  
**Rooftops to Rivers: Using Green Infrastructure for Stormwater Management**  
Larry Levine, Senior Attorney  
Natural Resources Defense Council

## **MITIGATION: *Minimizing Frequency & Severity of Flood Events***

2:30 PM **Flood Mitigation: Stormwater, Land Use and Incentives**

3:45 PM **Green Stormwater Management Infrastructure and Financing**

5:00 PM *Adjourn*

The Passaic River Basin Flood Preparedness Workshop is being filmed courtesy of Passaic County Technical Institute. Footage will be available following the workshop at:

[www.passaiccountynj.org/FloodWorkshop](http://www.passaiccountynj.org/FloodWorkshop)



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[www.passaiccountynj.org](http://www.passaiccountynj.org)

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## **Potential Climate Change Impacts on Flooding in the Passaic River Basin**

**David A. Robinson, Ph.D.**

New Jersey State Climatologist  
Professor, Rutgers University,  
Department of Geography

Dr. David A. Robinson is a professor in the Department of Geography at Rutgers University and also serves as New Jersey's State Climatologist. He earned a doctorate in Earth Sciences at Columbia University prior to arriving at Rutgers in 1989. Dave's research interests are in applied climate, especially related to New Jersey, and in climate dynamics and change, particularly focused on global snow cover. He is a member of the Intergovernmental Panel on Climate Change, and sits on lead climate advisory committees for the National Academy of Sciences and the National Oceanic and Atmospheric Administration. Dr. Robinson was recently elected a Fellow of the American Meteorological Society and has received a NOAA Environmental Hero award.

**George Guo, Ph.D., P.E., D.WRE**

Rutgers University,  
School of Engineering

Dr. Qizhong (George) Guo is a faculty member at the School of Engineering at Rutgers University, specializing in Water Resources and Environmental Engineering. He received doctoral, masters, and bachelor's degrees, all in civil engineering. He is



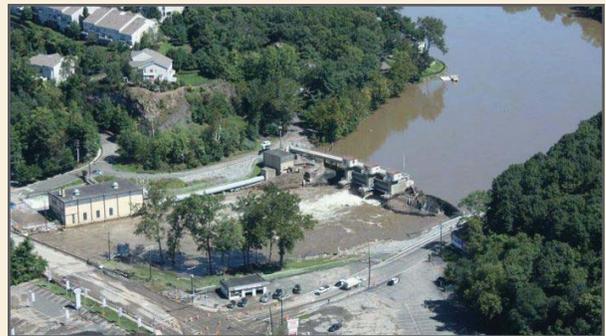
Route 23 north of Alexander Avenue, Wayne

*Photo courtesy of David Hollberg, Pequannock Township Manager, 8.29.2011.*



Route 23 north of Black Oak Ridge Road, Wayne

*Photo courtesy of David Hollberg, Pequannock Township Manager, 8.29.2011.*



Pompton Lake at Terhune Drive, Pompton Lakes

*Photo courtesy of David Hollberg, Pequannock Township Manager, 8.29.2011.*

a licensed civil engineer as well as a diplomate of the American Academy of Water Resources Engineers. He is currently Chair of American Society of Civil Engineers (ASCE-EWRI)'s Task Committee on Guidelines for Certification of Manufactured Stormwater BMPs and President of the Chinese American Water Resources Association. He has published over 100 technical papers and reports; delivered over 80 professional presentations (many invited); been awarded over 30 research grants and contracts; served as technical advisor to over 10 organizations; served on over 10 professional committees; provided over 20 expert interviews to national and local media; supervised over 60 post-doctoral, doctoral, and Masters students; taught 8 different graduate and undergraduate courses to over 2,000 students. For additional information, please visit: <http://www.rci.rutgers.edu/~qguo/>

## **Heidi L. Hoppe**

### **Hydrologist, U.S. Geological Survey**

Heidi Hoppe is a hydrologist with the United States Geological Survey-New Jersey Water Science Center. She serves as the Project Chief of the New Jersey Tide Telemetry System and Passaic River Basin Flood Inundation Project. In addition, Mrs. Hoppe is the liaison for US Geological Survey New Jersey Flood Warning Networks, which include the Somerset County Flood Information System, the Passaic River Flood Warning System, and other local systems. Heidi is the Site Information Management System and Records Management System database administrator. As such, she is responsible for the compilation of the site data sheets that make up

the Annual Water Resources Data Report for New Jersey. Heidi also is a member of the National Water Information System (NWIS) User Group, which is responsible for providing direction and developing requirements solely representing the external (non-USGS) use of water data provided by NWISWeb. Heidi represents the New Jersey Water Science Center at numerous outreach events and is an active member of the New Jersey Association for Floodplain Management.

