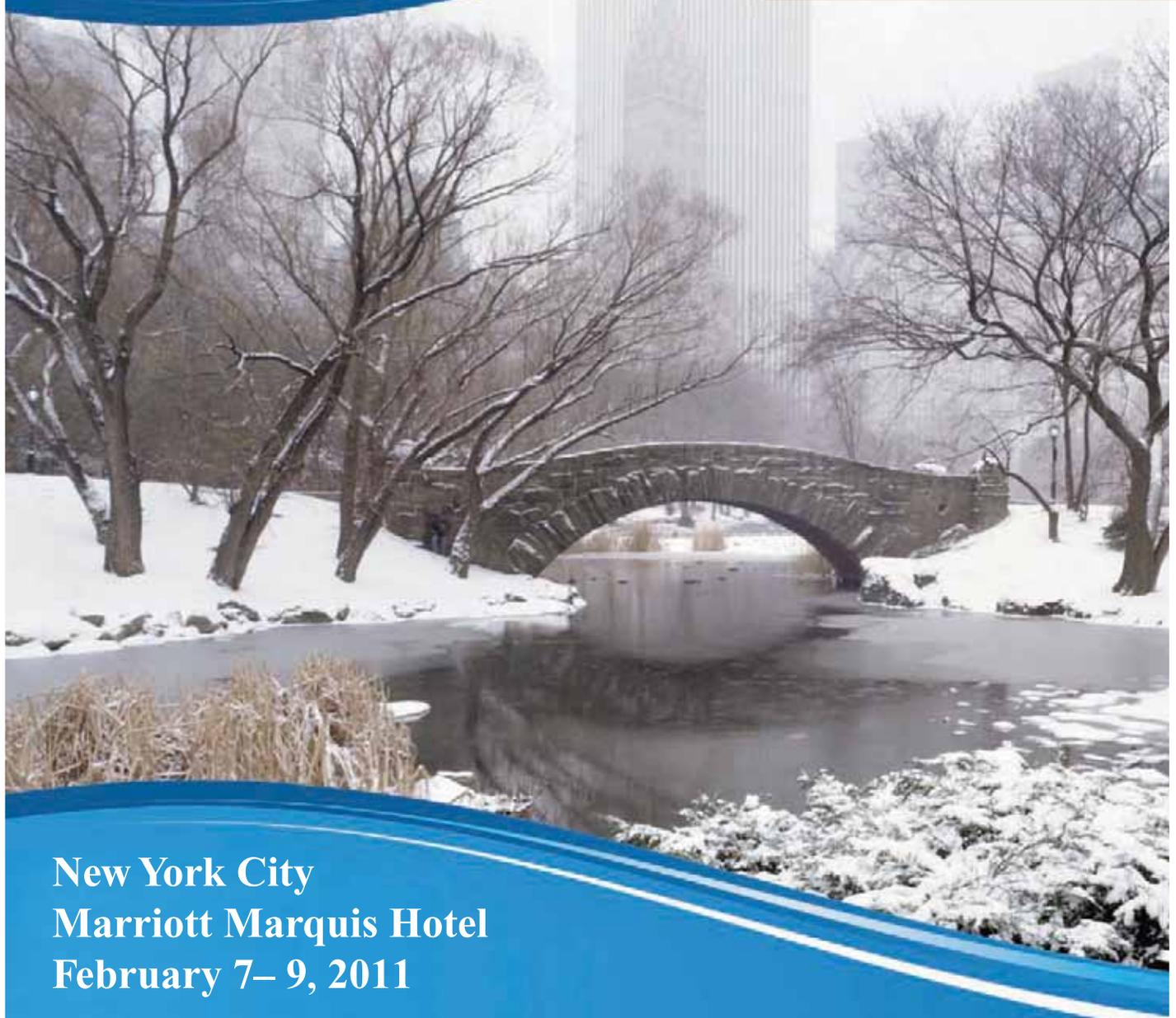




NY Water Environment Association 83rd Annual Meeting Wet Weather Theme



ON-SITE PROGRAM



New York City
Marriott Marquis Hotel
February 7– 9, 2011

www.nywea.org



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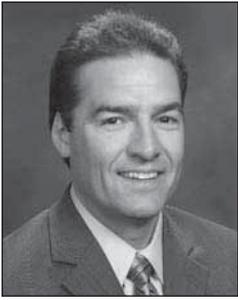
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Attention!
Please pick up
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A Welcome Message from the President

On behalf of the New York Water Environment Association, I would like to welcome you to New York City and to our 83rd Annual Meeting. This Meeting is the shining jewel of the Association's slate of meetings and promises to be bigger and better than ever this year.

With 20 technical sessions offered to you, this year's conference provides exceptional educational opportunities for the water quality professional and is one of the best continuing education venues available in the water profession. The Association is pleased to present technical content that represents the latest and greatest in the industry with a focus on water quality protection and improvement using the most cost effective solutions.

Please be sure to take advantage of meeting new people while you take part in the conference. You'll be surprised at how much you have in common and how much you can share with other water quality professionals in this experience that will prove mutually beneficial.

NYWEA's Annual Meeting also represents the largest annual water quality exhibition in New York State. With more than 175 companies participating, this year's exhibition offers an unparalleled opportunity to view the latest technologies and services for water environment preservation, restoration and sustainability. Manufacturers and representatives who lead in these technologies are here to answer your questions about the equipment and services that best suit your current and future water needs. Please take the time to meet with these professionals and take advantage of the wealth of resources that are showcased.

Be sure to check out the variety of special events planned during this conference. With so much to see and do in our various programs during the day and then in the City at night, we are certain that your time will be well spent and full of excitement over the next few days. Take in a few of the cultural attractions that include inspiring sights and the theater, and sample the excellent cuisine for which New York is known. I encourage you to enjoy fully all of the wonderful opportunities at NYWEA's 83rd Annual Meeting in this great City!

Sincerely,

Thomas J. Whetham, P.E.
NYWEA President

*Attendee list is available online at
www.nywea.org/meetings/AttendeeAM11.pdf*

NYWEA/NEWEA 2011 Joint Spring Technical Conference & Exhibition June 6–8, 2011 at The Sagamore



**NYWEA is proud to host
this joint meeting with
our friends at the
NE Water Environment
Association.**

(See page 75 for more details.)



**Abstract Submittal Deadline
is February 26, 2011.**

Monday, February 7, 2011

Opening General Session *Marquis Ballroom, 9th Floor*

Contact Hours: 1 Water

9:00 am
9:10–10:10 am



Welcome – NYWEA President, Thomas Whetham

Green Infrastructure Panel: Successes and Challenges in Sustainable Wet Weather Management

- Carter H. Strickland, Jr., Deputy Commissioner for Sustainability, NYCEP
- Joanie Mahoney, Onondaga County Executive
- Matt Driscoll, President, NYS Environmental Facilities Corporation
- James Tierney, Assistant Commissioner for Water Resources, NYS Department of Environmental Conservation
- David P. Comerford, General Manager, Buffalo Sewer Authority
- Julie O'Neill, Executive Director, Buffalo Niagara Riverkeeper

10:10 am

Coffee Break: New Member Networking Session with Committee Chairs

10:25 am

Caswell Holloway, Commissioner, NYCEP: NYCEP update

10:50 am

Sandra Ralston, Water Environment Federation Representative

11:05 am

Roger Janson, NEWEA President

11:15 am

New York State Environmental Facilities Corporation State Revolving Fund Update

Timothy Burns, P.E., Director of Engineering & Program Management,

The New York State Environmental Facilities Corporation (EFC) administers the largest State Revolving Fund Programs in the nation. Since 1970, EFC has provided almost \$15.5 billion in low-cost financing and grants for over 2,100 drinking water and sewer infrastructure projects spanning New York. In 2010, the New York Clean Water State Revolving Fund (CWSRF) served more communities, in a “greener” and more cost-effective way, as a result of receiving an unprecedented \$152 million increase in Federal monies. For the first time in our history, CWSRF clients received additional monies to add “green” sustainable components to their clean water projects. - In addition, the Corporation provided \$112 million of grants, in conjunction with traditional CWSRF financings. The New York Drinking Water State Revolving Fund also received a significant increase in federal funding in 2010, disbursing \$89.5 million, a \$52 million increase. Of these monies, \$23.9 million of grants were made available to communities throughout the State. Audiences may also be interested to learn more about the Corporation’s next round of the Green Innovation Grant Program, updates on the American Recovery and Reinvestment Act of 2009, and new initiatives for 2011.

11:45 am

Official Opening of the Exhibit Hall – Ribbon Cutting Ceremony

Session 1

Environmental Science Modeling *Ziegfeld, 4th Floor*

Contact Hours: 2 Engineer 1.5 Wastewater 1 Water

Moderators
1:30 pm

Phil Sears, AKRF, Inc.; Robert Sharp, Manhattan College

Albany Pool CSO LTCP Receiving Water Quality Model

Robert Albright, Mitchell Heineman, CDM

The joint venture of CDM, CHA and MPI developed a receiving water quality model for the Albany Pool CSO LTCP project to evaluate the impacts of bacteria on the water quality of the Hudson River from CSO discharges and other point and non-point sources of bacteria. Several model runs were performed to simulate future conditions associated with pending improvements to the headwaters, tributaries, WWTPs and ultimately CSO discharges. The results will be presented and discussed along with the conclusions derived from each of the water quality model runs.

2:00 pm

Quantify Flow and Grit Deposition Patterns of a CSO Storage Tank Using CFD Model

NYCEP Flushing Bay CSO Facility

Sean Zhang, Eric Lienhard, Anna Walsh, Irene Chu, Hazen and Sawyer, P.C.

A Computation Fluid Dynamics (CFD) model was developed to simulate detailed flow and grit deposition patterns of a CSO Storage Tank. The model included all 15 storage cells as well as diversion lines, screens, gates, influent channels and effluent weirs. CFD is a valuable tool to assess how the proposed structural and operation modifications affect flow and grit deposition patterns. The model was also used to select optimal locations for velocity and depth gauges.

2:30 pm

Coffee Break in Exhibit Hall

3:30 pm

Hydrodynamic and Water Quality Impacts of Marine Construction

Scott Lowe, Manhattan College; Guy Apicella, Frank Brillhante, Jack Vandensype, HDR

The impact of marine construction, such as dredging or cable laying operations, are modeled using hydrodynamic and water quality models in order to assess their environmental impacts. The primary concerns are the plumes of suspended Zcts to be quantified before they will issue permits and may also require the use of management practices to contain the impacts.

