



September 15–16

2010

**Watershed Science and  
Technical Conference**

**Thayer Hotel, West Point, NY**



## 2010 Watershed Science and Technical Conference September 15–16, Thayer Hotel, West Point, NY

Each year, this conference showcases the most current trends, technologies and scientific developments in the arena of watershed protection and management. Usually, in response to our Call for Abstracts, a dominant theme appears reflecting the newest concern, a technological breakthrough, or the latest shifts regulatory tone and reach. Last year for example, Climate Change was the topic thread woven throughout our two-day discussions.

This year, while the traditional offering of cutting-edge information continues, a primary theme is decidedly absent. Instead, the conference punctuates the multiple longstanding themes that remain central to the business of caring for a watershed:

- Stormwater control
- Wastewater treatment
- Stream health
- Emerging contaminants and microconstituents
- Monitoring and modeling
- Pathogens, nutrients, and turbidity
- Recreational use, forestry, agriculture and more

We work together on these issues every day, and we've talked about them at conferences past, so we thought it opportune to

'circle back' and update our attendees on the newest findings and accomplishments in areas that are the 'ways and means' of watershed stewardship.

This conference continues its long history of bringing scientists, engineers and technical experts together with watershed stakeholders and the public to technically inform and present leading-edge research findings on the most current scientific trends and data regarding the New York City Watershed and other water supplies across the country.

Who should attend? Elected officials, directors of public works, buildings, planning and highway departments, land use planners, consulting engineers, regulated industries, attorneys, educators, environmental groups and interested citizens, and everyone interested in clean water. Conference attendees will find themselves in a unique forum for collaboration, providing an opportunity to enhance information and technology transfer and increase coordination among the array of entities working with watershed protection science.

### Organizers



**The New York Water Environment Association, Inc. (NYWEA)** – Founded in 1929, by professionals in the field of water quality as a non-profit, educational organization. Association members helped lead the way toward existing state and national clean water programs. Today the Association has over 2,500 members representing diverse backgrounds and specialties, but all are concerned and involved with protecting and enhancing our precious water resources.  
[www.nywea.org](http://www.nywea.org)



**The Watershed Protection and Partnership Council** – Created by the historic New York City Watershed Memorandum of Agreement to provide a regional forum to aid in the longterm protection of New York City's drinking water, and the economic vitality of the Upstate Watershed communities.  
[www.dos.state.ny.us/watershed/WPPC.htm](http://www.dos.state.ny.us/watershed/WPPC.htm)



**New York State Department of State** – The Office of the Secretary of State was established in 1778, making it, other than the Offices of Governor and Lieutenant Governor, the oldest agency in the administration of New York State government.  
[www.dos.state.ny.us](http://www.dos.state.ny.us)



**The New York State Department of Environmental Conservation** – Exists to conserve, improve, and protect New York State's natural resources and environment, and control water, land and air pollution, in order to enhance the health, safety and welfare of the people of the state and their overall economic and social well being.  
[www.dec.state.ny.us](http://www.dec.state.ny.us)

### Many Thanks to the Conference Sponsors

- Catskill Watershed Corporation
- New York City Department of Environmental Protection
- New York State Department of Environmental Conservation
- New York State Department of Health
- New York State Department of State
- New York Water Environment Association, Inc. Lower Hudson Chapter
- The New York State Environmental Facilities Corporation
- United States Geological Survey
- Watershed Protection and Partnership Council

# Watershed Science and Technical Conference

## September 15–16, 2010 – Program and Schedule

### **DAY 1** **Wednesday, September 15, 2010** (Location: Crest Terrace Entire)

8:00 am	Registration
9:00 am	Welcome – Thomas Whetham, NYWEA President
9:15 am	Opening Remarks – William C. Harding, WPPC Executive Director
9:30 am–9:50 am	Pete Grannis, Commissioner, NYS DEC (Invited) Caswell Holloway, Commissioner, NYC DEP
10:00 am–10:30 am	Break

