



MONTCLAIR STATE UNIVERSITY

FOURTH PASSAIC RIVER SYMPOSIUM

Organized by the Passaic River Institute of Montclair State University

Tuesday, June 22, 2010, Montclair State University Conference Center, 1 Normal Ave.,
Montclair, NJ

Symposium web site: www.csam.montclair.edu/pri/conferences

The agenda for the biennial Passaic River Symposium is complete— see below! A wide spectrum of topics and viewpoints will be presented. We are pleased to announce that the Honorable Bill Pascrell, Jr. US Congressman, NJ 8th District, Ms. Judith Enck, Region 2 Administrator, US Environmental Protection Agency, Colonel John R. Boulé II, Commander, US Army Corps of Engineers, NY District and Mr. Bob Martin, Commissioner, NJ Department of Environmental Protection are all confirmed to speak.

The "Lower Passaic River Restoration Project" will be prominently featured in the Symposium, including the "Phase 1" sediment removal by the Diamond Alkali site and the "Focused Feasibility Study" addressing the lower 8 miles. Additional projects and issues throughout the Passaic Basin will also be examined. The three previous symposia (see archived materials at the web site) attracted nearly 300 participants each – this fourth symposium promises to be equally attended.

CONFERENCE LOCATION. The Symposium will be held at the Conference Center at Montclair State University on the 7th floor of the University Hall. It's a first-class conference center with a spectacular panoramic view of the Manhattan skyline. See www.montclair.edu/conferencecenter for directions.

FOR MORE INFORMATION. Contact Dr. Kirk R. Barrett, PE, PWS, Director of the Passaic River Institute and chair of the Symposium, kirk.barrett@montclair.edu, 973-655-7117.

AGENDA, FOURTH PASSAIC RIVER SYMPOSIUM			
June 22, 2010, University Hall Conference Center, Montclair State University, Montclair, NJ			
Organized by the Passaic River Institute of Montclair State University			
8:00 AM	Registration and Continental Breakfast		
8:30 AM	Opening Remarks		
	· Dr. Kirk Barrett, Director, Passaic River Institute, Montclair State University		
	· Dr. Susan A. Cole, President, Montclair State University		
	· The Honorable Bill Pascrell, Jr., US Congressman, NJ 8th District		
	· Colonel John R. Boulé II, Commander, US Army Corps of Engineers, NY District		
	· Mr. Bob Martin, Commissioner, NJ Department of Environmental Protection		
	· Ms. Judith Enck, Region 2 Administrator, US Environmental Protection Agency		
SESSION 1	Perspectives from Partner Agencies and the Lower Passaic Cooperating Parties		
10:00 AM	Overview of Partner Agency Efforts to Clean Up the Lower Passaic River, with a Focus on Alternatives for the Lower 8 Miles. Alice Yeh, U.S. Environmental Protection Agency		
10:15 AM	Restoration planning for the Lower Passaic River. Lisa Baron, U.S. Army Corps of Engineers		
10:30 AM	Federal Trustees' Natural Resource Damage Assessment and Restoration Activities Update. Timothy Kubiak, U.S. Fish & Wildlife Service		
10:45 AM	Lower Passaic River Study Area RI/FS Update. William Hyatt, K&L Gates, LLP		
11:00 AM	BREAK -- COFFEE, EXHIBITS AND POSTERS ON THE 7TH FLOOR		
	Track A University Hall Seventh Floor Conference Center	Track B University Hall First Floor, Room 1070	Track C University Hall First Floor, Room 1050
SESSION 2	Lower Passaic "Phase 1 Removal Action" and Community Perspectives Moderator: Debbie Mans, NY NJ Baykeeper	Lower Passaic Sediment Geochemistry Moderator: Joseph Seebode, US Army Corps of Engineers	Water quality Moderator: Marzooq Alebus, NJDEP, Division of Watershed Management (invited)
11:30 AM	The Passaic River Community Advisory Group and Its Role in the Passaic River Removal Action. Tom Pietrykoski, Lower Passaic Watershed Alliance and Carol Johnston, Ironbound Community Corporation	An Update to EPA's Conceptual Site Model for the Lower Passaic River: An Examination of the Most Recent Results. Edward Garvey, Louis Berger	Water use regimes, land use regimes, and spatial data analysis for better watershed management. Benjamin Witherell, Montclair State University