Heidi is currently serving a second term as Vice Chair for NJAFM after previously serving as NJAFM Secretary. Prior to her current roles at the US Geological Survey, Heidi worked in the Hydrologic Data Assessment Program Water-Quality Unit. In that capacity, she sampled both surface and ground water as well as analyzed the water-quality data. Heidi began her career with the US Geological Survey as an intern while attending Rider University, where she earned a bachelor's degree in Marine Science and Environmental Geology.

## **Monitoring Flood Impacts on Operations and Infrastructure**

### **Jeffrey Perlman, AICP/PP, LEED-AP Principal Planner, NJTPA**

Jeffery Perlman is a principal planner at the North Jersey Transportation Planning Authority, managing the agency's climate change research activities, including greenhouse gas inventory and mitigation planning. He has worked as a planning consultant for a number of New Jersey municipalities, where he

conducted a variety of planning studies including master plans, redevelopment studies, and affordable housing plans. Jeffrey holds a Master's Degree in City and Regional Planning from Rutgers University, and a Master's Degree in Molecular Biology from the University of Medicine and Dentistry of New Jersey. Jeffrey is a licensed planner in the State of New Jersey and a LEED-accredited professional from the US Green Building Council.

### **Russell Furnari, CHMM**

Manager, Environmental Policy, PSEG

Russell Furnari is Manager of Environmental Policy at PSEG Services Corporation with primary responsibility for water issues facing the Public Service Enterprise Groups operating subsidiaries. Key water issues Russ confronts include construction stormwater regulations, water quality issues related to Total Maximum Daily Load (TMDL) implementations, Spill Planning and water resource conservation/beneficial reuse.

Russ is a member of the Clean Water Council of New Jersey, representing the New Jersey Chamber of Commerce. The CWC is an advisory group to the New Jersey Department of Environmental Protection whose members are appointed by the governor to assist NJDEP on monitoring current water issues and developing policy to address them. He chairs the NJ Corporate Wetlands Restoration Partnership (NJCWRP) and is part of the NJ Climate Adaptation Alliance. Russ has a BS in Industrial Administration (NJIT) and an MA in Environmental Management (Montclair State University).

*Passaic County thanks the PSEG Foundation for underwriting the costs of this conference. The County Department of Planning & Economic Development thanks Russell Furnari for his assistance in planning today's workshop.*



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New Jersey's future success depends on our ability to effectively manage the need for environmental protection with the need for a growing economy. At PSEG, we're committed to both.

The PSE&G Foundation's priority areas of giving include:

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## **Everton Scott**

### Regional Public Affairs Manager, PSEG

Everton Scott is employed at PSEG as a Regional Public Affairs Manager. In this role he functions as the link between PSE&G electric and gas operating divisions and other E&G departments, enterprise lines of business, and various external stakeholders and policy groups to foster a productive PSE&G business environment, resolve service issues and enhance the Company image within the service territory and the state. Prior to joining PSEG Everton Scott was employed as an Area Manager with Jersey Central Power and Light, a subsidiary of FirstEnergy Corporation.

Everton holds a Bachelor of Science Degree in Business Administration from Rutgers University's Newark College of Arts and Sciences and an MBA in Management from Fairleigh Dickinson University, where he was inducted into the Beta Gamma Sigma Honor Society. Everton is a graduate of the Leadership Morris and Leadership NJ Programs, and he serves on the Board of Directors of many organizations including: The Morris County Planning Board, The Greater Paterson Chamber of Commerce, The North New Jersey regional Chamber of Commerce, The North Essex Chamber of Commerce, The Morris County Human Relations Commission, Morris Tomorrow and the County College of Morris Foundation. He is also chair of the Passaic County Workforce Investment Board. Most recently Everton was appointed Commissioner of the Paterson Restoration Committee.