### **MORNING** **SESSION I** (Location: Crest Terrace North)

Contact Hours: 2 Engineer

10:30 am	<b>Rain Gardens at Vassar College: A Water Quality Assessment</b> Emily Vail, Vassar College Environmental Research Institute; Lynn Christenson, PhD, Mary Ann Cunningham, PhD, Stuart Belli, PhD, Vassar College
11:00 am	<b>Manursing Lake Tidal Gate Replacement and Aquatic Habitat Restoration</b> Hugh Greechan, Thomas Shay, Woodard & Curran; Sven Hoeger, Creative Habitat Corp.
11:30 am	<b>Converting a Bowling Alley to Wetlands:</b> <b>Wetland and Stream Restoration in New York City’s Water Supply Watershed</b> Laura Csoboth, John Roebig, HDR; Jose Nieves, Maria G. Mandarino, PE, NYC Department of Environmental Protection
12:00 pm	<b>Community Implementation of the Moodna Creek Watershed Management Plan, Orange County, NY</b> Kelly Dobbin, Orange County Water Authority; Michael Principe, Michael Murphy, HDR; Katy Dunlap, Simon Gruber
12:30 pm–1:30 pm	Lunch

### **AFTERNOON** **SESSION II** (Location: Crest Terrace North)

Contact Hours: 2 Engineer 2 Wastewater

1:30 pm	<b>Tertiary Treatment Upgrades Before/After Impact Study: Effluent and Lake Phosphorus Results</b> Jose Lozano, Lynn Smith, City of Ithaca
2:00 pm	<b>Advanced Oxidation Processes and Reverse Osmosis Treatment of Pharmaceutical in a Municipal Wastewater Treatment Plant Effluent</b> Darcy Sachs, Scott A. Grieco, Tee Tong-Ngork, O’Brien & Gere Engineers, Inc.; Patrick J. Phillips, US Geological Services
2:30 pm	<b>Post Regulatory Upgrade Effluent Water Quality Improvements at the Delhi, NY, Wastewater Treatment Plant</b> Paul LaFiandra, NYC Department of Environmental Protection
3:00 pm	<b>Is Wastewater Reuse Coming to the “Water Rich” Northeast? The University of Connecticut Evaluates MF/RO and UV to Solve Its Water Supply Problems</b> Scott Bennett, Richard Cisterna, Joyeeta Banerjee, Hazen and Sawyer, P.C.

PDHs, Water and Wastewater Contact Hours are also being applied for.

**AFTERNOON** **SESSION III** (Location: Crest Terrace South)  
 Contact Hours: TBA Engineer

1:30 pm **Mercury Cycling and Bioaccumulation in a Central Adirondack Stream Ecosystem**  
 Karen Riva-Murray, Douglas A. Burns, US Geological Survey

2:00 pm **Ammonia Recovery Process for Municipal and Agricultural Applications**  
 Morton Orentlicher, PhD, ThermoEnergy\Castion Corporation; Tim Shephard, Cornell University

2:30 pm **Trends in Stream Macroinvertebrate Bioassessments  
 in New York City Water Supply Watershed Streams, 1994–2009**  
 Martin Rosenfield, NYC Department of Environmental Protection

3:00 pm **A Comparison of Field and Lab Filtration of Samples to Meet the Methods Update Rule**  
 Gerard Marze, Karen E.B. Moore, NYC Department of Environmental Protection

**AFTERNOON** **SESSION IV** (Location: Lawn Terrace)  
 Contact Hours: 2 Engineer 2 Wastewater

1:30 pm **FAD Related Stormwater Control – Drewville Road**  
 Eric Lochner, Jesse Horsford, PE, Gannett Fleming;  
 Maria Mandarino, PE, Zaidoun Ereifej, NYC Department of Environmental Protection

2:00 pm **Stormwater Retrofit Program in the New York City Watershed**  
 Andric Rodriguez, Lowell Kachalsky, O'Brien & Gere Engineers, Inc.

2:30 pm **Phased Activated Sludge Concept Retrofitted for Compliance  
 with Chesapeake Bay Nutrient Reduction Initiative**  
 Dave Holland, Aqua-Aerobic Systems, Inc.