4:00 pm | **Modeling Rain-induced Flow Fluctuations at the Ithaca Area Wastewater Treatment Facility**
Nathaniel Carman, City of Ithaca, DPW; Daniel Ramer, Jose Lozano, City of Ithaca
In this paper a simple but effective method is presented that creates a model to accurately estimate the increased inflow due to rain events.

Monday, February 7, 2011 *Marquis Ballroom, 9th Floor*

Session 2 | **Energy Green House Gas/Climate Change**

Contact Hours: 2 Engineer 1.5 Wastewater

Moderators | **Mike Memoli, CDM; John Petito, NYCEP**

1:30 pm | **Increasing Digester Gas Production at the Owls Head WWTP to Augment Power Generation and Minimize Greenhouse Gas Production**

Bill Pfrang, Mladen Novakovic, AECOM; William Grandner, DEP

The Owls Head WWTP is upgrading their CHP facility. Project benefits include reducing GHG production and electricity consumption by 75%, operational cost savings and new opportunities. The improved facilities provide sufficient heat for all requirements. Excess heat will be used to convert to temperature-phased digestion (TPAD) using thermophilic digesters followed by mesophilic. The process increases gas production and reduces digester foaming. This presentation describes the conversion to TPAD including digester mixing and the sludge heating improvements.

2:00 pm | **Calculating the Carbon Footprint of BNR/ENR Plants in the United Kingdom and the United States**

Tom Wilson, TEW Environmental Engineers; Paul Hunt, Brenda Franklin, AECOM, UK; Stephanie Vermande, City of San Jose, CA

This paper compares the relative carbon footprints and costs for the several example waste water treatment BNR facilities, from construction through demolition. The processes investigated were Johannesburg, Modified Ludzack-Ettinger Step BNR, Simple Step Feed and Multi Sludge.

2:30 pm | **Coffee Break in Exhibit Hall**

3:30 pm | **The Lessons of Katrina: Learned and Unlearned**
Douglas Hill, Consulting Engineer

The 2010 report of the New York City Panel on Climate Change (NPCC) is compared with recommendations of the ASCE External Review Panel (ERP) on the lessons of Hurricane Katrina. Paramount among the recommendations of the ERP is the protection of public safety, health and welfare. NPCC focuses on an adaptation program for critical infrastructure. Steps are being taken to better protect New Orleans from catastrophic storm surges. The plan for New York City is to adapt to being flooded.

4:00 pm | **Overcoming Barriers for Generating Electricity from Biogas**
Kathleen O'Connor, NYSERDA

Of the 33 applications submitted to NYSERDA's ADG-to-Electricity Program, only six are from WTPs. This presentation will explore the barriers facing WWTPs interested in generating electricity from AD biogas, describe what NYSERDA is doing to overcome these barriers, and present case studies of several successful projects.

Monday, February 7, 2011

Session 3 | **Public Outreach** *Booth, 5th Floor*

Contact Hours: 0.5 Water

Moderators | **Joseph Corrado, ARCADIS; Beth Petrillo, NYCEP**
1:30 pm | **Biosolids and the Media**
Robert Adamski, Gannett Fleming

From CBS to the *New York Times*, WEF and the NBP have been involved in trying to reach the public. This paper will detail some of the efforts to reach the public and the successes and failures. A number of lessons learned will be given that will assist programs in their current efforts.

2:00 pm | **The Evolution of Public Participation and the Clean Water Project, The Metropolitan District in Hartford, Connecticut**
Timothy Dupuis, Amy Dill, CDM; Julie McLaughlin MDC
 The Hartford Clean Water Project (CWP) was officially born in 2006 with the signing of a Consent Decree with the EPA, and a Consent Order with the CT DEP. However, conception dates back to 2004 with the development of the CSO Long Term Control Plan and the creation of the Citizen's Advisory Committee (CAC). The CAC was formed as a group of 19 community-nominated citizens who volunteered their time to offer feedback and guidance on the approach of the program and CSO control measures under consideration. Over the past six years, as the program evolved, so has the role of public participation. Now as the CWP begins construction, public participation has expanded even further. The CWP has included an Environmental Justice Outreach component, formed neighborhood specific outreach teams to keep residents aware of activities in their areas, and recently developed a coordinated traffic management and notification plan that coordinates with and gathers input from local businesses to minimize traffic interruptions.

2:30 pm | **Coffee Break in Exhibit Hall**

3:30 pm | **Advanced Discussions/Presentations of the Tallman Island Plant Upgrade Project to the Surrounding Community**
Vatche Minassian, ARCADIS
 To meet revised New York State Department of Environmental Conservation (NYSDEC) nitrogen discharge limits, New York City Department of Environmental Protection (NYCEP) initiated a plant upgrade contract (Contract TI-3). The plant upgrade includes the construction of a new 27kV substation to power the plant. The planned location for the substation was the southwest corner of the plant, which is adjacent to the residential neighborhood. During the planning and design phase of the project, DEP and the joint venture of AECOM and ARCADIS presented the plans and the details of the construction impact to the neighborhood. The College Point residents expressed concern over the proximity of the proposed Substation to a residential area. A public participation effort was initiated by NYCEP and multiple public participation meetings were held to identify and address the concerns of the College Point residents during the design and construction phases. Through the combined efforts of ARCADIS/AECOM and NYCEP, the public participation effort was successful and the construction of the 27kV substation was able to proceed with the support of the local residents. This presentation will include the background information, the issues and complications that were raised by the community, and the solutions incorporated into the final design.

Monday, February 7, 2011

Session 4 | **Asset Management** *Belasco/Broadhurst, 5th Floor*

Contact Hours: 1 Engineer* 2 Wastewater 1.5 Water

Moderators | **Janine Witko, Halcrow; Vin Rubino, CH2M HILL**

1:30 pm | **Innovative Data Management for Sewer Rehabilitation***

John LaGorga, Stearns & Wheeler GHD; Steven Devan, Oneida County Sewer District; Karl Schrantz, Shumaker Engineering

The purpose of this paper is to present an innovative data management approach that saves time and money related to data storage and retrieval as well as analyzing and using the data to plan for sewer rehabilitation. However, there are challenges such as the storage of and the access to a voluminous quantity of data. Using this innovative data organization and management approach limits these challenges and can in fact ultimately save time and money.

2:00 pm | **Efficient Utility Management through Cost Optimization***

William David Williams, Halcrow, Inc.

While all utilities, public and private, strive to be efficient in these challenging economic times, it is of particular importance to utilize limited resources in the most efficient and effective manner. This involves not only proper prioritization of projects, based on risk, regulatory compliance, and other factors; it also involves the optimization of costs. Several case studies will be provided where capital costs for major water system projects have been reduced by over 40% and operational costs by 5%–18%.

2:30 pm | **Coffee Break in Exhibit Hall**

3:30 pm | **Why Adopting Asset Management Is Really about Organizational Change**
Claire Baldwin, Seth Garrison, Meredith McElmurry, CDM
Utilities can overcome challenges to new initiatives like Asset Management by employing organizational development and Change Management (CM) principals. The WRF 4173 research identified six general CM “themes” that were critical factors in nearly every AM implementation. These themes were then compared with the widely accepted steps in the CM process outlined by the work of Dr. John Kotter from Harvard. Once coupled with Kotter’s steps, a collection of proven change management tools was selected to help utilities address the common barriers that often encumber AM implementations.

4:00 pm | **Financial Planning for Sustainable Infrastructure**
Amy Santos, Red Oak Consulting, a division of Malcolm Pirnie, Inc.
A long term financial planning model can help water and wastewater utility leaders to effectively generate sufficient revenues to operate and maintain their system and cover the costs of needed capital improvements. This session will present an overview of financial planning using cost-of-service principals to achieve full cost pricing and plan for long term financial sustainability. A real-time demonstration of an interactive financial planning model will be incorporated.

Tuesday, February 8, 2011

Session 5 | **Manufacturers Forum I** *Booth, 5th Floor*

Contact Hours: 2 Engineer 2 Wastewater 1 Water

Moderators | **Peter Pastore, GA Fleet; Robert Bendlin, Bendlin, Inc.**

9:00 am | **Hybrid: An Energy Saving Compressor, Designed for WWTP**
Thomas McCurdy, Aerzen USA Corporation

Power for aeration blowers account for at least 60% of the electrical costs in a typical WWTP. Several technologies have been introduced to the market (turbo, compressors) to provide more efficient alternatives to PD blowers. Each has their place. Aerzen recently introduced hybrid technology as a more economical, high-efficiency alternative specific to the varying aeration needs of a wastewater plant.

9:30 am | **SRT Control Enhancement for SBR Operation**
Mark Gehring, ITT Water & Wastewater, Sanitaire Products

Operational process control is critical to the success of wastewater treatment, and is becoming increasingly critical due to requirements of meeting stringent effluent quality as well as demands for energy efficiency. Automated control of the sludge inventory offers utility operators the capability of meeting increasingly stringent effluent with minimal operator attention. This presentation will include a background on automated sludge age control as well as the features and benefits associated with this process control feature on SBR systems.

10:00 am | **Coffee Break in Exhibit Hall**

11:00 am | **Efficiencies of Torque Flow and Recessed Impeller Pumps**
Andreas Schmidt, Egger Touro Pumps North America, Inc.

Vortex pumps have been around since the 1950s and have proven their capabilities but they are also commonly known for their low efficiencies raising a concern in the increasingly debated carbon foot print and power consumption of waste water treatment plants.

11:30 am | **Effectively Using Permanganate for Odor Control and Enhanced Dewaterability in Wastewater Treatment**
Richard Wells, Carus Corporation

Odors are the most common problems in municipal wastewater plants. Discontent and complaints from nearby neighbors or passersby can result. Odors are usually associated with sulfides (especially hydrogen sulfide and mercaptans) but can also be caused by amines, aldehydes, ketones and other organic compounds.

Tuesday, February 8, 2011

Session 6

Energy Management/Efficiency *Ziegfeld, 4th Floor*

Developed by the Young Professionals Committee

Contact Hours: 2 Engineer 2 Wastewater 1 Water

Moderators

9:00 am

Lauren Livermore, CDM; Alissa Diminich, GHD

Energy Conservation and Efficiency in Wastewater Systems

Silvia Marpicati, Malcolm Pirnie, Inc.

