

**Second Passaic River Symposium  
PROGRESS AND CHALLENGES**

**October 13, 2006, Montclair State University Conference Center, Montclair, NJ**

**Conference web site: [www.csam.montclair.edu/pri/symposium2006](http://www.csam.montclair.edu/pri/symposium2006)**

**Organized by the Passaic River Institute of Montclair State University  
and the Hudson-Delaware Chapter, Society of Environmental Toxicology & Chemistry**

8:00	<b>Registration and Continental Breakfast</b>	
8:30	<b>Opening Remarks</b> <ul style="list-style-type: none"> <li>• Kirk Barrett, Co-Chair, Passaic River Institute, Montclair State University (PRI, MSU)</li> <li>• Judith Minier, MSU Associate Vice President for Academic Affairs For Curriculum and Instruction</li> <li>• Carolyn Bentivegna, President, Hudson Delaware Chapter of the Society of Environmental Toxicology and Chemistry (HDC/SETAC)</li> <li>• Lisa Baron, Co-Chair, NJ Department of Transportation (NJDOT) and HDC/SETAC</li> </ul>	
8:45	<b>Agency Overview of Watershed Priorities and Vision</b> <ul style="list-style-type: none"> <li>• Alan Steinberg, Region 2 Administrator, US Environmental Protection Agency (USEPA)</li> <li>• Colonel Aniello Tortora, NY District Commander, US Army Corps of Engineers (USACE)</li> <li>• Kris Kolluri, Commissioner, NJDOT</li> <li>• Lisa Jackson, Commissioner, NJ Department of Environmental Protection (NJDEP)</li> </ul>	
9:45	<b>Break (split into concurrent sessions)</b>	
10:00	<b>Track A – Lower Passaic River,</b> University Hall Conference Center Overview – Lisa Baron, Moderator	<b>Track B – Upper Passaic River and Tributaries            and NY/NJ Harbor,</b> University Hall Room 1050 Overview – Kirk Barrett, Moderator
10:10	<b>Assessment of Contaminant Sources, Inventory            Transport</b> Environmental History of the Harrison Reach, Stephen Marshall	<b>Water Quality and Flooding</b> Phosphorus TMDL Development for the Non- Tidal Passaic River Basin, James Cosgrove, TRC Omni
	Recent Findings on the Extent of Contamination in the Lower Passaic, Ed Garvey, Malcolm Pirnie, Inc.	The Development of a restoration plan for Greenwood Lake, NJ-NY, based on the lake's Phosphorus TMDL, Fred Lubnow, Princeton Hydro, LLC
	Response of Salt, Circulation and Sediment Transport to Variations in Tidal Forcing and River Discharge, Robert Chant, Rutgers University	Water Quality Trading in the Non-Tidal Passaic River Watershed, Christopher C Obropta, Rutgers University
	Polycyclic aromatic hydrocarbons (PAHs) and petroleum biomarker compounds in sediments of Harrison Reach (Passaic River, New Jersey) Michael Kruge, Passaic River Institute MSU	Using a River Basin Management Approach to Keep Clean Water Clean – Potential application to Passaic River basin system, Ben Witherell, MSU
	3D Hydrodynamic Modeling, Nicholas Kim, HydroQual, Inc.	Passaic River Basin Flooding – Summary History of Flood Damage Reduction Studies and Projects, Paul Tumminello, USACE
	<b>Comprehensive Restoration Planning for the Lower Passaic River Restoration Project,</b> Peter Weppler, USACE	Analysis of Environmental and Economic Benefits of Natural Flood Storage areas in the Passaic River, Josephine R. Axt, Northern Ecological Associates, Inc,
12:00	<b>Lunch and Poster/Exhibit viewing</b>	
1:30	<b>Speaker – Hon. William J. Pascrell, Jr., US Congressman, NJ 8<sup>th</sup> District (Essex and Passaic Counties), introduced by Dr. Susan A. Cole, President, Montclair State University</b>	

2:00	<b>Remediation Strategies</b> , John Taylor, MSU - Moderator	<b>Groundwater, Stormwater and Nonpoint Pollution Control</b> , Peter Brussock, HDC-SETAC, Environmental Liability Management – Moderator
	Environmental Dredging Pilot on the Lower Passaic, Lisa Baron, NJDOT	Simulation of Groundwater Response to Development, Passaic River Basin, New Jersey, Fatoumata Barry, MSU
	Full-Scale Sediment Decontamination Demonstration, Eric Stern, USEPA	The East Orange Water Reserve – 100 Years of Wellhead Protection, Vincent W Uhl, Uhl, Baron, Rana & Associates, Inc
	In situ deep Soil Mixing for Solidification of Soft Estuarine Sediments, Ali Maher, Rutgers University	The Preakness Brook Restoration and Protection Project, Richard Pardi, William Paterson University
	Evaluation of Early Actions for Remediation, Scott Thompson, Malcom Pirnie, Inc.	The Impact of the Municipal Stormwater Regulations on the Quality of the Passaic River, Tosin Sekoni, NJDEP
3:00	<b>Break</b>	
3:30	<b>Planning for the Future</b> , Ronald MacGillivray, HDC-SETAC, Delaware River Basin Commission – Moderator	<b>Significance for the NY/NJ Harbor</b> , Michael Kruge, MSU – Moderator
	Passaic River Restoration 1980 to Present, Ella Filippone, Passaic River Coalition	Development of a Long-Term Water Quality Sampling Program for the NJ Waters of NY/NJ Harbor, G. M. DeGraeve, Great Lakes Environmental Center
	Economic Revitalization, Adam Zellner, NJDEP	Event-Based Variability in Particulate Dioxin/Furan Concentrations in the Surface waters of the Passaic River-Newark Bay Complex, Joel Pecchioli, NJDEP
	The How and When of Habitat Restoration: Exploring the Challenges of Restoring Urban Environments, Eli Reinharz, NOAA Damage Assessment Center	Fate and Transport Modeling of Sediment Contaminants in the NY/NJ Harbor Estuary, Robin Landeck Miller, HydroQual, Inc.
	The “New Regionalism” and Local Muscle Assures That the Passaic Will Be Usable Again, Andy Willner, NY/NJ Baykeeper	PVSC’s Education and Outreach Program, Christopher Brooks, Passaic Valley Sewerage Commissioners
	Coupling Ecological Restoration with Bioremediation to Target Dioxin Mineralization, Metal and Hydrocarbon Removal in the Passaic River, Paul Mankiewicz, Gaia Institute	Blue Crabs: A Biomarker of Persistent Dioxin Contamination in the Lower Passaic River and Newark Bay Complex, Gary Buchanan, NJDEP
	Perspectives from the Cooperating Parties Group, William Hyatt, Jr., Kirkpatrick and Lockhart, Inc.	Dioxin Inputs from Contaminated Land Sites along the Passaic River, Gabriela Munoz, NY Academy of Sciences
5:00	<b>Closing remarks</b> Robert Prezant, Dean, College of Science and Mathematics, Montclair State University	
5:15	<b>Exhibit/Poster Social and Reception</b>	