3:00 pm **Catskill Aqueduct Stop Shutter Improvements**  
 Ginger Modafferi, HDR Engineering; Maria Mandarino, PE, Zaidoun Ereifej,  
 NYC Department of Environmental Protection

3:30 pm Break

4:00 pm Bus departs from front of Hotel for tour of historic West Point Campus

5:30 pm Reception

**DAY 2** **Thursday, September 16, 2010**

**MORNING** **SESSION V** (Location: Crest Terrace North)  
 Contact Hours: 2.5 Engineer 2.5 Wastewater

8:00 am Registration and coffee

9:00 am **Building New York City's Operations Support Tool: (1) Background and Need**  
 James H. Porter, PhD, NYC Department of Environmental Protection;  
 Grantley W. Pyke, PE, Hazen and Sawyer, P.C.

9:30 am **Building New York City's Operations Support Tool: (2) Structure and Functionalities**  
 William Weiss, PhD; Grantley W. Pyke, PE, Hazen and Sawyer, P.C.;  
 Daniel P. Sheer, HydroLogics, Inc.; James H. Porter, NYC Department of Environmental Protection

10:00 am Break/Refreshments

10:30 am **Longterm Survival of Fecal Bacteria in Hudson River Sediment**  
 Timothy Kenna, PhD, Lamont Doherty Earth Observatory; Andrew S. Ferguson, Columbia University;  
 Alice Layton, University of Tennessee; Brian J. Mailloux, Barnard College

11:00 am **Occurrence of Cyanobacteria Toxins in New York State – The Facts Behind the Headlines**  
 Gregory Boyer, PhD, SUNY College of Environmental Science and Forestry

11:30 am **Are Coliform Bacteria Good Indicators of Pathogen Occurrence in NYC Source Water?**  
 Kerri Alderisio, NYC Department of Environmental Protection

12:00 pm Lunch

**AFTERNOON****SESSION VI** (Location: Crest Terrace North)

Contact Hours: 2 Engineer 1 Wastewater

1:00 pm

**Evaluation of Perennial Stream Protozoan Data to Establish Means and Percentile Range Guidelines for Potential Resampling**

Christian Pace, Kerri Alderisio, NYC Department of Environmental Protection

1:30 pm

**Identifying High Septic Density Areas in the Wappinger Creek Watershed**

Neil Curri, Cornell Cooperative Extension, Dutchess County;

Russell Urban-Mead, Chazen Companies; Celine Teo Ying Zhen, Vassar College

2:00 pm

**The History of Algal and Bacterial Blooms and Their Management in New York City Reservoirs**

Lorraine Janus, PhD, NYC Department of Environmental Protection

2:30 pm

**Addressing Invasive Species in the New York City Watersheds: The Invasive Species Working Group**

Barbara Dibeler, NYC Department of Environmental Protection

**MORNING****SESSION VII** (Location: Crest Terrace South)

Contact Hours: 2.5 Engineer

8:00 am

Registration and coffee

9:00 am

**Water Quality Trends in NYC Watershed East of Hudson Streams (1993–2009)**

James Mayfield, NYC Department of Environmental Protection

9:30 am

**Final Results of the Catskill Forest Nutrient Imbalance Experiment**

Gregory Lawrence, PhD; Douglas A. Burns, US Geological Survey

10:00 am

Break/Refreshments

10:30 am

**From Drinking Water Taste Complaints to a Source Water Algae Bloom –****NYC DEP's Experience with and Management of *Chryso-sphaerella* in Kensico Reservoir**

Tracy Lawrence, NYC Department of Environmental Protection

11:00 am

**Protecting Ground Water via Pesticide Registration in New York**

Steven Pacenka, Brian K. Richards, PhD, Cornell University

11:30 am

**Historical Trends of Permitted Right-of-Way and Aquatic Pesticide Use within the New York City Watershed System and Aqueduct Property (1993–2009)**

David Quentin, NYC Department of Environmental Protection

12:00 pm

Lunch

**AFTERNOON****SESSION VIII** (Location: Crest Terrace South)

Contact Hours: 2 Engineer

1:00 pm

**Comparison of Two Change Factor Methodologies over West of Hudson (WOH) Catskill Mountain Watersheds**

Aavudai Anandhi, Allan Frei, City University of New York;

Donald C. Pierson, David G. Lounsbury, NYC Department of Environmental Protection

