

Gabriella M. Circosta
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70 West Red Oak Lane
White Plains, NY 10604

6th Annual Conference on Watershed Protection and 2nd Annual New York City Watershed Science and Technical Conference

Advancing the Science of Watershed Protection

Holiday Inn
Route 9
Fishkill, New York 12524
September 21-22, 2004

Sponsored by:



NYWEA



NYS Department of
Environmental Conservation



NYS Department of State



TUESDAY SEPTEMBER 21, 2004

- 8:00 am **Registration and Coffee**
- 9:00 am **Welcome/Moderator/Opening Remarks - Keneck Skibinski**, NYWEA President
- 9:15 am **New York State Department of State - Randy A. Daniels**, NYS Secretary of State
- 9:45 am **NYS Department of Environmental Conservation - Sandra Allen**, Division of Water, NYS Department of Environmental Conservation
- 10:15 am **Break**
- 10:45 am **Local Government Panel on Municipal Issues - Living with Watershed Regulations: The East-of-Hudson Municipal Perspective - Town of Somers Supervisor *Mary Beth Murphy*, Town of Patterson Supervisor *Michael Griffin*, Town of Yorktown Supervisor *Linda Cooper***
- 11:45 am **Lunch**
- 1:00 pm **Welcome/Moderator/Opening Remarks - AWWA**
- 1:15 pm **NYC Department of Environmental Protection - Christopher Ward**, Commissioner
- 1:45 pm **NYS Department of Health - Irina Birman, Ph.D.**, Research Scientist/Assistant Professor, Department of Health, School of Public Health, SUNY Albany
- 2:15 pm **The Catskill Watershed Corporation - Alan Rosa**, Executive Director
- 2:45 pm **Break**
- 3:15 pm **Special Croton System Program - NYC Department of Environmental Protection: Overview of the Croton Reservoir System: *Michael A. Principe, Ph.D.***
 - **Why New York City Needs A Filtered Croton Supply:** *Salome Freud, Richard Friedman, Kimberlee Kane, Ph.D., Michael A. Principe, Ph.D., Dave Warne*
 - **Water Quality Effects of Septic Systems and Domestic Water Softeners on Stream Runoff in Three Small Watersheds in the Croton System, New York:** *Myriam Adam, Myron Mitchell, Douglas Burns, James M. Hassett*
 - **Limnological and Kinetic Process Studies for East-of-Hudson Reservoirs: Integration into Water Quality Models:** *Steven Effler, Rakesh K. Gelda, Susan M. O'Donnell*
 - **Effects of Suburban Land Use on Water Quality in the Croton Watershed:** *Douglas Burns, James Hassett, Tomas Vitvar*
 - **Croton System Watershed Management:** *Kimberlee Kane, Ph.D., Michael A. Principe, Ph.D.*
- 5:00 pm **Cocktail Reception** (Hors d'oeuvres and Cash Bar) - Sponsored by Watershed Protection Partnership Council and the NYS Department of State
- 6:00 pm **Dinner & Speaker**

Marty Pottenger: playwright, oral historian, performance artist, director, and carpenter—brings a shortened form of her Obie Award-winning play, *City Water Tunnel #3* to Fishkill, New York. *City Water Tunnel #3*, tells the story, in the voices of workers, of the building of a new aqueduct to add to New York City's water supply. Pottenger tells the story of the planning, building and financing of the largest non-defense public-works project in the Western Hemisphere.

Registration Form—September 21 & 22, 2004

	9/21	9/22	Both Days
Members and Sponsors	<input type="checkbox"/> \$60	<input type="checkbox"/> \$50	<input type="checkbox"/> \$100
Non-Members	<input type="checkbox"/> \$75	<input type="checkbox"/> \$60	<input type="checkbox"/> \$120
Students	<input type="checkbox"/> \$25	<input type="checkbox"/> \$25	<input type="checkbox"/> \$50
Day of Registration (if space is available)	<input type="checkbox"/> \$90	<input type="checkbox"/> \$75	<input type="checkbox"/> \$150

Vendor Booth is \$200 plus registration, please email Dan O'Brien at: d.d.obrien@worldnet.att.net

Name _____

Title _____

Affiliation _____

Address _____

Phone _____

Fax _____

Mail Registrations to: Gabriella M. Circosta
 Dvirka and Bartilucci Consulting Engineers
 70 West Road Oak Lane
 White Plains, NY 10604
 Phone: (914) 697-4725
 Fax: (914) 697-4881
 Email: gcircosta@db-eng.com

Please make check payable to NYWEA Lower Hudson Chapter

Registration must be received by **September 7, 2004**. After this date, you must register on site. Please call Gabriella Circosta for further information at (914) 697-4725.