This presentation will provide attendees with the steps required to develop a successful energy management program at a wastewater treatment facility and will describe the specific energy efficiency measures that can be readily implemented to reduce energy use, making energy efficiency a consideration in the design, operation, maintenance, replacement and upgrade of facility equipment. Case studies will be used to provide examples of successful projects.

9:30 am

Anaerobic Digestion and Cogeneration: Improving Energy Efficiency and Reducing Biosolids

Kelly Saikkonen, John Donovan, CDM; Clayton "Mac" Richardson, LAWPCA

The Lewiston Auburn Water Pollution Control Authority (LAWPCA) in Lewiston, Maine, is in the final design phase of an anaerobic digestion/cogeneration facility that will 1) Reduce plant wide purchased power by one-half or 1.7 million kWh per year, which is equivalent to \$205,000 per year at current energy prices. A portion of the electricity generated by the new cogeneration engines will be used to power the new anaerobic digestion facility and the remainder will be used to offset power currently purchased from the utility grid; 2) Reduce annual biosolids management costs by \$600,000 or nearly 40%; 3) Produce a safe, reliable and economical source of biosolids for beneficial reuse; 4) Reduce 2,800 metric tons of CO₂ equivalents per year, or 80% less than the existing biosolids management practice.

10:00 am

Coffee Break in Exhibit Hall

11:00 am

Case Study of Energy Efficient, Sustainable Improvements and Technologies

Implemented at Wastewater Treatment Plants

Brian Sibiga, Wendel

This paper will provide real life examples of four wastewater entities in New York State that have developed economically sustainable equipment retrofit and operational improvement programs that reduced their impact on the environment while also saving money. Examples of equipment and operational upgrades include pumps and motors upgrades, automated control systems, photovoltaics, solids handling upgrades, SCADA controls, aeration diffuser upgrades, dissolved oxygen control, aeration blower upgrades, digester gas recovery, and other site specific process modifications. Return on investment data as well as various implementation options will be discussed.

11:30 am

High Speed Turbo Blowers and NYSERDA Program Overview

Jerry Connolly, Siewert Equipment

Wastewater scum can be a significant source of problems at wastewater treatment plants. This presentation reviews the makeup of scum and discusses options for minimizing the problems with scum.

Tuesday, February 8, 2011

Session 7

Biosolids *Odets, 4th Floor*

Contact Hours: 2 Engineer 1.5 Wastewater

Moderators

9:00 am

Jeff LeBlanc, WeCare Organics, LLC.; Mike Memoli, CDM; Beth Petrillo, NYCEP

Characterization of Percolation Rates Following Biosolids Amendment

to Support Short Rotation Willow Crops on a Landfill

Douglas Daley, SUNY College Environmental Science & Forestry

Organic soil amendments are used to improve moisture retention, increase percolation and provide nutrients for plants. A project at the Solvay waste beds in Camillus, New York, investigated changes in the water budget that result from modifying Solvay process waste with two sources of wastewater biosolids and planting with several varieties of willow to create a willow-based evapotranspiration landfill cover system. Twenty wicking pan lysimeters were used to measure the flux of water in four soil and vegetation treatments beginning in July 2008. Percolation rates are controlled by amended soil characteristics, precipitation, antecedent moisture and evapotranspiration. Statistical analysis has shown no significant difference in percolation rates between four types of soil amendments, although willow growth was observed to be more robust on one of four vegetated plots.

9:30 am | **Turn Biosolids Programs a Brighter Shade of Green ... with Zero Capital Investment**
Noel Lyons, Lynn Lucas, Bob Broom, McGill Environmental
Private-sector regional composting offers a cost-effective, flexible option to every biosolids program, regardless of generation volumes or level of treatment. For zero capital investment, any municipality can choose composting for biosolids end use when collaborating with an industrial organics recycler who will bear all design, construction, and operating costs in exchange for a suitable parcel of land – as little as five acres for a 50,000 TPY facility. With this collaboration comes a level of flexibility for the municipality not possible with dedicated facilities. Large, industrial compost manufacturers can easily accommodate fluctuations in generation volumes and biosolids quality. Learn how to make an informed decision regarding the suitability of private-sector composting for biosolids. Understand industrial composting as a waste management technology, and understand the relationship of composting to anaerobic digestion.

10:00 am | **Coffee Break in Exhibit Hall**

11:00 am | **City of Glens Falls: Solids Handling Upgrades and Grease Handling Systems Reduce Incinerator Fuel Oil Usage Under Phased Energy Performance Contract**
Vincent Apa, CDM
The presentation will focus on solids handling upgrades and grease handling systems installed at the City of Glens Falls wastewater treatment plant (WWTP). Under a phased energy performance contract, these measures have reduced fuel oil costs, reduced electricity costs and increased revenue. The upgrades included sludge pumps, rehabilitated sludge blending tanks and mixing systems, belt filter presses and cake pumps, incinerator control upgrades, a grease concentrating system and a concentrated grease system.

11:30 am | **Energy from Residuals and Biosolids: Gasification Technology in North America**
Mohammad Abu-Orf, AECOM Water
Energy recovery from residuals and biosolids is one option to offset energy usage and reduce carbon footprint in public and private utilities treating domestic wastewater. Producing syngas as a result of gasification is one method of recovering energy from dried biosolids. The pressure on land application programs and the difficulties in obtaining incineration permits pave the way for adapting this energy recovery and disposition method.

Tuesday, February 8, 2011

Session 8 | **Operations – Changes and Optimization** *Belasco/Broadhurst, 5th Floor*

Contact Hours: 2 Engineer 2 Wastewater 0.5 Water

Moderators | **Richard Pope, Malcolm Pirnie, Inc.; John Petito, NYCEP**

9:00 am | **Biological Nutrient Removal at Hunts Point WPCP**

Milagros Soriano, NYC DEP

The New York City Nitrogen Consent Order requires the city to construct Biological Nutrient Removal (BNR) upgrades to all plants discharging into the East River. The Hunts Point WPCP has been upgraded to and is among the first New York City plants to operate in full scale BNR mode. Throughout this time, the facility has experienced major operational changes with respect to new equipment, plant performance and process impacts associated with the new mode of operation.

9:30 am | **Putting Operators in Control of Secondary Clarifier Operation**

Paul Dombrowski, Woodard & Curran, Inc.

Successful operation of any activated sludge process depends on understanding the capacity of secondary clarifiers. This paper presents an approach to assist operators in determining the capacity of activated sludge secondary clarifiers using a straightforward graphical approach based on state point analysis. Analysis of performance at two facilities in Connecticut are presented documenting the validity of the graphical approach.

10:00 am | **Coffee Break in Exhibit Hall**

11:00 am | **Effective Bench, Pilot, and Full-scale Testing: Getting the Answers You Need**

Lori Lehnen, Alan Weston, CRA Infrastructure & Engineering, Inc.

Treatment plant operational and design changes need to be based on standard, defensible practices. Bench, pilot, and full-scale testing are low-cost, effective tools for supporting process changes and minimizing design risks. This presentation will present methods for developing testing protocols to ensure that testing results are appropriate and valid. Case studies will be presented throughout.

11:30 am | **All You Wanted to Know about Private Service Laterals (and then some!)**
Jaime Davidson, Wendel Companies; Laurie Chase, Blue Heron Engineering Services, Ltd.;
Jane McLamarrah, MWH Americas, Inc.; Bruce Cohen, CSL Services, Inc.
The WEF Collection Systems Committee's Private Property Virtual Library project team recently presented the workshop "Private Service Laterals: What To Do, When, Why, How and with What?" at WEFTEC.10®. The workshop focused on sewer backflows (surcharging) and backups, successful lateral repair and replacement mechanisms, and legal issues. This presentation will include highlights from the workshop and a summary of resources recently made available on www.wef.org/privateproperty.

Tuesday, February 8, 2011

Session 9 | **CSO/SSO – Building, Maintaining and What's Next** *Wilder, 4th Floor*

Contact Hours: 2 Engineer 1 Wastewater

Moderators | **Elliot Sachs, Boswell Engineering; Tim Wales, Barton & Loguidice**

9:00 am | **Cleaning of CSO Facilities Using Various Flushing Devices:**

A Case Study for the Midland Avenue Regional Treatment Facility, Onondaga County, New York
Donald Geisser, John C. Perriello, ARCADIS; Nicholas Capozza, Onondaga County Department of Water Environment Protection

This presentation will include a detailed overview of the following CSO flushing devices – vacuum flushing chambers, flushing gates, tipping buckets – during their first two years of operation at the Midland Avenue CSO Regional Treatment Facility located in Onondaga County, New York. Lessons learned will also be presented.

9:30 am | **Curved Microtunneling for CSO Control**

James Sullivan, Verya Nasri, AECOM; Alan Pelletier, Hartford Metropolitan District

This paper presents the design and construction challenges of the Homestead Avenue Interceptor Extension (HAIE) project in downtown Hartford, Connecticut. This project is the first planned curved microtunnel in the US. The 72-inch CSO relief sewer will remove sanitary flow from an existing drainage conduit and provide CSO control up to the one-year storm. The HAIE is being installed using a combination of pressurized face microtunneling, jack and bore and other trenchless techniques.

10:00 am | **Coffee Break in Exhibit Hall**

11:00 am | **Overpeck Valley Relief Sewer**

Kevin Wynn, Hatch Mott MacDonald

The Overpeck Valley Relief Sewer is a \$69.5 million project that consists of the construction of 5.28 miles of interceptor sewer that varies in diameter from 42' to 96' through one of the most densely populated areas in the north-east United States. The project was performed through the use of several different types of construction techniques. The project conditions and alignment required the use of marine construction for a major river crossing, microtunneling and conventional open cut construction techniques. Some highlights include crossings via microtunneling of the New Jersey Turnpike, US Route 46 near the approaches to the George Washington Bridge, a railroad/intermodal terminal and a regional electrical generating facility.

11:30 am | **Upcoming Wet-Weather Requirements for Municipal POTWs and Collection Systems**

Libby Ford, Nixon Peabody LLP

Since the Clinton Administration, the EPA has been increasing its precipitation-related requirements for POTW-related wet weather discharges. It is again trying to address the issues through regulating "blending" and going "up the pipe" to try to force better management of the tributary sewers. This presentation will cover the history of the recent regulatory efforts, subsequent technical and policy progress supported by WEF and NACWA and feedback from the recent EPA listening session on this topic.