## **Sergeant Robert Gatchell**

### NJ Transit Special Operations Division

Robert Gatchell currently holds the rank of Sergeant with the New Jersey Transit Police Department and is the Emergency Management Coordinator for the Department. He has been a sworn officer in the Department since 2001. He has served in patrol at various commands throughout the state and was selected to be a founding member of the original Counter Terrorism Team for the Department. He currently serves within the Special Operations Division and is a member of the Emergency Service Unit. In his current position, Sergeant Gatchell is responsible for the oversight of the emergency management functions for all aspects of New Jersey Transit, which includes bus, light rail and rail operations. He is also responsible for the coordination of the agency's emergency management response throughout the State in conjunction with the State of New Jersey Departments of Transportation, Office of Emergency Management and Office of Homeland Security.

## **Proposed Solutions to Passaic River Basin Flooding**

### **Mark N. Mauriello**

#### Director of Environmental Affairs and Planning, Edgewood Properties

Mark Mauriello began his career with the New Jersey Department of Environmental Protection (NJDEP) in May 1980, soon after earning a Bachelors degree in

Geology from Middlebury College in Vermont. He accepted a position as a project specialist for the New Jersey Geological Survey, and during the 1980s and 1990s he rose through the ranks of the Division of Coastal Resources and Land Use Regulation Division, and was appointed as Division Director in 2002. In 2006, Mauriello was selected by Lisa Jackson to be DEP's Assistant Commissioner for Land Use Management. In November 2008, Mauriello was nominated by Governor Jon S. Corzine to serve as Commissioner of the DEP, replacing newly confirmed EPA Administrator Lisa Jackson. He served in that capacity from November 2008 until his retirement from DEP in January 2010. Throughout his 30-year career with the DEP, Mauriello gained extensive experience in land use regulation, natural hazard management and mitigation, shoreline management and protection, floodplain management, stormwater management, natural resource protection and ecological sustainability. He founded the New Jersey Association for Floodplain Management and has served on numerous committees and working groups with FEMA, USEPA and the Army Corps of Engineers. Upon retiring from DEP in January 2010, Mauriello formed Mark Mauriello Consulting, LLC, specializing in coastal zone management, floodplain management, land use regulation and regulatory compliance. In March, 2010, Mauriello accepted a position as Director of Environmental Affairs and Planning with Edgewood Properties of Piscataway. In this capacity, Mauriello is responsible for overseeing the company's environmental programs and serving as an advisor on regulatory issues and property acquisitions.

*Passaic County thanks the Passaic County Technical Institute, School of Culinary Arts for catering this workshop, and School of Communication Arts for videography.*



**PASSAIC COUNTY TECHNICAL INSTITUTE**

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Passaic County Technical Institute (PCTI) is a 24-time national award-winning, comprehensive high school serving 3,200 students in grades 9-12. Located on a 55+ acre campus in Wayne, NJ, the school receives students from all municipalities in Passaic County. Over 350 faculty members deliver the curriculum of 200 courses and career areas.

## **Richard R. Pardi, Ph.D.**

Professor Emeritus, William Paterson University Department of Environmental Science

Richard Pardi was chairman of the Department of Environmental Science at William Paterson University in Wayne, New Jersey, where he held the rank of Professor. He was at William Paterson from 1984 to 2011 and continues to teach as an adjunct instructor. For nine years prior to that, he was Director of the Radiocarbon Laboratory at Queens College, CUNY in Flushing, New York. Before that he worked in the commercial analytical field (also radiocarbon) at Geochron Laboratories in Cambridge, Massachusetts. Prior to that he worked in the Geochemistry Division (also radiocarbon dating) of Lamont-Doherty Earth Observatory in Palisades, New York. He was co-director of William Paterson's Challenge Grant from 1986 to 1991. Pardi graduated from Queens College in 1967 with a Bachelor's in Geology and in 1974 with a Master's in Earth and Environmental Science. His doctorate in Geology was granted by the University of Pennsylvania in Philadelphia in 1983. Although most of his career was spent in radiocarbon dating and other geochronological pursuits, Pardi's interest shifted away from isotope geochemistry and carbon dating after arriving at William Paterson. Since that time his research has focused on aquatic chemistry. That shift in interest coincided with a year's sabbatical leave as a visiting scientist at Brookhaven National Laboratory in Upton, Long Island. Almost all of his current work is concerned with urban stream

water quality. Pardi is a resident of Hawthorne, New Jersey where he lives with his wife and large, spoiled puppy, Shannon.