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11:45 AM	Update on the Removal Action Through Potentially Responsible Party Initiative. Bob Romagnoli, Arcadis	Historical Trends of Energy Use, Energy Sources and Hydrocarbon Pollution along the Passaic River and Newark Bay, 1660-present. Stephen G. Marshall	Using ²¹⁰ Pb and ¹³⁷ Cs to identify the bank vs. soil contributions to excess fine-grained sediments in urban and rural New Jersey river channels. Joshua Galster, Montclair State, Passaic River Institute
12:00 PM	The Economic and Social Values of a Cleaner Lower Passaic River. Ella Filippone, Passaic River Coalition	Sources of Contaminants of Concern to the Newark Bay Estuary. Dennis Farley, The Intelligence Group	Tackling NJ's 1st TMDL: a 10-year case study in the Whippany watershed. Pat Rector, Rutgers University and Art Vespignani, Whippany River Watershed Action Committee
12:15 PM	The Riverfront Newark Wants: Progress Report 2008-2010. Damon Rich, City of Newark	Characterization of Contaminant and Biomass-Derived Organic Matter in Sediments from the Lower Passaic River, New Jersey, USA. Michael Kruge, Passaic River Institute, Montclair State University	Nutrient Cycling and the Assimilative Capacity of an Exurban Stream – Belcher Creek, Passaic County, NJ. Richard Pardi, William Paterson Univ.
12:30 PM	LUNCH, POSTERS AND EXHIBITS ON 7TH FLOOR Including Book Signings by Local Authors Dr. Judith Weis of Rutgers-Newark, author of "Salt Marshes: A Natural and Unnatural History" (with a focus on the Hackensack Meadowlands), and Mr. Kevin Olsen of Montclair State, author of "A Great Conveniency: a Maritime History of the Passaic River, Hackensack River, and Newark Bay"		
1:15 PM	Selected Readings from the forthcoming book "This American River: From Paradise to Superfund, Afloat on New Jersey's Passaic" by Author Mary Bruno, in the Conference Room adjacent to the Conference Center		
1:35 PM	Presentation – Robert J. DeVita Passaic Basin Environmental Champion Award. Presented to Mr. Kurt Landsberger, Verona, NJ. Presented by Essex County Executive Joseph N. DiVincenzo, Jr.		

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SESSION 3	Lower Passaic Human and Ecological Health Moderator: Judy Weis, Rutgers University Newark	Lower Passaic Sediment Dynamics Moderator: Scott Douglas, NJ Dept. of Transportation Office of Maritime Resources	Water quality monitoring and modeling Moderator: Sheldon Lipke, Passaic Valley Sewerage Commissioners
1:45 PM	Historical and Current Ecological Conditions of the Lower Passaic River. Mike Johns, Windward Environmental	Historical bathymetric changes in the Lower Passaic River. William Hansen, Worcester State College	Water Supply Protection through Continuous Stream Monitors. Paul Schorr, NJDEP
2:00 PM	Altered Gonadal Development in Newark Bay Organisms. Keith Cooper, Rutgers University	Understanding of Sediment Transport in the Lower Passaic River. Craig Jones, SEA Engineering	Continuous Water Quality Monitoring of the Hackensack River. Joseph Grzyb, Meadowlands Environmental Research Institute
2:15 PM	Application of Behavioral Simulation Modeling to Evaluate Anglers' Fish Consumption. Jason Kinnell, Veritas Economic Consulting	Effects of morphological change in the Passaic River/ Newark Bay system on circulation and sediment transport processes. Robert Chant, Rutgers University	Pathogen Sources and FC-EC relations in the Lower Passaic River. David Vaccari, Stevens Institute of Technology
2:30 PM	Human Health Risk Assessment for Consumption of Fish from the Lower Passaic River. Mark Harris, ToxStrategies, Inc.	Morphology, Modeling and Bathymetry: Application of Physical indicators to Evaluate Sediment Stability in the Lower Passaic River. Han Winterwerp, Deltares	NYHOPS v3 OFS: New hydrodynamic and water quality forecasts include the Passaic River. Nickitas Georgas, Stevens Institute of Technology
2:45 PM	BREAK -- COFFEE ON THE 7TH FLOOR		