1:30 pm

**A Historical Analysis of Water Quality Data in the New York City Watershed Streams Using the Protocols of the DEC/DEP Memorandum of Understanding**

Ray Homolac, NYC Department of Environmental Protection

2:00 pm

**The Importance of Snow and Snowmelt in Present and Future Simulations of New York City Reservoir Water Quality**

Donald Pierson, PhD, Mark S. Zion, NYC Department of Environmental Protection;

Adao Matonse, City University of New York

2:30 pm

**Effects of Longterm Trends in Solar Radiation on Watershed Evapotranspiration and Implications for Modeling and Longterm Planning in New York City's Water Supply Watersheds**

Mark Zion, Donald Pierson, Elliot Schneiderman, NYC Department of Environmental Protection

**MORNING****SESSION IX** (Location: Lawn Terrace)

Contact Hours: 2.5 Engineer 1.5 Wastewater

- 8:00 am Registration and coffee
- 9:00 am **NYC DEP Forest Management Plan**  
Fred Gliesing, NYC Department of Environmental Protection; Bruce D. Higgins, USDA
- 9:30 am **Acidification Status of Streams and Soils of Forested Lands of the Catskill Mountains, NY**  
Jason Siemion, Gregory B. Lawrence, Peter S. Murdoch, US Geological Survey
- 10:00 am Break/Refreshments
- 10:30 am **Optimization of Anaerobically Digested Dairy Manure Parameters for Phosphorus Recovery**  
Matt Huchzermeier, Wendong Tao, PhD, SUNY College of Environmental Science and Forestry
- 11:00 am **Hormones, Pharmaceutical Compounds and Estrogenicity of Wastewater Effluents from Different Treatment Plant Types in New York State**  
Anne Ernst, Patrick J. Phillips, Barry P. Baldigo, US Geological Survey
- 11:30 am **Pharmaceutical Compounds in the West Point Wastewater Treatment System – Modeling and Analysis**  
Richard Hoff, PhD, United States Military Academy
- 12:00 pm Lunch

**AFTERNOON****SESSION X** (Location: Lawn Terrace)

Contact Hours: 2 Engineer 2 Wastewater

- 1:00 pm **Pharmaceutical and Personal Care Products in New York City's Watersheds: Results from DEP's 2009 Study**  
Timothy Martin, David Lipsky, PhD, Ian Hurley, PhD, Carla Glaser, NYC Department of Environmental Protection
- 1:30 pm **Pharmaceutical Formulation Facilities as Sources of Pharmaceuticals to the Environment**  
Patrick Phillips, US Geological Survey
- 2:00 pm **Silver Nanotechnology Unregulated, Emerging Contaminants: Bioaccumulation, Toxicity and Genotoxicity Effect in Exposed Aquatic Organisms**  
Allen Clayton, Rachel Serafin, Chau Quach, Zofia Gagnon, Marist College
- 2:30 pm **Microconstituents: Why All the Concern? How Can They Be Controlled and Treated?**  
Joseph Cleary, HydroQual, Inc.

**MORNING****SESSION XI** (Location: Highlands Room)

Contact Hours: 2.5 Engineer

- 8:00 am Registration and coffee
- 9:00 am **Assessment of Regional Forest Health and Stream and Soil Chemistry Using a Multi-scale Approach and New Methods of Remote Sensing Interpretation in the Catskill Mountains of New York**  
Richard Hallett, PhD, USDA Forest Service; Jason Siemion, US Geological Survey; Mary Martin, Lucie Lepine, University of New Hampshire; Jen Pontius, University of Vermont
- 9:30 am **Proven Value of Watershed and Reservoir Modeling for a Remedial Investigation**  
William McMillin, Jamie Butler, Klaus Albertin, Alam Mohammed, CH2M HILL
- 10:00 am Break/Refreshments
- 10:30 am **Suspended Sediment Transport Dynamics in the Esopus Creek Watershed**  
Rajith Mukundan, City University of New York; Donald C. Pierson, Elliot Schneiderman, NYC Department of Environmental Protection; David O'Donnell, UFI