Lodging Information: Holiday Inn, Fishkill, NY (845) 896-6281

Directions: Interstate 84 to exit 13, north on NYS Route 9

Operator Contact Hours: (Approx.)
 Wastewater Operator up to 6 hours Day 2
 Water Operator up to 5 hours Day 1, and up to 5 hours Day 2
 PE hours up to 1 hour Day 1, and up to 5 hours Day 2

The Lower Hudson Chapter and the Watershed Committee of the New York Water Environment Association, together with the New York Section of the American Water Works Association, The Watershed Protection Partnership Council, and the New York State Department of State, New York State Department of Environmental Conservation, New York State Department of Health, Catskill Watershed Corporation, New York City Department of Environmental Protection, are pleased to sponsor the **6th Annual Conference on Watershed Protection and the 2nd Annual New York City Watershed Science and Technical Conference.**

Again the primary focus of the Conference will be on the New York City Watershed. The Conference will be valuable to elected officials, directors of local public works, buildings, planning and highway departments, land use planners, consulting engineers, regulated industries, attorneys, educators, environmental groups, and interested citizens.

It will include:

- Updates on Federal, State and local programs and policies
- Regulatory aspects of watershed protection
- Watershed planning and management
- Monitoring watershed conditions
- Storm water management
- Scientific presentations on watershed protection
- Wastewater treatment plant operations
- Using Microsoft Excel in the water and wastewater industry

Program Committee

- Michael Battle, NYWEA
- Charles Beckett, NYWEA
- Gabriella Circosta, NYWEA
- Anthony Conetta, NYWEA
- Mark Gander, NYSDEC
- George Gonos, NYSDEC
- William Harding, WPPC, NYS DOS
- Frank Langone, NYWEA
- Thomas Lauro, NYWEA
- Kenneth Markussen, NYSDEC
- Lisa Melville, WPPC, NYS DOS
- Jagdish Mistry, NYWEA
- Daniel O'Brien, NYWEA
- Dianne Philipps, NYWEA
- Marian Potter, AWWA
- John Sansalone, NYWEA

WEDNESDAY | SEPTEMBER 22, 2004

TRACK 1

- 8:00 am **Registration and Coffee**
- 9:00 am **Genotypes of Cryptosporidium Oocysts in New York City Storm Water:** *Kerri Ann Alderisio*, NYC Department of Environmental Protection; *Lihua Xiao* and *Jianlin Jiang*, Centers for Disease Control and Prevention
- 9:30 am **Stream Macroinvertebrate Communities and their Relationships to Dominant Land Covers/Uses and Water Chemistry in the NYC Source Water Areas:** *D.B. Arscott*, *C. Dow*, *J.K. Jackson*, *J.D. Newbold*, *A.K. Aufdenkampe*, *L.A. Kaplan* and *B.W. Sweeney*, Stroud Water Research Center
- 10:00 am **Response of Fish Communities to Restored Geomorphic Stability in Streams of the Catskill Mountains, New York:** *Barry P. Baldigo*, *Anne Gallagher-Ernst*, *Walter Keller*, U.S. Geological Survey; *Dana R. Warren*, *Daniel Davis*, *Sarah J. Miller*, Cornell University; *Thomas Baudanza*, NYC Department of Environmental Protection; *Jake R. Buchanan*, *Doug DeKoskie*, Greene County Soil and Water Conservation District
- 10:30 am **Break/Refreshments**
- 10:45 am **Water Quality in Cattaraugus Creek, Northwestern New York State:** *Gloria Patricia Basto Salgado*, *Carl G. Johnston*, *Thomas Diggins*, Youngstown State University
- 11:15 am **Seasonal Variations in Cryptosporidium and Giardia Concentrations in New York City Watersheds:** *Yves B. Mikol*, *Gerry Pratt*, *Kerri Aldersio*, *Lisa Blancero*, NYC Department of Environmental Protection
- 11:45 am **The Watershed Approach - A Comprehensive Management of Watershed Stressors:** *Ramesh Dwivedy*, *Ph.D., P.E.*, Greeley and Hansen LLC, Philadelphia, PA
- 12:30 pm **Lunch**
- 1:30 pm **Modeling of Turbidity and a Pathogen Surrogate in Kensico Reservoir:** *Todd Echelman*, NYC Department of Environmental Protection
- 2:00 pm **The Village of Brewster as a Model Community in the Watershed:** *Jon A. Degnan*, Village of Brewster Trustee; *Dr. Anne Lee Degnan*, Center For Environmental Research and Conservation, Columbia University; *John E. Folchetti*, *P.E.*, J. Robert Folchetti & Associates, LLC
- 2:30 pm **Stream Base-Flow Chemistry Responses to Hydrogeology and Nonpoint Sources, Pepacton Reservoir Watershed, New York:** *Paul M. Heisig*, *Patrick J. Phillips*, U.S. Geological Survey

TRACK 2

- 9:00 am **Quantifying the Effect of Best Management Practices on Turbidity and Total Suspended Solids in the Batavia Kill:** *Francis Huber* and *James H. Porter*, *Ph.D.*, NYC Department of Environmental Protection
- 9:30 am **Water Supply Issues Related to Climate Change:** *Lorraine L. Janus*, *Ph.D.*, *Kerri A. Alderisio*, *Dale L. Borchert*, *Christopher A. Nadeski*, *Donald C. Pierson*, NYC Department of Environmental Protection

TRACK 2 (Continued)