Tuesday, February 8, 2011

Session 10

University Forum *Wilder, 4th Floor*

Contact Hours: 2 Engineer (*Must attend all eight papers to get credit*) 1 Water (*Noted below*)

Moderators
1:20 pm

Richard Carbonaro, Manhattan College; Stefan Grimberg, Clarkson University
Overcoming Challenges to Recovering Phosphorus from Anaerobically Digested Dairy Manure
Matthew Huchzermeier, Wendong Tao, SUNY-ESF

Recovering phosphorus from wastewater is used increasingly as a treatment technology for removing nutrients from various waste streams which are known to cause negative environmental impacts. Struvite, a precipitate consisting of $MgNH_4PO_4 \cdot 6H_2O$, can be crystallized, separated from wastewater, and applied as a solid fertilizer for various land-use applications. Adjusting pH as well as magnesium and calcium content in multiple bench-scale experiments indicated the optimum characteristics for struvite precipitation from anaerobically digested liquid dairy manure.

1:40 pm

Monitoring of Long Island Sound Water Quality from the LISCO Offshore Platform 0.25 Water
Soe Hlaing, Amir Ibrahim, Ioannis Ioannou, Alberto Tonizzo, City College of New York

Scientifically comprehensive, Long Island Sound Coastal Observational platform (LISCO) near Northport, New York, has been established to support the validation of ocean color satellites and monitoring of regional water-quality. LISCO is equipped with both multispectral (SeaPRISM) and hyperspectral (HyperSAS) radiometers for ocean color measurements. LISCO's combined multi and hyper spectral measurements suite substantially expands the observational capabilities for the continuous monitoring and assessment of the quality of water and better characterization of measured spectra in coastal waters.

2:00 pm

Green Roofs: How Do They Affect Water Quality? 0.25 Water

George Segré, Aimee Clinkhammer, Syracuse Center of Excellence;
Dimitar Todorov, Utica College, Syracuse University; Mario Montesdeoca, Syracuse University

Current research on green roofs has largely focused on their inherent thermal properties and role for stormwater mitigation, while the topic of water quality has been largely ignored. For this study weekly samples were collected of wet deposition, bulk deposition and green roof runoff in order to study how a green influences water quality. The results show seasonal variation in the chemistry of roof drainage.

2:20 pm

The Dynamic Anaerobic Reactor and Integrated Energy System (DARIES) Model

Andrew Brouwer, Stefan Grimberg, Susan Powers, Clarkson University

Anaerobic digestion is a biological process used to treat farm manure and other organic wastes. It facilitates manure and nutrient management, results in odor and pathogen reduction, and produces biogas. The Dynamic Anaerobic Reactor and Integrated Energy System (DARIES) Model has been developed as a dynamic, systems approach to modeling an anaerobic digester system, that is, an anaerobic digester in conjunction with a combined heat-and-power system. DARIES will allow for the evaluation and optimization of design and operational parameters.

2:40 pm

Coffee Break in Exhibit Hall

3:20 pm

A Comparison of Competitive Adsorption of NOM and SOCs on Carbon Nanotubes and Activated Carbon 0.25 Water

A.J. Brooks, James E. Kilduff, Rensselaer Polytechnic Institute

Carbon nanotubes have been studied in depth as to their sorptive ability to remove priority pollutants from water and wastewater. This study looked at comparing the uptake of atrazine and trichloroethylene (TCE) by carbon nanotubes (CNT) and select water treatment activated carbons. Our studies have shown that CNTs were promising sorbents for high concentrations levels, however, further work needs to be done to characterize and better understand their interactions in a water treatment conditions.

3:40 pm

CARP Model Refinements for PCBs in the Hudson River Estuary

Christopher Fanelli, Gloria Gutierrez, Kevin Farley, Manhattan College; Nicholas Kim, HydroQual Inc.

The purpose of this study was to refine the CARP model to provide more detailed model grid resolution in the mainstem Hudson, and to evaluate model performance using more recent field data. Further work is currently being conducted to examine the effects of hydrodynamics and sediment transport on the long term fate of PCBs in the Hudson River Estuary.

- 4:00 pm** | **Development of Source-Separation Latrine Technology for Sustainable Human Waste Management and Water Contamination Control in Rural Ghana** 0.25 Water
Suraj Cheema, Clayton Dahlman, Lili Jiang, Claire Wang, Columbia University
 To avoid the long waits and unsanitary conditions of the current latrine facilities in the village Obodan (Ghana), community members constructed their own unlined pit latrines, posing risks to groundwater contamination and local pollution. A pilot source-separated composting latrine has been implemented to alleviate the demands on existing infrastructure and reduce water contamination through a sustainable model of reusing human waste as fertilizer. Analyzing water quality and headspace gas levels will indicate the pilot's success.
- 4:20 pm** | **PACFISH/INFISH Biological Opinion Effectiveness Monitoring Program**
Michael Guethle, Clarkson University
 The population of steelhead (*Oncorhynchus mykiss*) and bull trout (*Salvelinus confluentus*) in the Pacific Northwest is in decline and many species of fish have been recently placed on the endangered species list. Logging, grazing, fire and land development on National Forest Service (NFS) and Bureau of Land Management (BLM) property could be leading to the destruction of trout habitats. In order to determine the effect of human activities and natural disasters (i.e., fire) on the quality of fish habitats, a series of physical, chemical, biological and species-specific related data are to be collected over several decades during various seasons. The project is currently in its second decade of operation. Preliminary results indicate that chemical, physical and biological data for reference wilderness locations have comparatively better fish habitat than riparian locations that have been recently burned. Physical data also shows that fish habitat greatly decreases in areas that have been consistently grazed by cattle and areas that have been developed near roads. Collected data will be correlated to fish habitat quality and results of this investigation will be presented.
- University Forum Poster Session**
1. **Field-scale Leaching of Heavy Metals from Preservative-treated Wood**
Shun Shi, SUNY ESF
Co-authors: Wendong Tao, Chuck N. Kroll, SUNY ESF
 2. **Nitrogen Removal by Partial Nitrification, Anammox and Denitrification in Constructed Wetlands**
Yuling He, SUNY ESF
Co-authors: Wendong Tao, James Hassett, SUNY ESF; Walid Shayya, Morrisville State College
 3. **Quantitative Structure Property Relationships (QSPR) to Predict Removal of EDC/PPCPs in Water Treatment Processes**
Alison Kennicutt, Rensselaer Polytechnic Institute
Co-authors: James (Chip) Kilduff, Lisa Morkowchuk, Curt Breneman, Rensselaer Polytechnic Institute
 4. **Evaluation of a Green Courtyard: Stormwater Reduction and Treatment in the Aluminum Industry**
Darshanamala Dissanayake, Clarkson University
Co-authors: Darshanamala Dissanayake, Victoria H. Boyd, Thomas M. Holsen, Stefan J. Grimberg, Clarkson University
 5. **Farm Waste-to-Energy: A Sustainable Solution for Small-Scale Farms**
Ian McCrum, Clarkson University
Co-authors: Shannon Gibson, Stefan Grimberg, Clarkson University
 6. **Engineered Wet Meadow Installation: Environmental Enhancement of Nassau County Stormwater Basin #232 – The Garden City Bird Sanctuary**
Robert Alvey, USEPA
Co-authors: Kathleen C. Alve, Cornell University; Sara Kullins, Mepham High School
 7. **Impact of Rainfall Variability on the Safe Yield of the NYC Drinking Water System**
Robert Wasp (student) and Scott Lowe, Department of Civil and Environmental Engineering
Manhattan College

Tuesday, February 8, 2011

Session 11

Manufacturers Forum II *Booth, 5th Floor*

Contact Hours: 2 Engineer 2 Wastewater 0.5 Water

Moderators
1:30 pm

Wendi Richards, Siewert Equipment; Randy Ott, Blue Heron Construction

ThermAer: The Perfect Choice for Solids Digestion

Robert Wooldridge, Thermal Process Systems

The TPS ThermAer ATAD process aerobically degrades organic matter to produce Class 'A' biosolids. No outside heat source is utilized to raise the temperature to 130°–160°F. Typically, TS reduction is 50% and VS is 60+%. The process is very energy efficient and produces solids that are high in nitrogen and phosphorus that can be utilized for many 'green' purposes. Use of the excess heat produced in the process is being considered for many upcoming projects.

2:00 pm

Use of an Online Nitrate Analyzer and Supplemental Carbon Addition Equals Additional Nitrogen Removal and Increased Nitrogen Credit Sales for a Long Island Sound Water Pollution Control Facility
Gary Johnson, Environmental Operating Solutions; Peter Stallings, Town of Stratford, CT WPCA
Stratford, Connecticut, Case Study

This case study will compare and evaluate the performance of an addition of a supplemental carbon source to enhance nitrogen removal at the Stratford, CT, POTW over a ten-month operating period. The case study will specifically examine overall total nitrogen removal efficiency for 24-hour operating conditions by utilizing online continuous nitrate monitoring data coupled with the addition of supplemental carbon.

2:30 pm

Coffee Break in Exhibit Hall

3:30 pm

Ballasted Biological Treatment Meets ENR Requirements

Andy Bishop, Cambridge Water Technology

The key to BioMag's effectiveness is its marked ability to increase secondary settling and thickening rates, by using magnetite as a ballast to increase the specific gravity of biological floc. With a specific gravity of 5.2 and a strong affinity for biological solids, the ballast substantially increases the settling rate of the biomass. Increasing the specific gravity and settling rate of the biological floc provides the opportunity to increase the mixed liquor concentration and wet weather treatment while still maintaining adequate settling and thickening in the secondary clarifiers.

4:00 pm

What Color Is Your System?

Matthew Madolora, Thioguard Premier Magnesia LLC (formerly Premier Chemicals LLC)

H₂S-related wastewater corrosion effects are hitting utility pocketbooks faster than ever before and questions remain whether existing H₂S mitigation strategies are also adequately addressing corrosion of wastewater infrastructure. Wide-spread use of surface pH testing is only now becoming more prevalent across the wastewater landscape. Corrosion is a growing crisis and surface pH "mapping" can be utilized as a quick and inexpensive tool to assess corrosion conditions within a wastewater collection and treatment system.