- 11:00 am **Assessment, Restoration and Management of Watersheds:  
A Pilot Effort on the Esopus Creek in the Catskill Mountains of New York State**  
Sarah Miller, J. Craig Fischenich, PhD; Michael G. Channell, PhD, US Army Engineer Research and Development Center; W. Daniel Davis, NYC Department of Environmental Protection
- 11:30 am **Geologic Investigations Supporting Stream Management Strategies  
in the Ashokan Reservoir Watershed: A Status Report**  
Dan Davis, NYC Department of Environmental Protection; Andrew Kozlowski, PhD, NYS Geological Survey; John Rayburn, PhD, SUNY New Paltz; Cory Ritz, Ulster County Soil and Water Conservation District
- 12:00 pm Lunch

**AFTERNOON** **SESSION XII** (Location: Highlands Room)  
Contact Hours: 2 Engineer

- 1:00 pm **Suspended Sediment and Turbidity in the Esopus Creek Watershed**  
Christiane Mulvihill, Jason Siemion, Michael R. McHale, US Geological Survey
- 1:30 pm **Effects of Altered Hydrologic, Turbidity and Thermal Regimes  
on Rainbow and Brown Trout Populations in the Upper Esopus Creek**  
T.J. Ross, Cornell University; William L. Fisher, Barry P. Baldigo, US Geological Survey; Thomas P. Baudanza, NYC Department of Environmental Protection
- 2:00 pm **How Is Forest Harvesting Intensity Related to Water Quality in the Catskill Mountains?**  
Douglas Burns, Jason Siemion, Peter Murdoch, US Geological Survey; Rene Germain, SUNY College of Environmental Science and Forestry
- 2:30 pm **Ecosystem Disturbance in Catskill Mountain Streams:  
Indicators of Climate Change or Coincidence?**  
Barry Baldigo, M. McHale, D.A. Burnam, Peter Murdoch, US Geological Survey; A.J. Smith, NYC Department of Environmental Protection

**MORNING** **SESSION XIII** (Location: Garden Terrace South)  
Contact Hours: 6 Engineer 6 Wastewater

- 8:00 am–12:00 pm **Asset Management Workshop**  
Phil Smith  
Water and wastewater infrastructure represent a huge capital investment and an Asset Management Plan (AMP) or program provides the foundation for the protection of those critical assets. There is significant focus at both the state and federal level on this topic. Communities may be required to develop an AMP as part of a DEC Consent Order. Additionally, the Environmental Facility Corp. is modernizing their scoring system to include points for AMP and Capital Improvement Planning.  
This workshop is intended for water and wastewater plant staff, superintendents, consulting engineers, regulatory personnel and local/elected officials that are or may be involved with an asset management or capital improvement program. Attendees will receive a sample Asset Management Plan that was developed for a small community. The document serves as a good example or a model of how to develop and implement an Asset Management Program.
- 12:00 pm Lunch
- 1:00 pm–4:00 pm **Continuation of Assessment Management Workshop**  
Phil Smith

# Watershed Science and Technical Conference – Exhibition

September 15–16, 2010

2-Day Exhibition

A limited number of exhibit spaces are available at The Thayer Hotel.

Booth cost is \$550. For more information, contact Maureen Kozol at (315) 422-7811, ext. 3.

Company \_\_\_\_\_

Contact Person \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Email \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Payment:  Cash  Check (Please make checks payable to: NYWEA)