## **Joseph J. Seebode**

Deputy District Engineer, New York District, U.S. Army Corps of Engineers

Joseph J. Seebode is an environmental engineer with more than 30 years of experience in engineering program management, water resource engineering, environmental restoration and remediation, solid waste management, natural resource protection, watershed planning, emergency preparedness, and federal and state regulatory programs. He currently serves as the Deputy District Engineer for the New York Office of the US Army Corps of Engineers, where he manages a diverse team of engineers and scientists in administering programs, investing more than \$1 billion annually in military construction and regional infrastructure improvements. As Deputy District Engineer, Mr. Seebode oversees the New York District's major Civil Works and Military Construction programs in New York, New Jersey and Greenland. Earlier in his career, Mr. Seebode also managed the Corps of Engineers Regulatory Program in the New York District for 13 years and was the official Corps liaison to the City of New York in the wake of the September 11th World Trade Center tragedy. Recently, through an interagency agreement between the Corps and State of New Jersey, Mr. Seebode served as the Assistant Commissioner for Site Remediation and Waste Management at the New Jersey Department of Environmental Protection. Mr. Seebode has Bachelor and Master degrees from

Manhattan College in Riverdale, New York. He was the 2002 Civilian of the Year for the US Army Corps of Engineers. He has also received the prestigious Meritorious Civilian Service Award, the Department of Army Civilian Award for Humanitarian Service, a Presidential Certificate of Merit, the Department of Defense Environmental Engineer of the Year Award, and a Heroism Award given by the Governor of the State of New Jersey.

### **Regional Cooperation for Floodplain Restoration**

#### **Michael Foley, CFM**

Program Manager, Non-Disaster Grant Programs, U.S. FEMA

Michael Foley has worked with FEMA Region 2 for 16 years. He came to FEMA during the January 1996 flood event in NY State as a local hire immediately after college where he received his BS in Civil Engineering. During this first disaster event he work with both the Mitigation and Public Assistance Divisions and soon became a Disaster Assistance Employee (DAE). From 1996 – 2000 Mr. Foley worked numerous disasters as a DAE reservist, and then as a temporary employee (CORE) in New York, New Jersey and Puerto Rico, working primarily on supporting the Hazard Mitigation Grant program (HMGP), providing technical assistance to states/communities and reviewing HMGP grant applications. During the World Trade Center (WTC) Disaster, Mr. Foley came to work at FEMA Region 2 as a permanent employee within the Mitigation Division. During this disaster, Mr. Foley was put in charge as Program Manager of

*Passaic County thanks the many faculty and staff members at Rutgers, the State University of New Jersey for participating in the Passaic River Basin Flood Preparedness workshop.*



*The Passaic County Department of Planning & Economic Development thanks Marjorie Kaplan, Climate and Environmental Change Initiative; Jeanne Herb, Bloustein School of Planning and Public Policy; and Amy Rowe, Rutgers Cooperative Extension of Essex & Passaic Counties with their assistance in planning and facilitating speakers at today's workshop.*

the HMGP, which funded approximately \$310 million in mitigation projects. Since the WTC event Mr. Foley has worked many disasters in NY, NJ, Puerto Rico and the Virgin Islands in many capacities, including HPA Branch Chief and Mitigation Director. Mr. Foley has been recognized for his extensive knowledge of FEMA Mitigation Grant Program and has been asked to support the National Technical Review and National Evaluation Review for the PDMC program since 2003. Mr. Foley is considered a National Expert in FEMA's Benefit Cost Analysis (BCA) and was asked to participate in the re-engineering of FEMA's BCA policies and modules. In 2009 Mr. Foley was promoted to a Sr. Natural Hazards Program Specialist in the Hazard Mitigation Assistance Branch of the Mitigation Division. Currently Mr. Foley is FEMA Region 2's Program Manager for FEMA's non-disaster grant programs, which includes the Flood Mitigation Assistance (FMA), Repetitive Flood Claim (RFC), Severe Repetitive Loss (SRL), and Pre-Disaster Mitigation Competitive Grant Programs.