- 10:00 am **Development of a Stormwater BMP Monitoring Program:** *Tracy Lawrence*, NYC Department of Environmental Protection
- 10:30 am **Break/Refreshments**
- 10:45 am **Nutrient Imbalances in Catskill Forest Soils:** *G.B. Lawrence, D.A. Burns, P.S. Murdoch*, U.S. Geological Survey; *S.W. Bailey, W.C. Shortle, K.T. Smith*, USDA Forest Service; *D.S. Ross*, University of Vermont, Department of Plant and Soil Science
- 11:15 am **Forest Regeneration Issues in the NYC Water Supply Watershed:** *Deborah Layton*, NYC Department of Environmental Protection
- 11:45 am **Comparability of Laboratories Conducting Phosphorus Analyses for Natural Waters in the NYC Reservoir Watershed:** *Michael R. McHale*, U.S. Geological Survey; *Dennis McChesney*, U.S. EPA Region 2
- 12:30 pm **Lunch**
- 1:30 pm **Extended Detention Basin Storm Monitoring:** *Dale L. Borchert, James D. Mayfield, David G. Smith*, NYC Department of Environmental Protection
- 2:00 pm **Early Warning Surveillance Systems for Watersheds, From Streams to Source Water:** *Yves B. Mikol, William Richardson*, NYC Department of Environmental Protection
- 2:30 pm **Multi-Scale Evaluation of the Effects of Soil Calcium Depletion on Forest Health and Stream Water Quality in the Northern Delaware River Basin of Southeastern New York:** *Peter S. Murdoch, M. McHale, G. Lawrence, D. Burns*, U.S. Geological Survey

TRACK 3

- 9:00 am **Field Study of Stormwater Treatment Systems & Catch Basin Inserts for the Removal of Pollutants from Urban Runoff:** *Nazzareno Callipo, Kostantinos Kostarelos, Jennifer Valasquez, Rungrod Jittawattananat*, Polytechnic University; *Kyoung S. Ro*, USDA/ARS Coastal Plains Research Center; *Eakalak Khan, Ph.D., P.E.*, North Dakota State University
- 9:30 am **Pesticides in Surface Water Runoff in Southeastern New York State: Seasonal and Stormflow Effects on Concentrations:** *Patrick J. Philips*, U.S. Geological Survey; *Robert W. Bode*, NYS Department of Environmental Conservation
- 10:00 am **Pesticides in Streams of the Croton River Basin (Southeastern New York): Use of a Pesticide Toxicity Index to Evaluate Relative Toxicity of Stream Water to Aquatic Organisms:** *Karen Riva-Murray, Patrick J. Philips*, U.S. Geological Survey; *Robert W. Bode*, NYS Department of Environmental Conservation
- 10:30 am **Break/Refreshments**
- 10:45 am **Regulatory Upgrade of Clearpool WWTP with Membrane Bioreactor Technology:** *Andric Rodriguez, P.E., Lowell Kachalsky, P.E., O'Brien & Gere*

TRACK 3 (Continued)

- 11:15 am **A Study of Water Quality Benefits Provided by Stormwater BMPs in the Staten Island Bluebelt:** *Dana Gumb, Rob Brauman, Sandeep Mehrotra, Eric Rosenberg, Deeya Deb*, Hazen and Sawyer, PC
- 11:45 am **Improving GWLF Models for NUC Watersheds Using the USDA SWAT Model:** *Elliot M. Schneiderman, Mark S. Zion, Guillermo Mendoza*, NYC Department of Environmental Protection
- 12:30 pm **Lunch**
- 1:30 pm **Practical Issues of Ownership of a Membrane Plant:** *Simon Dukes, Benjamin Antrim, John McArdle*, Koch Membrane Systems, Inc., Wilimington, MA
- 2:00 pm **Development of a Multi-Objective, Community-Based Stream Management Plan: A Case Study of the Stony Clove Creek:** *Mark Vian*, NYC Department of Environmental Protection
- 2:30 pm **Analyis of Payment in Lieu of Taxes Program for the Metropolitan Boston Water Supply:** *Joel A. Zimmerman*, Massachusetts Department of Conservation and Recreation, Division of Water Supply

TRACK 4

- Operator Training**

This is a "Hands on Course" designed to learn the basic tools and techniques for using Microsoft Excel. During the day we will learn Excel by using practical examples specific to the water and wastewater industry.

Microsoft Excel is a powerful data base utility tool for water and wastewater operators. By using Excel, an operator possesses the ability to store and retrieve specific process control data, maintenance records, employee records and more storage quickly and effortlessly.
- 8:30 am **Registration**
- 8:45 am **Break**
- 9:00 am **What is Excel? And what is it good for?**
- 11:45 pm **Creation of Excel Database for Storing Process Control Data**
- 12:30 pm **Lunch**
- 1:30 pm **Creating Queries to Retrieve Data from our Database and Creation of Reports Based on the Queried Information from our Database**
- Cost of the training session includes:
 - Use of a laptop computer
 - Course material
 - Video production of this basic Excel course
 - Free maintenance database program developed in Access