Tuesday, February 8

Session 12

Watershed Planning & Green CSO Initiatives *Belasco/Broadhurst, 5th Floor*

Contact Hours: 1 Engineer* 0.5 Wastewater 0.5 Water

Moderators
1:30 pm

Lauren Livermore, CDM; Donna Hager, AECOM

Philadelphia's Green City Clean Waters Program: Integrating Green and Grey Infrastructure for Coordination Between City Agencies

Mark Maimone, CDM

In order to meet the multiple goals of its Combined Sewer Overflow Long Term Control Plan and MS4 obligations, the city of Philadelphia is undertaking an effort to implement its control plan in a sustainable way. This presentation will discuss the primary challenges and solutions that the city has taken to address them. The overarching challenge is essentially that a Green Approach is less a design problem and more a policy issue. Ultimately the Long Term Control Plan integrates the activities of several city agencies with PWD, creating a sustainable program that will result in significantly more benefits that meet social, economic and environmental objectives.

2:00 pm | **Onondaga County's Green CSO Program: Lessons Learned from the First Year of Progress**
Brian Marengo, Matthew Marko, Rita Fordiani, CH2M HILL;
The Onondaga County Department of Water Environment Protection is implementing green infrastructure on a system-wide level to confirm performance metrics as part of a system-wide build out of green infrastructure to meet the requirements of its recently amended consent judgement. The paper will provide a CSO program update identifying progress made on the green infrastructure plan components with an emphasis on lessons learned from the start up of one of the first CSO programs nationally to include green infrastructure as a significant part of the control program.

2:30 pm | **Coffee Break in Exhibit Hall**

3:30 pm | **Monitoring and Assessment of Stormwater Management Practices in the New York City Watershed***
Scott Lowe, Michael Principe, HDR Engineering; Matthew Giannetta, Andreea Oncioiu, NYCEP
This project involves performing an assessment of the effectiveness of stormwater management practices (SMPs) that have been installed in the New York City Watershed from late 1997 to spring 2008. Over 30 SMPs (specifically ponds) will be monitored over a four year period. Discussion will include the methodology used to screen the SMPs for conformance with design standards, the development of the monitoring program and results found to date.

4:00 pm | **Water Water Everywhere, But No Where to Go***
Robert Curti, Thomas S. Dixon, John R. Dening, Hatch Mott MacDonald
This paper describes how a project to relieve frequent flooding in an residential area of the city of Elizabeth, New Jersey, overcame limited options, coordination with a local university, NJDEP DLUR application for FHA Individual Permit, Freshwater Wetlands Permit, use of a Deed Restricted Property, and difficult construction to install a storm sewer system: A collection system, storage conduit, outlet control structure, pumping station and discharge structure, to reduce the frequent flooding in the area.

Tuesday, February 8, 2011

Session 13 | **Operations – Workplace Safety** *Odets, 4th Floor*

Contact Hours: 2 Wastewater

Moderators | **Geoffrey Baldwin, CDM; Sandy Lizlovs, NYSDEC**

1:30 pm | **Workplace Violence: Prevention and Aftermath**

(1 hour) | **Nellie Brown, Cornell University**

People facing the potential for incidents of violence in the workplace need to understand the nature of the problem, techniques to defuse confrontation and recovery planning. The workshop stresses strategies to prevent violence by keeping the situation on a verbal level, along with strategies for intervention. The NYS Workplace Violence Prevention Law and OSHA guidelines on workplace violence will be discussed.

2:30 pm | **Coffee Break in Exhibit Hall**

3:30 pm | **Shiftwork, Long Hours of Work and Occupational Stress**
(1 hour) | **Nellie Brown, Cornell University**
This workshop deals with the effects of shift work and hours of work on the worker and the workplace with suggestions made as to solutions which can minimize adverse effects. Is there an ability to tolerate shift work? Can we predict who is best suited for shift work? Methods of hazard reduction and control to lessen the impact of shift work are covered along with personal strategies to reduce its stress.

Tuesday, February 8, 2011

Session 14 | **Water Pollution Control – Design and Start Up** *Ziegfeld, 4th Floor*

Contact Hours: 2 Engineer 2 Wastewater

Moderators | **Richard Pope, Malcolm Pirnie, Inc.; Clifford Pomerantz, Greeley & Hansen, LLC**

1:30 pm | **Design and Start-up of MBR for Leachate Treatment**

| **Jurek Patoczka, Hatch Mott MacDonald**

A leachate from a solid waste landfill had been historically treated by a local POTW. Due to a significant increase in leachate flow and ammonia concentration, it was determined that the POTW will not be capable of accepting the leachate. Treatability tests and alternatives evaluation resulted in the selection of an MBR for leachate pretreatment. The MBR plant has been in successful operation for several months with full nitrification and significant denitrification being achieved.

2:00 pm | **“Ahead-of-Schedule and Within Budget”– Who Would Have Thought: The Start-up of a Full Scale Oxidation Ditch at Port Washington to Meet the Requirements of the Long Island Sound Study**
Roger Owens, Joseph H. Marturano, Olga Mubarak-Jaramillo, Dvirka and Bartilucci Consulting Engineers; Robert J. Breslin, Port Washington Water Pollution Control District
 The Port Washington Water Pollution Control District owned and operated a wastewater treatment plant originally constructed in 1951 utilizing the trickling filter biological treatment process with a design flow of 4 MGD. Treated effluent is discharged into Manhasset Bay. The plant was last upgraded in 1987–1989 to achieve secondary treatment levels. The LISS study recommended that to improve the conditions in the Sound, the total nitrogen loading contributed by POWWTPs on the North Shore of Long Island and the Upper East River New York City plants must be reduced below a 1990 baseline discharge level. To meet NYSDEC/LISS requirements, the District/D&B Engineers evaluated seven treatment alternatives. Ultimately the District/D&B selected activated sludge Oxidation Ditch technology. The upgrade was completed in 2010, three years before the required SPDES permit date. The Oxidation Ditch was selected based on operation/energy savings at low DO levels with simultaneous nitrification/denitrification. A UV-disinfection system replaced the existing NaOCl-disinfection system. Presentation will include the system performance test results and accomplishments of the partnering approach between owner, contractor, engineer and the trials and tribulations of a new technology at the plant (Grade III to IVA). The project was completed ahead of schedule and below the original bid amount of \$22.4 million.

2:30 pm | **Coffee Break in Exhibit Hall**

3:30 pm | **Achieving Enhanced Nutrient Removal through Carbon and Oxygen Engineering**
Mark Greene, Sami Nasr, O’Brien & Gere
 The performance of two WWTPs that are attaining ENR will be discussed. Process design decisions were supported with pilot testing and full-scale demonstrations with the intent to maximize the treatment capacity of existing equipment and upgrade these facilities with minimal capital investment. One plant utilized a post start-up optimization study to achieve ENR performance within a BNR design. The other used a full-scale process optimization and bench-scale testing to achieve ENR performance.

4:00 pm | **Design, Construction, and Startup of the Wards Island BNR Demonstration Projects (SHARON® and E Battery)**
Gabriel Giles, Matthew Regan, Paul Storella, AECOM; Keith Beckmann, Allen Deur, NYC DEP
 The completion of the Wards Island Biological Nitrogen Removal (BNR) Demonstration Projects is a significant milestone in the New York City Department of Environmental Protection’s (NYC DEP) BNR program. Under this program the NYC DEP will reduce the nitrogen Total Maximum Daily Load from four of its Upper East River wastewater treatment plants (WWTPs) by 58.5% by the year 2017. This presentation will focus on the design, construction and start-up of the Wards Island SHARON® Facility for separate centrate treatment – the first in the United States and the largest worldwide – and the Full-Scale Step-Feed BNR Demonstration Facility at E Battery.

Wednesday, February 9, 2011

Session 15 | **CSO/SSO – Maximizing Facilities and Performance** *O’Neill, 4th Floor*

Contact Hours: 2 Engineer 2 Wastewater 0.5 Water

Moderators | **Wendi Richards, Siewert Equipment; Elliot Sachs, Boswell Engineering**

9:00 am | **Pushing the Limits of Wet Weather Disinfection**

John LaGorga, Randy Cameron, Stearns & Wheler GHD; John McGrath, City of Oswego

The purpose of this paper is to present data from a disinfection pilot that compared the effectiveness of peracetic acid (PAA) to sodium hypochlorite for the inactivation of fecal *coliform* in untreated combined sewage. High doses of the disinfectants were used with short contact times. The results show that significant reductions in fecal *coliform* can be achieved at short contact times (one- and two-minutes) with high doses of disinfectant and intense mixing.

9:30 am | **Getting More from Less: How Westchester County Increased Treatment of Wet Weather Flow without Constructing Additional Facilities**

Frederick Kincheloe, R Srinivasaraghavan, Savin Engineers, PC; Thomas Lauro, Westchester County Department of Environmental Facilities

The Yonkers Joint Treatment Plant was originally designed for a capacity of 92 MGD. In compliance with combined sewer overflow (CSO) objectives to maximize treatment of wet weather flow, Westchester County modified how the collection system was operated and additional flow was directed to the YJTP for treatment. Average monthly flows reached over 120 MGD – well over the rated capacity of the plant. This session will present the means and methods for evaluating process capacity of major treatment trains and to negotiate revised permit limits for the YJTP.

10:00 am | **Coffee Break**

10:30 am | **Sequencing Batch Reactors Demonstrate Flexibility to Cope with Extreme Peak Flows**
Daniel Slagle, Nichols-Slagle Engineering, Inc.; Jeff Devine, Vice President, Process Systems Group, Ashbrook Simon-Hartley
The Leetsdale Borough Municipal Authority in Allegheny County, Pennsylvania, was under a Consent Order and Agreement from the Pennsylvania Department of Environmental Protection to upgrade their existing 50-year-old wastewater treatment plant to treat and capture 85% of the sewer/storm flow. The Authority's engineer selected a four-tank flow-paced sequencing batch reactor treatment system to handle an average daily flow of 0.95 MGD and a peak wet weather flow of 10 MGD.

11:00 am | **Conceptual Value Engineering Study Yields Significant Cost Savings on Interceptor Relief Project**
Don Walker, Todd Warrix, AECOM; James Parrott, Metropolitan Sewer District of Greater Cincinnati
The East Branch of the Muddy Creek interceptor runs along the north bank of the Ohio River, west of the downtown Cincinnati area. The interceptor serves a combined sewer system, and 11 outfalls along the interceptor currently discharge approximately 460 million gallons of CSO in a typical year. This presentation describes a value engineering exercise to identify alternatives for sewer separation and interceptor relief work that resulted in \$50 million in savings and reduced CSO volumes by 96%.