## **Sergeant Michael Gallagher**

### **New Jersey State Police**

Sgt. Michael Gallagher has been a member of the New Jersey State Police for over 13 years. He enlisted with the NJSP in November 1998, after serving two years with the New York City Police Department, and graduating from college where he received his BS in Environmental Science and Masters in Public Administration. Currently Sgt. Gallagher is assigned to the Mitigation Unit within the Recovery Bureau of the New Jersey Office of Emergency Management. Sgt. Gallagher has been assigned to the Mitigation

Unit for the past two years and is involved with both the FEMA non-disaster (Flood Mitigation Assistance, Severe Repetitive Loss, Pre-Disaster Mitigation, Repetitive Flood Claims) and disaster (Hazard Mitigation Grant Program) grant programs. Sgt. Gallagher's previous assignments include Instructor at the New Jersey State Police Academy, and General Duty Road Trooper on the New Jersey Turnpike and various Stations located throughout central New Jersey (Troop C).

## **Jennifer McCulloch**

### **Program Coordinator, Morris County Preservation Trust**

Jennifer McCulloch is the Program Coordinator for Morris County's new Flood Mitigation Program. She has worked in the field of land preservation for the past 10 years in both open space and farmland, in the areas of acquisition and stewardship. Jennifer has been with Morris County's Preservation Trust Division for the past 4 years, formerly as the Assistant Director of the County Agriculture Development Board. In the wake of Hurricane Irene, Morris County Freeholders formed an exploratory committee to assess the creation of a dedicated flood acquisition program; Jennifer assisted with this feasibility study. When the Flood Mitigation Program was adopted by the Freeholders in March 2012, Jennifer was named Program Coordinator. To date, Morris is the first county in NJ to create a funding source and preservation program dedicated to mitigating flood-prone properties. Jennifer has her B.S. from Purdue University and previously worked in investment banking and retained executive search.

## **Stewardship and Management of Restored Floodplain Lands**

### **Joanne Bergin, GPC**

Administrator, Township of Little Falls

Joanne Bergin currently serves as the Township Administrator for the Township of Little Falls. Although new to this position, she has been working with the Township for a number of years as FEMA Program Administrator and Grant Procurement Specialist. Her varied background includes serving as Director of New Jersey Grant Procurement Services for CMX Engineering and President of Bergin Consulting, LLC. While working as grant writer of record for the Township of Little Falls, she coordinated the strategy to address flood mitigation by developing a comprehensive approach that focused on acquisition of private property, elevation of structures, and the need for infrastructure such as new pump stations. As FEMA Program Administrator for the Township, she processed and continues to manage Severe Repetitive Loss, Repetitive Flood Claim and Hazard Mitigation Grant Program projects that will mitigate 77 private properties. She works in coordination with a myriad of partners including FEMA, the New Jersey Office of Emergency Management, NJDEP Blue Acres Program and the Passaic County Planning Department. She also coordinated the Township's effort to create an Open Space Trust Fund, which was approved by voters in November 2011. She is a Certified National Grants Professional (one of 16 in New Jersey) who holds an M.S. in Public Health Administration. She currently

*Passaic County thanks the Passaic County Community College Public Safety Academy for hosting this workshop and providing state-of-the-art technology services.*

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serves as Chairman of the Board, Arc Ocean County and as an Executive Board Member for the Arc New Jersey.

## **Christopher Testa**

### **Hazard Mitigation Planner, U.S. FEMA**

Christopher Testa has been working for FEMA's disaster response to Hurricane Irene (DR4021) since September 2011. Currently a Hazard Mitigation Planner with FEMA, Chris has been serving as a Planning Liaison to the New Jersey Office of Emergency Management at the Regional Operations and Intelligence Center in West Trenton. Mr. Testa has 17 years of experience in the environmental field, as a regulator, project manager, policy specialist, and stewardship advisor. Prior to FEMA, Mr. Testa was the Special Projects Coordinator for the Hunterdon County Soil Conservation District. He holds a B.S. in Environmental Studies from Richard Stockton State College and an M.S. in Environmental Policy Studies from NJIT. Chris serves on the Hunterdon Land Trust's Acquisition and Stewardship Committee, and as the NJ Vice Chair for the Lower Delaware River Wild and Scenic Management Committee. He lives in Hunterdon County with his wife, Kimberly, and their two daughters.