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SESSION 4	Restoration and Remediation Moderator: Eric Stern, USEPA	Lower Passaic Sediment Dynamics Moderator: Constantine Theodosiou, Montclair State University, Vice Provost for Research	Water quality, Stormwater Management and Flood Mitigation Moderator: Kathleen Caren, Passaic County Dept. of Planning
3:15 PM	Incentive Based Environmental Restoration and Planning, Shifting the Paradigm. Stephen Davis, Matrix New World Engineering, Inc.	Sediment Stability in the Lower Passaic River - Integration of Multiple Lines of Evidence. Michael Barbara, mab.consulting LLC	Passaic River Flood Mitigation Non-Structural Solutions. Hormoz Pazwash, Boswell Engineering
3:30 PM	Urban River Restoration. Terry Doss, Biohabitats	Hydraulic Modeling for Preliminary Evaluation of Potential Flooding Impacts for Various Dredging, Capping and Armoring Scenarios. Abdulai Fofanah, The Louis Berger Group, Inc.	Long-Term Operation of Stormwater Infiltration Best Management Practices. Clay Emerson, Princeton Hydro LLC
		Water Supply in the upper Passaic Basin Moderator: Linda Watkins- Brashear, Newark Watershed Conservation and Development Corporation	
3:45 PM	Topsoil from Contaminated Sediment from the Lower Passaic River, BioGenesis Sediment Washing Technology. John Sontag, BioGenesis Enterprises, Inc.	Water Pollution Analysis in New Jersey, Employing the Cutting Edge Analytical Technology of 1876. Kevin Olsen, Montclair State, Passaic River Institute	The Edison Environmental Center permeable pavement site: initial results from a stormwater control designed for monitoring. Thomas O'Connor, U. S. EPA, ORD, UWMB
4:00 PM	Utilization of Barrier and Treatment Designs to Address Irregular Shoreline Surfaces and Control of Contaminant Migration. John Hull, AquaBlok, Ltd.	Highlands Water Availability in the Passaic Basin. Daniel Van Abs, NJ Highlands Council	Improving River Water Quality by CSO Disinfection. John Meakim, Engineers Plus
4:15 PM	RECEPTION, POSTERS AND EXHIBITS ON 7th FLOOR		

POSTERS

A Systems Dynamics Approach to Test the Proposed LEED for Neighbor Development Rating Systems as a Holistic and Sustainable Redevelopment Option for the Lower Passaic River Watershed Area. Amy Ferdinand, Montclair State University

Iron Oxide Coated Multiwall Carbon Nanotubes for the Removal of Arsenic from Water. Susana Addo Ntim, New Jersey Institute of Technology

Carbon Nanotubes Immobilized Membrane for Enhanced Analytical Separation. Ornthida Sae-Khow, New Jersey Institute of Technology

An Integrated Plan for Open Space, Recreation and BMPs along the Passaic River in Paterson: A Circuit Greenbelt. Marcia Anderson, Montclair State University

Water Supply and Power in 1894. Paul Schorr, NJDEP

Lower Passaic River Commercial Navigation Analysis Update. Tricia Aspinwall, US Army Corps of Engineers - New York

Carbon Nanotubes as the Sorbent for Integrating μ -Solid Phase Extraction within the Needle of a Syringe. Madhuleena Bhadra, New Jersey Institute of Technology

Assessing stream restoration efforts in northern New Jersey. Jared Lopes, Montclair State University, Passaic River Institute

The impact of Japanese knotweed on stream baseflow. Rob Scherr and Dirk Vanderklein, Montclair State University

Application of GIS to assess land use change to urban use in Passaic River Basin: A watershed approach to counter climate change. Faith Justus, Montclair State University

Soil Composition and Transfer of Metals on Nutritional Quality of Vegetables Grown in Urban Community Gardens. Khadija Latif, Montclair State University

Reducing Contaminated Groundwater Flow to Rivers: Evaluation of Alternative Active Cap Designs. Ravi Srirangam, Adventus Group

The Effects of Distance and Selective Enrichment on Alkane Monooxygenase Gene Diversity in Passaic River Sediment. Elyse Rodgers-Vieira, Rutgers University

PCB Mass Loading Project: Identifying Non-point Source PCB Contribution to the Surface Waters of the Christina River Basin. John-Paul Rossi, BrightFields, Inc

A Unique Private/Public Wetland Mitigation Bank Partnership in the Hackensack Meadowlands of New Jersey. Margaret McBrien, The Louis Berger Group, Inc.,

Design of Infiltration Stormwater Facilities by Limit Equilibrium Analysis of Hydraulic Conductivity and Geometry. Keith Merl, Princeton Hydro, LLC

Molluscan Community and Population Structure in an Urban Pond in the Lower Passaic River Watershed, New Jersey. Rebecca Shell, Montclair State University, Passaic River Institute

Standards for the Construction and Development Point Source Category Final Rule - How Does this Affect the Passaic River Watershed, and When? Keith Merl, Princeton Hydro, LLC