Wednesday, February 9, 2011

Session 16 | **Collection Systems and Inflow/Infiltration** *Ziegfeld, 4th Floor*

Contact Hours: 2 Engineer 2 Wastewater 0.5 Water

Moderators | **Jeffrey Butler, Gannett Fleming; Ron Delo, Dvirka & Bartilucci Consulting Engineers**

9:00 am | **Basin Size Is the Most Effective Variable an I/I Engineer Can Control**
Patrick Stevens, ADS Environmental Services

This presentation proposes that there is a hierarchy of decision making that should be followed to maximize the effectiveness of I/I studies and to minimize the overall cost of SSES field work and, ultimately, the cost of rehabilitating the system. The premise is offered that controlling the size of the mini-basins used during the flow study is the first step in this hierarchy and minimizes the effect of the other variables.

9:30 am | **Old Pipe/Renewed Pipe: How New Technology Enhanced the Rehabilitation of a 141-year-old Sewer**
Charles Wilson, Frank Ayotte, Hazen and Sawyer; Edward Duggan, Boston Water and Sewer Commission

The Boston Water and Sewer Commission owns and maintains wastewater, drainage and combined sewer systems that includes some of the oldest infrastructure in the country. One project that will help reduce annual CSOs to Boston Harbor includes the rehabilitation of a section of the Dorchester Brook Sewer, one of its oldest and largest sewers. Spiral-wound lining, a relatively new technology to the United States, provides a unique solution that maximizes system hydraulics and solves structural problems.

10:00 am | **Coffee Break**

10:30 am | **Westchester County's Flow Reduction Strategy to Reduce Nitrogen in the Long Island Sound**
Jim Morrissey, Frederick Kincheloe, Savin Engineers, PC; Thomas Lauro, Westchester County Department of Environmental Facilities; John Hsu, Westchester County Department of Public Works
Having completed successful SSES and SSO programs in the 1990s and 2000s, the opportunity to further remove inflow and infiltration (I/I) in the collection system became increasingly difficult. In order to identify locations of excessive I/I, a comprehensive flow monitoring and assessment program was established including a system of over 80 flow meters and a dozen rain gauges with telemetry and internet connectivity. Paramount to a successful program was the capability to accurately measure flow and ensure all meters were operational throughout the study period. This was done through a unique internet based monitoring and QA/QC program.

11:00 am | **A Systematic Approach for the Selection of Corrosion Protection Systems for Large Sewer Tunnels**
Saeid Rashidi, VERA Nasri, AECOM
This discussion presents a systematic approach for the selection of an optimum corrosion protection system in large sewer tunnels based on project-specific criteria. The implementation of this approach in the design of tunnel lining for two major projects is demonstrated, namely the construction of a deep conveyance and storage tunnel by the city of Indianapolis and the construction of gravity sewer tunnels by the city and county of Honolulu.

Wednesday, February 9, 2011

Session 17

Sustainability *Odets, 4th Floor*

Contact Hours: 2 Engineer 1 Water

Moderators
9:00 am

Vincent Rubino, CH2M HILL; Janine Witko, Halcrow

Integrated Planning across Organizational Boundaries: Crafting a City of the Future

David Specto, Paul Brown, CDM; Alek Canaan, Nesadurai Centre

This presentation will demonstrate how we can utilize a simulation model to plan the development of an urban form that combines grey and green infrastructure and quantifies value consistent with policy goals. Such a model is being developed as part of the planning for a new 150,000 community in Singapore. With respect to Green Infrastructure, we will address the benefits of the model in providing integrated planning across sectors, setting key performance indicators for implementation, identifying the value of the projects and maximizing the value of grey-green infrastructure integration.

9:30 am

DEP Greenhouse Gas and Energy Reduction Initiatives to Meet PlaNYC Goals

Jane Atkinson, Jeremy Marine, AECOM; Anthony Fiore, Sergej Mahnovski, New York City Department of Environmental Protection

To meet PlaNYC goals by 2017, thirty-four of DEP's major facilities are being evaluated for opportunities to reduce GHG emissions through new energy reduction strategies. A desktop analysis that focused on major energy consumers was performed to identify project opportunities for GHG reduction/energy conservation. Pre-feasibility studies were performed and conceptual cost estimates were developed to determine which projects would provide the greatest GHG reduction per dollar. The findings of this study will be presented alongside DEP's current GHG reduction projects to demonstrate the path forward to meeting PlaNYC's goals.

10:00 am

Coffee Break

10:30 am

Sustainable Design Elements of the NYCTA Grand Avenue Bus Garage

Gary Rozmus, Gannett Fleming

The award-winning NYCTA Grand Avenue bus garage was designed as a state-of-the-art energy efficient building housing a bus depot and central maintenance facility for 200 buses. Sustainable design was incorporated throughout the facility in accordance with the 2004 New York State Executive Order 111 "Green and Clean" buildings and vehicles guidelines. For example, the facility bus washing system was designed to maximize the use of recycled water and minimize the use of cleaning agents. A wide variety of green strategies and systems were incorporated into the design to protect the environment, conserve energy and ultimately create a high-performance building.

11:00 am

Green Infrastructure in New York City

Carter Strickland, New York City Department of Environmental Protection

The DEP developed the New York City Green Infrastructure Plan to reduce combined sewer overflows by 40 percent over the next 20 years, designed and installed green infrastructure pilots, won support within the City to take the pilot projects to scale, and negotiated the plan with state and federal regulators.

Wednesday, February 9, 2011

Session 18

Utility Management *Wilder, 4th Floor*

Contact Hours: 1 Engineer* 1 Wastewater 2 Water

Moderators
9:00 am

Tim Wales, Barton & Loguidice; Peter Radosta, Koester & Associates Inc.

Compliance with New York State Public Authorities Reform Act

Charles C. Martorana, Hiscock & Barclay, LLP

From Suffolk to Niagara Counties, local and state public authorities and public corporations own and/or operate water and wastewater facilities. All of these public entities are regulated by the Public Authorities Accountability Act (PAAA), as recently amended by the Public Authorities Reform Act (PARA). This presentation will offer a practical guide for compliance with PARA's new governance, regular reporting, Public Authority Reporting Regulations (PARIS) and website requirements, among other new requirements.

9:30 am

Phishing for Pharmaceuticals

Drew Smith, Monroe County Pure Waters

Monroe County has emerged as a leader in pharmaceutical collections. The County coordinated efforts with NYSDEC and DOH to allow for the first sanctioned collection in NYS. They also developed a program where other municipalities could implement a program efficiently. This talk will update the current standing of the program, where collections are happening and rumblings in Albany on the legislative side.

10:00 am | **Coffee Break**

10:30 am | **CMOM: Will It Be Mandated?***
Steve Fangmann, Dvirka & Bartilucci Consulting Engineers
 The USEPA is currently considering issuing rules to regulate Sanitary Sewer Overflows and Peak Flow treatment. The issues being addressed in any rule may once again delay it. This presentation will briefly discuss the issues and the need for Asset Management and Capacity Assurance, Management, Operation and Maintenance Program (CMOM) program. The presentation will also outline CMOM requirements, and CMOM and different asset management approaches through case studies.

11:00 am | **Lessons from an HDD Project Awarded for \$ 1.74 Million with 90 Days to Complete That Took In Excess of \$6 Million and More Than 1,000 Days***
Jey Jeyapalan, Civic Enterprises, LLC
 The presenter was retained on November 14, 2007, to conduct an independent investigation on the causes that led to the delay and cost overruns on a 36-inch HDD project by the law firm representing the driller after the driller had been at the site for longer than 1,000 days and had spent over \$6 million by their estimate. Loss of drilling fluids, caving of roads, settlement of houses, buildings, and other calamities were the outcome that the driller and the engineer faced. The lives of local residents were disrupted for many months. There were many lessons learned and these will be shared with the attendees in the hope similar problems can be avoided in the future. Presenter will also share how disputes concluded.

Wednesday, February 9, 2011

Session 19 | **Water Pollution Control – Advanced Treatment** *Ziegfeld, 4th Floor*

Contact Hours: 2 Engineer 2 Wastewater

Moderators | **Clifford Pomerantz, Greeley & Hansen, LLC; Richard Pope, Malcolm Pirnie, Inc.**

1:30 pm | **Using a Local Industrial Wasterwater as a Denite C Source**

Tom Wilson, TEW Environmental Engineers; Kenneth A. Bradstreet, AECOM; Terry Smith, Department of Public Utilities, Town of Wallingford, CT; Steve Kim, Genesis Environmental Technologies, Inc., Dresher, PA

A very successful, low cost and novel hybrid nitrogen removal process recently has been implemented at the 8MGD Wallingford Wastewater Treatment Plant. It consists of a suspended growth anoxic reactor coupled to an RBC system. Results have been similar to an MLE process, with effluent total nitrogen between 6.0 mg/l and 8.0 mg/l. This presentation focuses on the viability of using the discharge from a local industry to provide carbon for denitrification.

2:00 pm | **Assessing the Impacts of Recalcitrant Dissolved Organic Nitrogen in Wastewater Effluent Limits**

Jose C. Porro, Edward Becker, Dominic DiSalvo, Joseph A. Husband, Malcolm Pirnie, Inc.

In addition to economic implications of including recalcitrant dissolved organic nitrogen in TN limits, there are global environmental implications. Through a process and life cycle assessment modeling approach, results from this study will help shed some light as to the potential overall environmental impacts rDON can have from a technology perspective and may prompt regulators to take a closer look at the actual impact rDON may have in the water environment.

2:30 pm | **Coffee Break**

3:00 pm | **Stabilizing Nitrifier Bioaugmentation at the Hunts Point Wastewater Treatment Plant**

Dimitri Katehis, Melissa Motyl, CH2M HILL; Rob Sharp, Manhattan College/Hazen & Sawyer; Allen Deur, New York City Department of Environmental Protection

Using the recent successful experiences with nitrifier bioaugmentation at the Hunts Point Wastewater Treatment Plant, the operating requirements for successful bioaugmentation will be outlined to practitioners and researchers. The plant was able to consistently attain effluent nitrogen levels of less than 6 mgN/L, while operating at aerobic SRTs of less than 2.5 days (MLSS ~1000 mg/L) at nominal hydraulic retention times of approximately 4.5 hours, with no chemical addition (supplemental alkalinity or carbon).