## **Barbara Heskins Davis, AICP/PP**

### **Vice-President of Programs, The Land Conservancy of New Jersey**

Barbara joined the Conservancy's staff in January 1999 and leads the Partners for Greener Communities program. She led the Conservancy's Accreditation Team in 2009 when The Land

Conservancy received Land Trust Accreditation. Her responsibilities include the supervision and completion of Open Space and Recreation Plans, Farmland Preservation Plans and Trails Plans for local communities. In addition, she manages the open space advising services The Conservancy provides to 30 communities in six northern New Jersey counties. The Partners for Greener Communities program has helped towns preserve over 13,900 acres of land and receive \$219 million in federal, state, and county grants for land preservation. Barbara has served as part of a leadership team that organizes the Morris County Green Table, a forum where municipalities and land trusts meet to discuss common goals and projects, and has served on the Board of Trustees for Morris Tomorrow, a broad-based community organization focusing on regional issues and building consensus to improve the quality of life in Morris County. Barbara has spoken at the National Land Conservation Conference, New Jersey Land Conservation Rallies, the New Jersey League of Municipalities Annual Convention, and local workshops focusing on open space acquisition and planning. She served on the Randolph Township Open Space Committee since its inception in 1992 through 2006 and was Chairperson of that Committee. Barbara received her Bachelor's of Science in Biology and English from Franklin and Marshall College in Lancaster, Pennsylvania. She earned her Master's of Environmental Management, specializing in Water and Air Resources from the Duke University School of Forestry and Environmental Studies in Durham, North Carolina. She is also a licensed planner.

# Larry Levine

*Senior Attorney*

Natural Resources  
Defense Council



Larry Levine is a senior attorney in NRDC's Water Program, working on a variety of issues pertaining to water quality in the Northeast, and at the national policy level. Larry focuses on promoting the use of "green infrastructure" as a sustainable solution to polluted urban runoff and raw sewage overflows. He was previously a litigation fellow at NRDC and a clinical fellow in environmental law at the Georgetown University Law Center. Larry is a graduate of Yale Law School and Tulane University.

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212.727.4609

# *Rooftops to Rivers: Using Green Infrastructure For Stormwater Management*

**Financing Stormwater Retrofits in Philadelphia and Beyond**

FEBRUARY 2012

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**Rooftops to Rivers II:**  
 Green strategies for controlling stormwater and combined sewer overflows




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## **Flood Mitigation: Stormwater, Land Use, and Incentives**

### **Barry Chalofsky, PP**

Principal, Barry Chalofsky & Associates

Barry Chalofsky is the Principal of Barry Chalofsky & Associates, an environmental and land use planning consulting firm. He is also a Partner at Professional Education Associates LLC, a multi-media and advocacy firm. Barry has been an Adjunct Professor at Rutgers University for over 20 years, where he teaches courses in environmental and land use planning. He worked for the New Jersey Department of Environmental Protection for 35 years where he was in charge of the Statewide Stormwater Permitting, Stormwater Education (CleanwaterNJ), Ground Water Management and Onsite Wastewater Management Programs. He was the NJ State Stormwater Coordinator and represented the Commissioner on a number of State committees. He also previously headed up the Water Quality Management Program and was the lead technical advisor to the NJ Freshwater Wetlands Act. Barry is a NJ Licensed Professional Planner since 1978 and a NJ Certified Public Manager, New Jersey. He has a Bachelor's degree in Environmental Science from Syracuse University and a Master's degree in City and Regional Planning from Rutgers University. He is the author of two books: *The Home and Land Buyer's Guide to the Environment* and *The Real Estate Guide to the Environment*, as well as over 40 articles published in major national magazines including Smart Homeowner, Mother Earth News Old House



**Grass-crete and Crushed Stone Bikeway, Little Falls**

*Photo courtesy of Passaic County Planning Department, 2012.*



**Rain Barrel at private residence, Paterson**

*Photo courtesy of Passaic County Planning Department, 2011.*



**Rain Garden at Fire Company # 2, Haledon**

*Photo courtesy of Dr. Amy Rowe, Rutgers Cooperative Extension of Essex & Passaic Counties, 2011.*

Journal, Natural Home, Sierra, Better Homes and Gardens (Remodeling Ideas, Kitchens and Baths, Building Ideas, and Home Plan Ideas), Good Cents, Women's Day (Home Remodeling, Kitchens and Baths), Trenton Times, and the Bergen Record.