VISA  MasterCard  AMEX

Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

NYWEA, Inc., 525 Plum Street, Suite 102, Syracuse, New York 13204

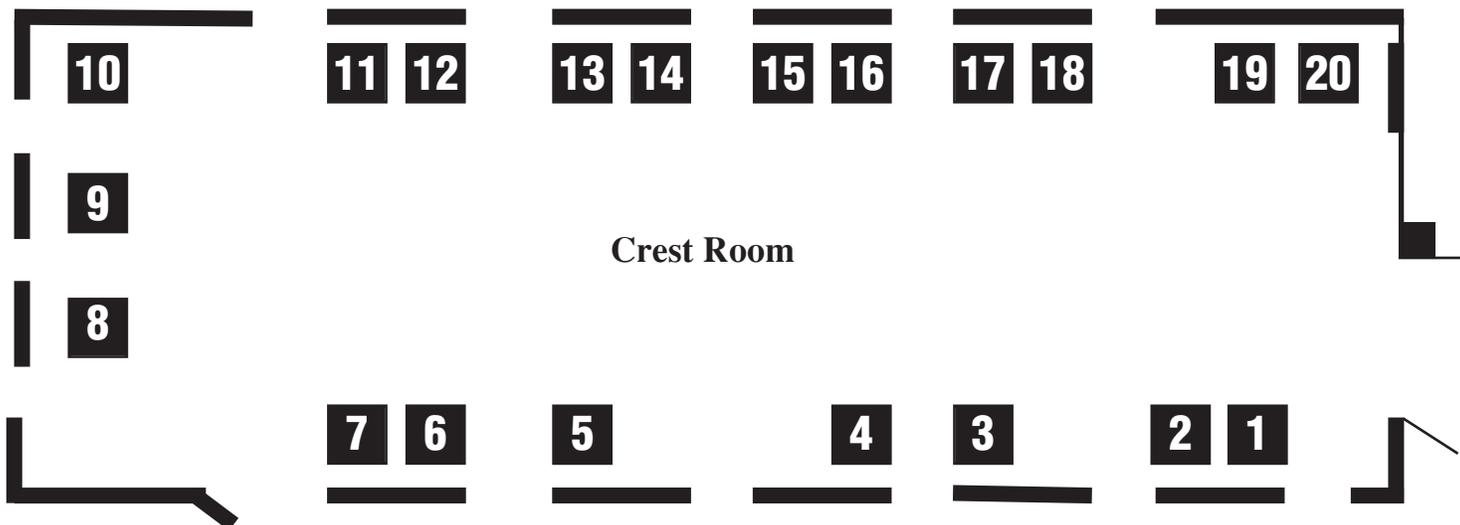
Conference sponsorships are also available.

For more information, contact Maureen Kozol at (315) 422-7811, ext. 3

Wednesday  
8:30 am–4:00 pm

Thursday  
8:30 am–3:30 pm

## Exhibitors' Floor Plan



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## Hotel Information

The Thayer Hotel at West Point  
674 Thayer Rd., West Point, NY 10996  
800-247-5047 or 845-446-4731  
Fax 845-446-0338

The Thayer at West Point, part of American history since 1926, offers a truly unique venue for the Watershed Conference. Named for Colonel Sylvanious Thayer, Superintendent of the Military Academy from 1817 to 1833, The Thayer Hotel shares its grounds with the makers of America's top military leaders.

Listed on the National Registry of Historic Places, The Thayer Hotel boasts spectacular views of the Hudson River and surrounding highlands.

A block of rooms has been reserved at the the Thayer Hotel for the Watershed Conference. To make your reservation, please contact the hotel directly. Room rate is \$114 Single/Double.

Please reference Group Code: NYWEA

***Special Note: Please be prepared with proper identification (Driver's License) and conference information as you enter the military campus.***

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## Tuesday Special Event

3:45 pm–6:30 pm     **Sail Aboard the Clearwater Sloop**  
Cost: \$40 (Seating Limited to 35 People)

Join us for a unique opportunity to sail aboard the Clearwater sloop – a 106-foot wooden sailing vessel designed after 17th and 18th centuries' Dutch sailing sloops.



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## Wednesday Special Events

3:45 pm–5:30 pm     **Tour of United States Military Academy at West Point**  
Cost: \$25 (Limited Seating)

Enjoy a fascinating bus tour of the USMA campus with interesting contemporary and historical stops. The tour starts at the Visitors Information Center and stops at the Cadet Chapel which houses the world's largest church pipe organ as well as beautiful stained glass windows. Other stops include Trophy Point and the parade field where you will see monuments (Battle Monument) and statues of Patton, Eisenhower, MacArthur, Thayer, and Washington – to drop a few names!