3:30 pm

A Rocky Problem

Jay Lovelass, Greeley and Hansen; Sheldon Lipke, Bridget McKenna, John Bolcar, Passaic Valley Sewerage Commissioners

The Passaic Valley Sewerage Commissioners (PVSC) operate a 330 MGD regional wastewater treatment plant located in Newark, New Jersey. The plant's headworks consist of six concrete channels with climber type bar screens and longitudinal grit chambers. Grit is collected using chain and flight grit collectors and a vertical grit bucket elevator discharging to a grit classifier. Although the concrete channels and structures are in excellent condition, the grit removal equipment wears out quickly and requires extensive maintenance. PVSC, together with Greeley and Hansen, started a rehabilitation program designed to resolve the headworks problems using sophisticated modeling techniques and by installing new heavy duty equipment. Despite prolonged efforts, system performance did not meet expectations. PVSC looked to the mining industry for new solutions. In the mining industry, mineral slurries are pumped hundreds of miles. Based on the mining industry recommendations, an improved grit pumping system was installed and tested. The improved system operated exactly as designed and without clogging for months.

Wednesday, February 9, 2011

Session 20

Green Technology *O'Neill, 4th Floor*

Contact Hours: 1 Engineer* 1 Wastewater 1 Water

Moderators
1:30 pm

Phil Sears, AKRF, Inc.; Katie Hoek, Hazen & Sawyer
Stormwater Source Control Strategies for New York City*

Julie Stein, Esther Siskind, John McLaughlin, New York City Department of Environmental Protection; Tiffany Witwer, Hazen and Sawyer

Water quality in New York Harbor is currently impacted by sewage and stormwater overflows that can occur during intense rainfall events from the sewer system tributary to the City's 14 water pollution control plants. The New York City Environmental Protection (NYCEP) is piloting innovative and long-term sustainable measures for providing storm water source control. The outcomes of these pilots will provide NYCEP with information concerning the implementation of these storm management systems, as well as strategies for their watershed-level implementation.

2:00 pm

Developing Green Streets Prototypes to Reduce Urban Runoff and Combined Sewer Overflows*

Daniel Wible, Andrew Potts, Brian Marengo, CH2M HILL

This presentation will provide an overview of the planning, design and implementation approaches applied in Onondaga County (Syracuse), NY, Cincinnati, OH, Pittsburgh, PA, and Philadelphia, PA, to manage stormwater runoff within the urban public right-of-way (ROW) in the form of "Green Streets." These approaches incorporated various "green infrastructure" measures such as porous pavements, infiltration systems, tree trenches, bioretention, curb extensions, and pavement removal which effectively compliment "grey infrastructure" by reducing CSOs and saving conveyance/treatment capacity.

2:30 pm

Coffee Break

3:00 pm

Overview of the Green Innovation Grant Program

Suzanna R. Randall, New York State Environmental Facilities Corporation

The New York State Environmental Facility Corporation will present the 2009 "Green Innovation Grant Program," a first-in-the-nation initiative to fund green projects. Wet weather infrastructure, renewable energy/energy efficiency, water efficiency and innovative technology projects were provided up to 90 percent grants from the 2009 American Recovery and Reinvestment Act (ARRA). Under this award-winning program, 49 GIGP projects received \$44.4 million through New York's CW and DW State Revolving Fund. NYSEFC has launched and will also discuss the 2010 GIGP2.

3:30 pm

Green Infrastructure for Sustainable Stormwater

Jim Remlin, Jannine McColgan, AKRF, Inc.

Observing a decline in the water quality of streams and localized flooding, the design of stormwater management systems has become an integral aspect of site design. Green infrastructure approach incorporates the basic design principles of impervious cover reduction and groundwater recharge. Design methods including the use of permeable pavers, rain gardens, and stormwater planters will be discussed through case studies and design examples in order to explain this new stormwater approach and the environmental benefits.

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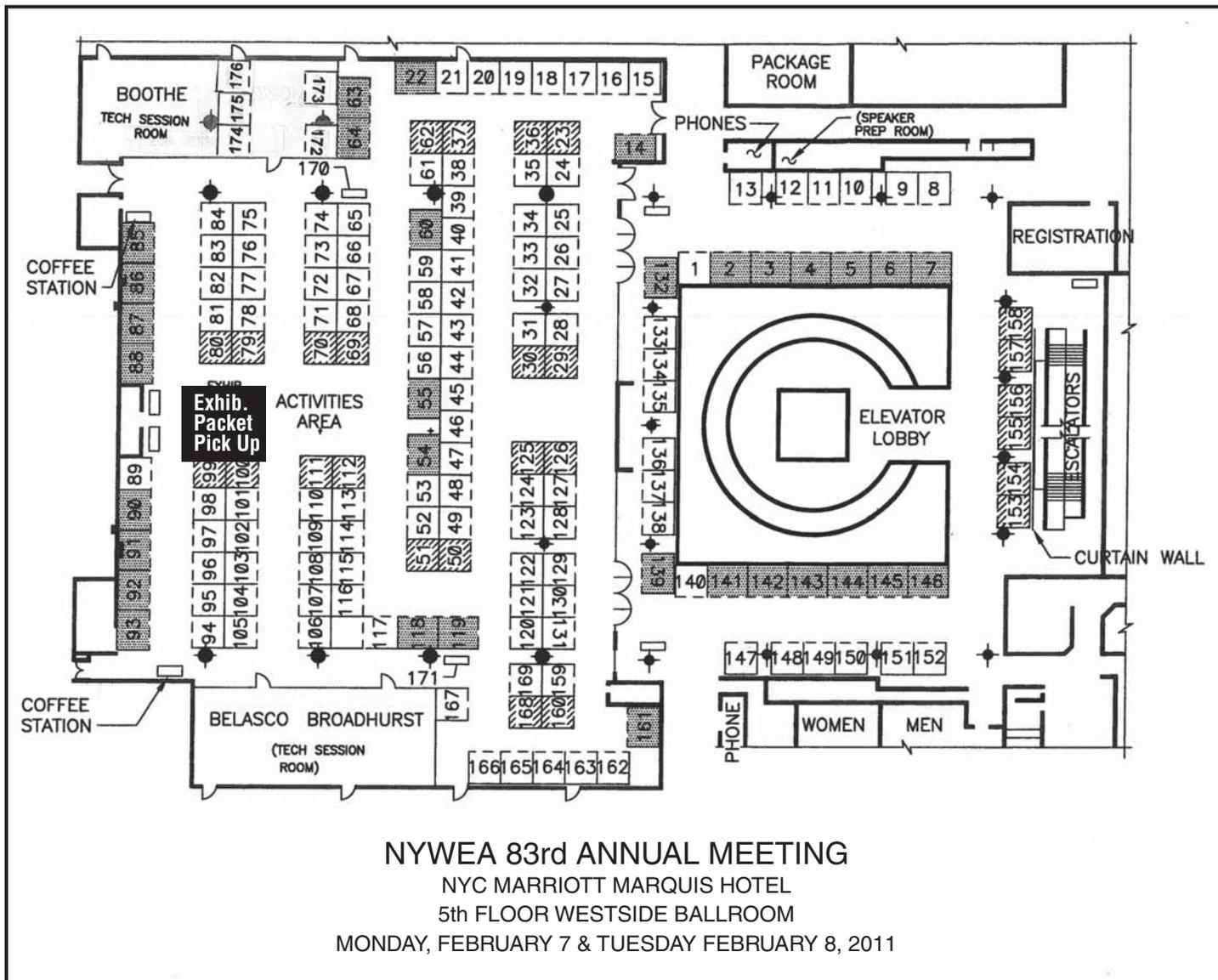
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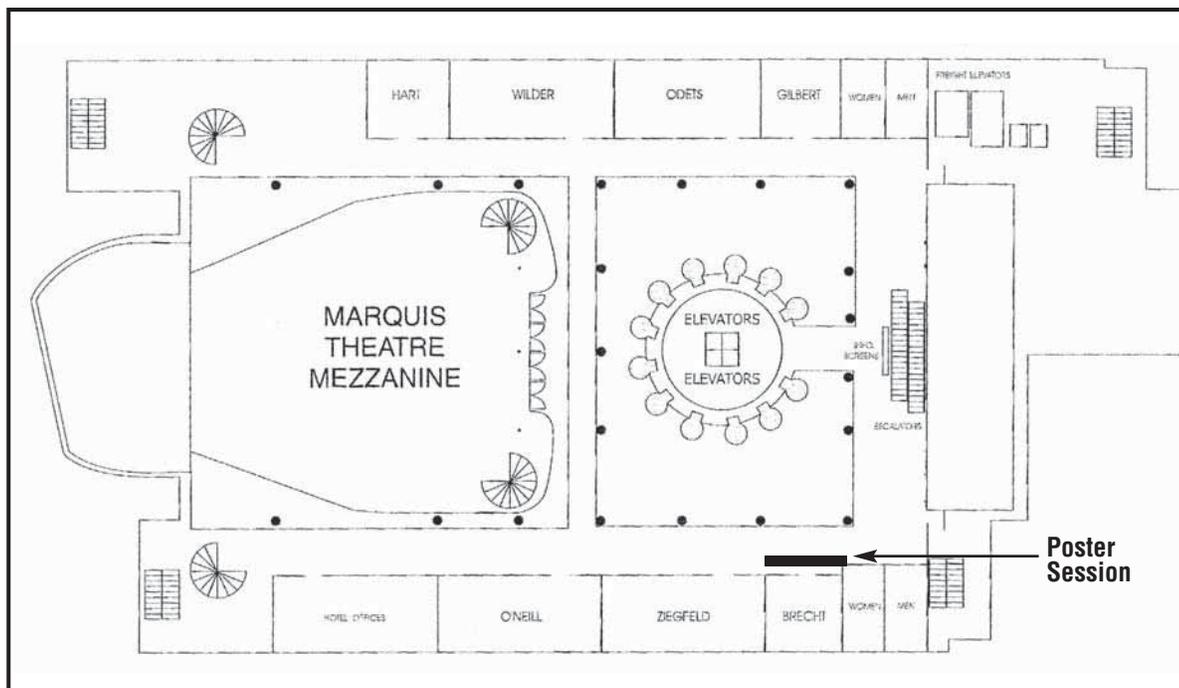
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Exhibit Hall – Exhibitor Floor Plans



4th Floor Floor Plan



83rd Annual Meeting Exhibitors

Exhibit Hours: Monday, February 7, 2011: 10:00 am–5:30 pm;