## **Judith Auer Shaw, AICP/PP**

Senior Research Associate, National Center for Neighborhood and Brownfields Redevelopment, E. J. Bloustein School of Planning and Public Policy, Rutgers University

Dr. Judy Shaw is a Senior Research Associate with the National Center for Neighborhood and Brownfields Redevelopment at the E. J. Bloustein School of Planning and Public Policy, Rutgers University. She has conducted research for the New Jersey Department of Community Affairs, New Jersey Department of Environmental Protection, New Jersey Department of Health and Senior Services, USEPA, DHS, and FEMA. She is the Project Director for the Sustainable Raritan River Initiative. The Initiative serves as a central hub for the many parties interested in the future of the Raritan River region, and a conduit for information, funding and collaboration within the region. The effort brings key leaders together to establish and implement the policy tools required to create a vibrant regional economy centered on a strong natural resource ethic. Prior to joining Rutgers, she served a distinguished career in public service including the Governor's Urban Coordinating Council, Deputy Director of the Office of Neighborhood Empowerment, Urban Coordinator for New Jersey Department

of Environmental Protection, and is the founding Administrator of NJDEP Office of Brownfield Reuse. A graduate of Indiana University, Dr. Shaw also holds a Master's from the University of Michigan. Her doctorate is from Rutgers University in Urban and Environmental Planning. She has served on her local planning board and currently serves as a member of the Burlington County Agricultural Development Board. The Raritan Initiative earned the 2012 Somerset County Regional Planning Award and Dr. Shaw received the 2011 Elwood Jarmer Award for Environmental Leadership from the New Jersey Chapter of the American Planning Association.

## **Peggy Snyder, P.E.**

Principal, Emerald Environmental Solutions

Peggy Snyder, P.E. is the founder and principal of Emerald Environmental Solutions. She began her involvement in land use and development issues in 1998 as a founding member of the Coalition to Save Hopewell Valley. From there, she went on to serve as vice-chair of the Hopewell Township Planning Board and chair of the Township's Wastewater Advisory Committee. Since 2000, Peggy has worked in the field of municipal engineering, stormwater management and wastewater treatment. With the adoption of the 2004 New Jersey stormwater regulations, she began to focus almost exclusively on performing stormwater reviews of major developments throughout the state. She has performed technical reviews of several hundred stormwater management systems to determine compliance with the NJ stormwater regulations.

Peggy is a member of the NJDEP's Stormwater BMP Technical Committee and has spoken throughout the state and on the Internet about stormwater issues.

### **Green Stormwater Management: Infrastructure and Financing**

#### **Andrew Bellina, P.E.**

Senior Policy Advisor, U.S. EPA

Andrew Bellina is a Senior Policy Advisor for the United States Environmental Protection Agency – Region 2. He began his career at USEPA in 1981, following service as an Environmental Engineer and Professional Scuba Diver in the Marine Environmental Services. During his over thirty years with the Agency, Andrew has gained experience in brownfields remediation as the RCRA Branch Chief for Region 2, and as an Environmental Scientist in solid and hazardous waste, and Superfund programs. Andrew founded and currently leads the EPA's Green Team. He is also a recipient of the EPA's Gold Medal for Exceptional Service. Andrew is a Professional Engineer (1987) with a Master's degree in Environmental Engineering from Rutgers University and a Bachelor's degree in Marine Biology and Environmental Science from Oregon State University and Fairleigh Dickinson University.