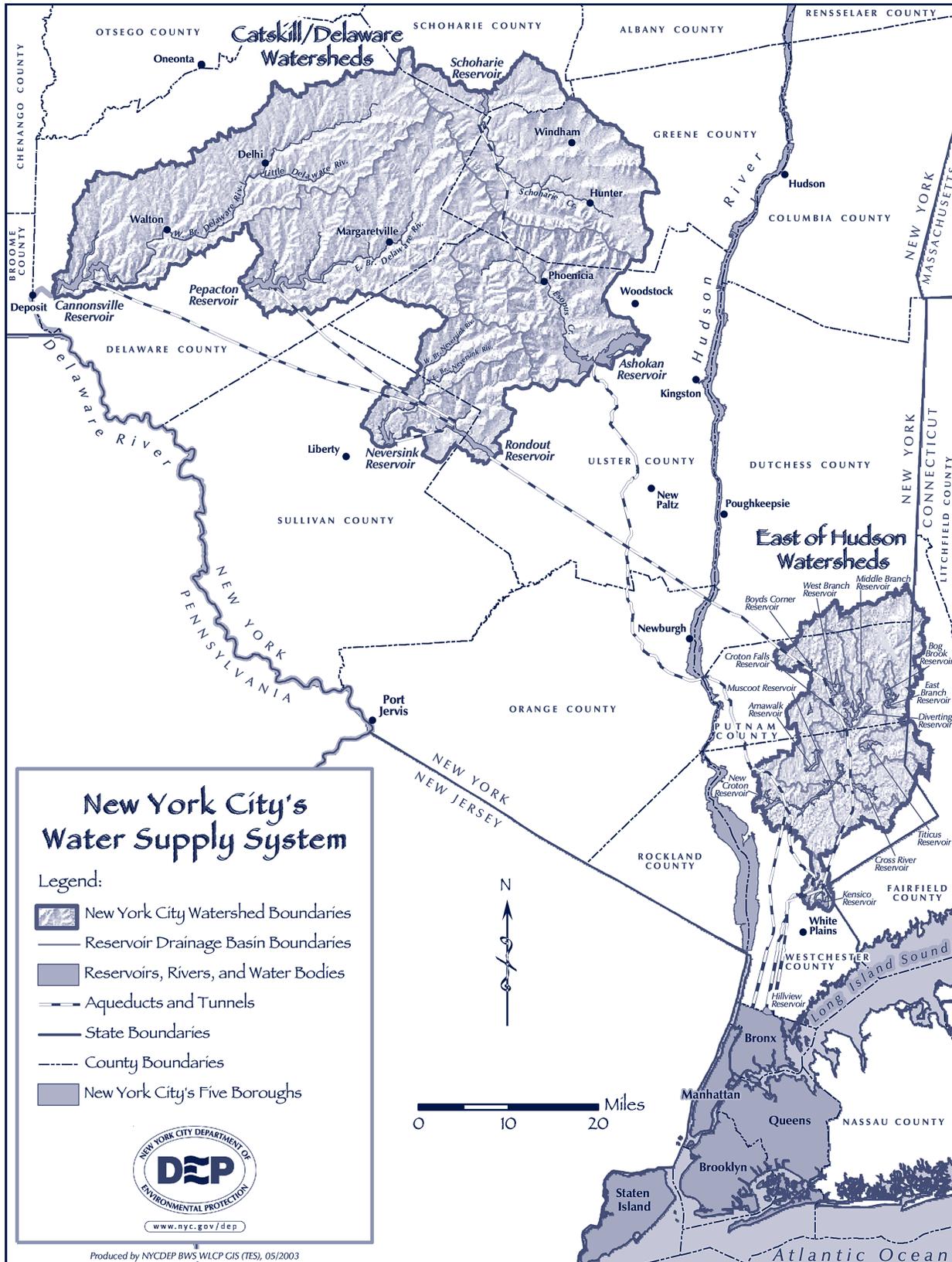
Our guide will talk about cadet life and the history of the Academy including West Point's importance in the Revolutionary War and The Great Chain. The final stop will be a cemetery stopping at grave sites of some of the more famous graduates (Custer, Marcus, White, Goethals and Anderson).

4:30 pm–6:00 pm     **Reception at the Thayer Hotel overlooking the scenic Hudson River**  
Enjoy refreshments while networking.