<b>Posters: Title and Presenting Author</b>
1. Expanding the Scope of Restoration Opportunities for the Passaic River-Newark Bay Complex, Carl Alderson, NOAA Fisheries Restoration Center
2. Effects of Urbanization on Stream Baseflow in NJ, Kirk R. Barrett, Passaic River Inst., MSU
3. Is Flooding Getting Worse in New Jersey? A historical, empirical analysis of flood frequency and magnitude, Kirk R. Barrett, Passaic River Inst, MSU
4. Contaminant Assessment and Reduction Program (CARP) Overview as Related to Contaminants Being Discharged to the Passaic River, G.M. DeGraeve, Great Lakes Environmental Center
5. Passaic Valley Sewerage Commissioners' Passaic River/Newark Bay Restoration Program, Robert DeVita, Passaic Valley Sewerage Commissioners
6. Water & Ecosystem Quality in an Urban Stream – Preakness Brook, Passaic County, New Jersey, Sheri Distasi, William Paterson University
7. Land Preservation along the Lower Passaic River, Catherine Elliott-Shaw, NJDEP, Green Acres Program
8. Dechlorination of PCDD/Fs and carbon stable isotope fractionation of PCDDs by Dehalococcoides ethenogenes strain 195, Donna Fennell, Rutgers University
9. Metal Impacts on Benthic Macroinvertebrate Community and their implications for the feeding habit of Mummichogs, Daisuke Goto, City University of New York
10. Quantifying Enhanced Microbial Dehalogenation of Organohalide Mixtures in Contaminated Sediments, Valdis Krumins, Rutgers University
11. Natural Resource damage assessments in Urbanized and changing habitats – Berry's Creek, New Jersey, Mark Laska, Great Eastern Ecology, Inc.,
12. Habitat for the Ribbed Mussel <i>Geukensia Demissa (Dillwyn)</i> Explained by Current speeds near and stem densities of <i>Spartina alterniflora</i> and <i>Phragmites australis</i> in Saw Mill Creek of the Hackensack Meadowlands, Marion McClary, Fairleigh Dickinson University
13. Salt Marsh Sediment Metal Concentrations: An Approximation of Metal Bioavailability, Caitlyn Nichols, City University of New York Graduate Center
14. Winter on the Preakness Brook, Land use and Nitrate concentrations for October 2005 to April 2006, Kevin Olsen, Passaic River Institute, MSU
15. Cargoes from Acquackanonk, Early commercial shipping on the Passaic River, Kevin Olsen, Passaic River Institute, MSU
16. The NJ Toxics Reduction Workplan for NY-NJ Harbor: Overview of the Water Quality Sampling Program, Joel A. Pecchioli, NJ Department of Environmental Protection
17. The New Jersey Toxics Reduction Workplan for NY-NJ Harbor: Distribution of Cd, Pb, Hg and methyl-Hg in Ambient Waters, Joel A. Pecchioli, NJ Department of Environmental Protection
18. The Lower Passaic & Saddle River Alliance, Thomas Pietrykoski, Passaic Valley Sewerage Commissioners
19. Toxic Crab Outreach in the Newark Bay Complex: Working with Local Liaisons to Communicate the Dangers of Eating Contaminated Crabs, Kerry Kirk Pflugh, New Jersey Department of Environmental Protection
20. Temporal molluscan community structure and diversity found in an urban New Jersey pond, Robert Prezant, Passaic River Institute, MSU
21. CSO Long Term Control Plan – Critical Issues To Consider When Preparing The Technical Guidance Manual For Pre-Treatment/Disinfection, Robert Curti, Hatch Mott MacDonald
22. Influence of Pre-exposure to Dietary metal on the assimilation of Cadmium by Grass shrimp, David Seebaugh, City University of New York
23. Understanding the Ecological Impacts of Climate Change in the Mid-Atlantic Region of the United States, John A. Taylor, MSU
24. Brownfields Redevelopment in Paterson, New Jersey, Robert W. Taylor, MSU