#### **Jennifer Ward Souder, ASLA, LEED AP BD+C**

Project Manager, Rutgers Center for Green Building

Jennifer has worked for 15 years in the fields of landscape architecture, natural resource management and green building design, construction and operations. While Director of Capital Projects/Assistant Director at the Queens Botanical Garden, Ms. Souder was responsible for guiding the QBG Visitor Center and sustainable landscapes project, which earned LEED® Platinum certification, from planning through construction. Through the Rutgers Center for Green Building, she is currently working with the Energy Efficient Buildings Hub, a U.S. DOE Energy Innovation Hub, and is the consulting project manager for the development of the NJ Green Building Manual. In addition, she provides research, writing and project management services and consults on a range of private and public sector green building and sustainable sites projects. Ms. Souder earned both a Master of Landscape Architecture and a Bachelor of Science from the School of Natural Resources and Environment, University of Michigan, and is a LEED Accredited Professional. She has served on the Pace University Green Roof Advisory Panel, the jury for the NYC Green Building Design Competition, and has served on the planning committee for the NJ ASLA Annual Conference since 2010.

#### **Amy Rowe, Ph.D.**

Environmental and Natural Resource Management Agent for Essex and Passaic Counties, Rutgers Cooperative Extension

Amy Rowe is the Rutgers Cooperative Extension Environmental and Resource Management Agent

for Essex and Passaic Counties. Her outreach programming has focused on green infrastructure in urban environments and green job training programs. Prior to coming to Rutgers, Amy worked at the Environmental Protection Agency's Urban Watershed Management Branch in Edison, NJ. At the EPA, her research focused on stormwater best management practices and on the monitoring of a permeable pavement demonstration site. Amy received her Ph.D. from Rutgers in Environmental Sciences.

### **John G. Hansbury, Jr.**

#### **Chief Budget Officer, New Jersey Environmental Infrastructure Trust**

John Hansbury's distinguished career in public finance has spanned over 23 years. He is a proven leader with strong computer and financial management skills. Mr. Hansbury has served as a speaker, analyst and fiscal officer on a county and state-wide level. Mr. Hansbury is currently the Chief Budget Officer for the New Jersey Environmental Infrastructure Trust, an independent State financing authority. The Trust leverages federal and state dollars to finance environmental infrastructure projects. It issues revenue bonds in order to make loans to local governments and private water companies for the construction and rehabilitation of eligible projects. The Environmental Infrastructure Financing Program has issued more than \$5.64 billion in loans since 1987. Mr. Hansbury was instrumental in spearheading the Trust's Direct Loan Program for small private borrowers, crafting a detailed manual on determining credit-worthiness of small private-

owned water systems in New Jersey. Mr. Hansbury was a recipient of the Governor's Partnership/Teamwork Award as an active member of the New Jersey Brownfields Redevelopment Interagency Team in 2005. Mr. Hansbury has been invited to speak at numerous public finance events including the Government Finance Officer's Arbitrage Rebate Conference in Milwaukee, WI in 2003, and at Rutgers University. Mr. Hansbury earned a Bachelor's of Science in Business Administration from Western New England University, Springfield, Massachusetts; and a Master's of Business Administration in Finance from LaSalle University, Philadelphia, Pennsylvania.

### ***Thank you!***

The Passaic County Board of Chosen Freeholders, Administration, and Department of Planning & Economic Development thank you for your participation in the Passaic River Basin Flood Preparedness Workshop. We hope today served to strengthen existing relationships and build new partnerships among our local communities. Passaic County looks forward to working with your community toward regional collaboration in adapting to and mitigating future flood events.

***Please keep an eye on your email inbox for an online survey requesting your feedback on today's workshop.***

We will seek your input about methods and next steps steps toward regional collaboration in the Passaic River Basin.

# ***Save the Date!***

# **Green Streets 101**

**Monday, June 11, 2012**

**7:00 PM - 9:00 PM**

**Passaic County Public Safety Academy**

**300 Oldham Road, Wayne, NJ**

Passaic County was awarded a technical assistance grant from the USEPA to help us make our street network greener and more sustainable. Experts from the US EPA and HDR Engineering will present a workshop on Green Street strategies and examine specific challenges and opportunities in Passaic County.

Please come and learn, ask questions, and think about how you can support the efforts to create Green Streets in Passaic County.

**What is a Green Street?** Green Streets look like this:



*Credit: Green Infrastructure Digest*



*Credit: msdlandscape*



*Credit: Green City Blue Lake*

Stick around until **3:45 PM** for ***Green Stormwater Management Infrastructure and Financing*** to learn all about how green streets, infrastructure, and buildings can improve stormwater management and minimize flooding in your community.