### Evaluation Criteria

The Watershed Protection and Partnership Council's Technical Program Committee reviewed submitted abstracts for quality, technical merit, interdisciplinary utility, as well as temporal and substantive relevance. All papers presented will be included in the Compendium of Abstracts that will be published for distribution at the conference and to interested parties.

# New York City's Water Supply System Map



“Watershed – An area of land, a bounded hydrologic system; within which all living things are inextricably linked by their common water course and where, as humans settled, simple logic demanded that they become part of a community.”

– John Wesley Powell

# 2010 Watershed Science and Technical Conference

## Pre-Registration Form

September 15–16, 2010 • The Thayer Hotel, West Point, NY

### Instructions

Complete all portions of this form. Print or type information.

Name \_\_\_\_\_

Title \_\_\_\_\_

Employer \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_

E-mail \_\_\_\_\_

Check here if you are a speaker.

Day \_\_\_\_\_

Speaker registration is waived *on* the day of presentation.

### Payment

Cash  Check  Voucher Received by \_\_\_\_\_

### Credit Card:

Visa # \_\_\_\_\_ Exp. Date \_\_\_\_\_

MC # \_\_\_\_\_ Exp. Date \_\_\_\_\_

AMEX # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

*Make all checks payable to NYWEA*

525 Plum Street, Suite 102, Syracuse, NY 13204

Please complete all vouchers before submitting for payment.

Registration form can also be faxed to: 315-422-3851.

Watershed Science and Technical Conference	Registration Costs			Enter Fees
	Student	Member <sup>(1)</sup>	Non-Member <sup>(2)</sup>	
Two Days – Wednesday & Thursday, September 15–16, 2010	\$55.00	\$150.00	\$230.00	
One Day – Wednesday, September 15, 2010	\$30.00	\$100.00	\$180.00	
One Day – Thursday, September 16, 2010	\$30.00	\$100.00	\$180.00	
<b>Special Functions</b>				
Tuesday 3-Hour Sail Aboard Clearwater Sloop		\$40.00	\$40.00	
Wednesday Tour of US Military Academy at West Point		\$25.00	\$25.00	
			<b>Total Registration</b>	<b>\$</b>

Two Days (Wednesday & Thursday)

One Day (Wednesday)

One Day (Thursday)



Includes: Continental Breakfast, Lunch and Breaks on both days

(1) Member rates apply to Members and Conference Sponsors.

(2) Non-member registration includes a one-year Affiliate Membership.

Registrations received after August 27, 2010 will be charged the site-registration fee.

Cancellations must be submitted in writing by August 27, 2010. A 20% service fee will apply to all cancellations received before August 27, 2010; no refunds will be made on registration fees or special events after August 27, 2010.



**New York Water Environment Association, Inc.**

525 Plum Street, Suite 102

Syracuse, NY 13204

***Mark Your Calendars for These Upcoming Meetings!***

**Confined Space Awareness**

August 11, 2010, Ithaca, NY

August 12, 2010, Fishkill, NY

**Elected Officials Wastewater Training –  
Basic and Advanced, Monroe County**

September 28–29, 2010

**WEFTEC**

October 3–6, 2010, New Orleans, LA

**Nitrification/Denitrification**

October 22, 2010, Ballston Spa

October 29, 2010, IBM, East Fishkill

**Elected Officials Wastewater  
Training – Advanced**

December 8, 2010, Sherrill, NY

**83rd Annual Meeting**

February 7–9, 2011

New York City, Marriott Marquis

**Nitrogen Removal**

March 3, 2011, Brewerton, NY

March 16, 2011, Bergen Point, Long Island

April 4–5, 2011, Batavia, NY

**Anaerobic Digestion**

March 17, 2011, Bergen Point, Long Island

April 6, 2011, Little Falls, NY

May 3, 2011, Amherst WWTP

**Troubleshooting O&M**

March 21–24, 2011, Old Forge, NY

**Asset Management**

April 27, 2011, Chenango, NY

May 4, 2011, Frank E. Van Lare,

Rochester, NY

**NYWEA/NEWEA Joint Spring  
Technical Conference & Exhibition**

June 6–8, 2011

Sagamore, Lake George, NY

**For more details, visit the NYWEA website at [nywea.org](http://nywea.org).**