Ribbon Cutting, 11:45 am; Exhibitor's Reception, 4:30 pm–5:30 pm

Tuesday, February 8, 2011: 8:30 am–4:00 pm

Location: Westside Ballroom, 5th Floor



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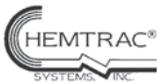
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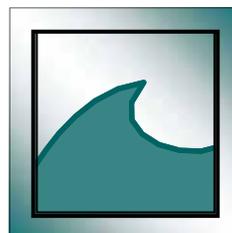
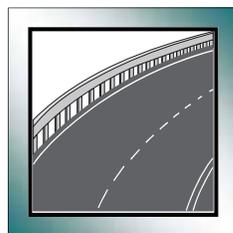
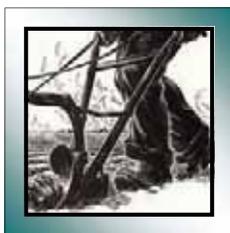
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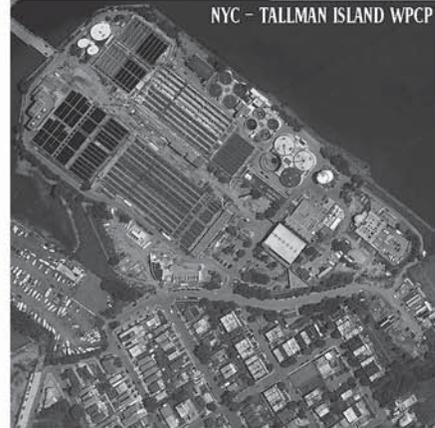
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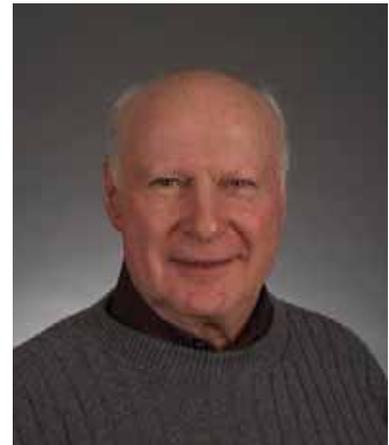
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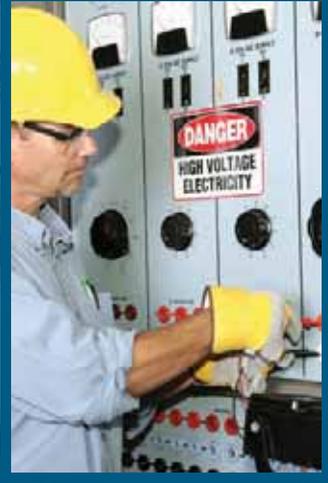
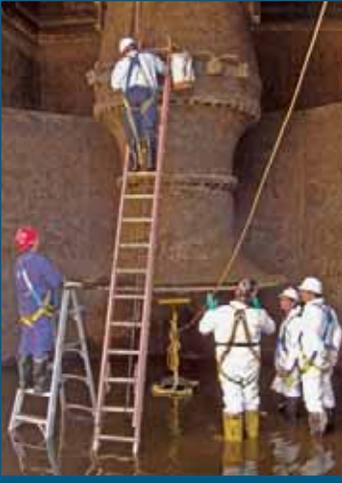


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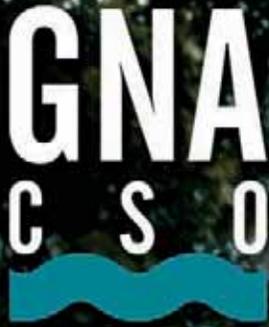
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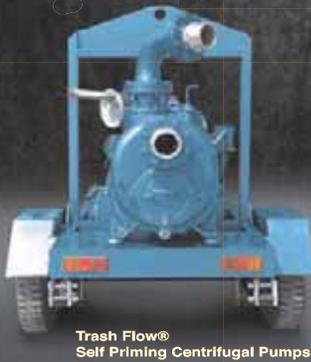
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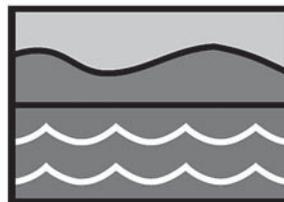
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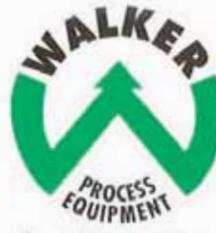
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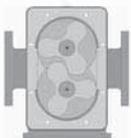
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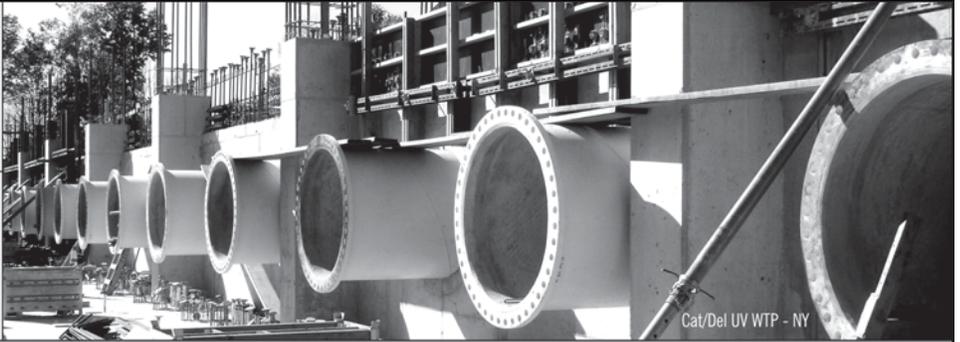


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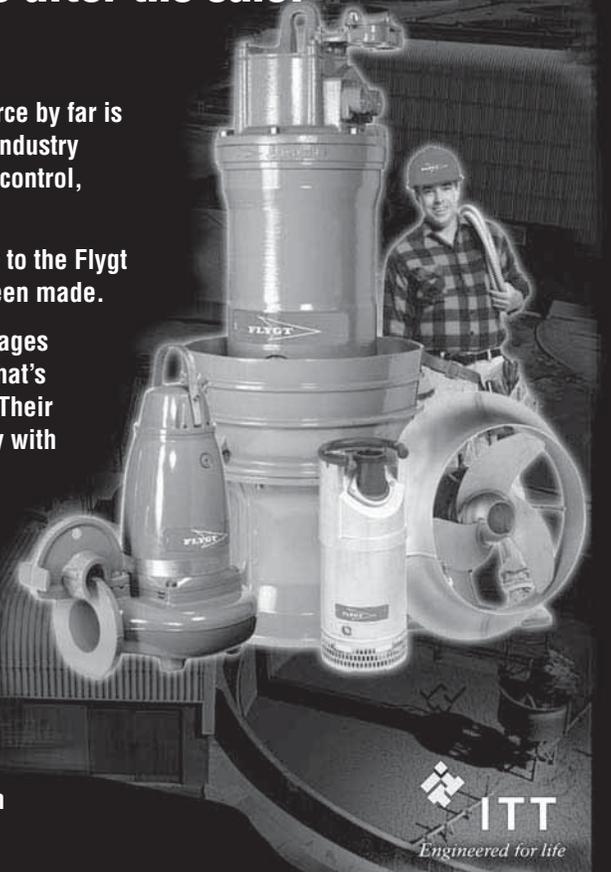
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NYWEA Scholarship Fund—Keeping the Momentum Going Closing the Gap to the \$1 Million Goal

If you would like to make a pledge to this important program, contact Patricia Cerro-Reehil at (315) 422-7811.



At far right, Scholarship Committee Co-Chairs, Al Lopez and Diane Hammerman, express their gratitude as they are presented with a "large" check for the Scholarship Fund. Also shown, far left to right: Fotios Papamichael, NYWEA President Thomas Whetham, and Sixth Annual Scholarship Fundraising Committee Event Chair, Bob Butterworth.

Investment in the future of our water industry is vital. The number of students graduating from college today with science or engineering degrees and interested in actively pursuing a career in the environmental field is something we need to cultivate to properly address our industry needs for years to come. While technology continues to advance, it is critical that we attract the best and the brightest to our field to supply the professionals necessary to continue to research and improve water quality. The future of our environment is dependent upon our success.

It is essential that we keep the scholarship fund momentum growing to demonstrate to our newer members and future members our commitment to the water environment cause, not just for ourselves but for our children and generations of children to come. This is truly a program of which each NYWEA member can be proud. Remember, the success of our students is our success as well! Make your pledge today.

Corporate Pledges



"Thinking back on my service on the Board, there's one thing I fell short on – and that was being an individual contributor to NYWEA's Scholarship Program.

I'm happy to make a contribution to this important program, and I hope others will do the same."

– Kenneth Knutsen



Alexandria Kuhl of Broadalbin, NY, NYWEA's \$10,000 scholarship winner, was recognized during the opening session of the 2008 Spring Meeting. President Robert Kukenberger made the presentation.

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Malcolm Pirnie*
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L.I. Chapter O&M Committee
Lynch Engineering
Rapid Pump & Meter

* + Bold = Renewing pledge category includes total of original and new pledge
Bold = New pledge after January 1, 2005

Individual Pledges

LEADER

\$10,000 to \$19,999

SPONSOR

\$5,000 to \$9,999

Robert & Janet Adamski*
Nicholas J. Bartilucci*
John D. Cameron, Jr.*
David & Pat Ellis*
Robert D. Hennigan*
Adam Zabinski*

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Anthony N. Borowiec
Robert Butterworth*
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Steven Gyory*
Janice Jijina*
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Fotios Papamichael*
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* + Bold = Renewing pledge category includes total of original and new pledge

Bold = New pledge after January 1, 2005

In 2004, NYWEA developed a Memorial Scholarship Program as a way to memorialize a spouse, relative, friend, member or teacher who had passed away. All contributions to Memorial Scholarships have a two-fold effect. First, a unique person is remembered in a very meaningful way, and second, the contribution to a student's education and career becomes a living memorial through the student who receives scholarship support. To date four Memorial Scholarships have been established.



NG Kaul
Memorial Scholarship



Michelle Koester
Memorial Scholarship



James Anderson
Memorial Scholarship



Lucy Grassano
Memorial Scholarship

If you would like to make a pledge to these Memorial Scholarships, please contact Patricia Cerro-Reehil at (315) 422-7811.



NYWEA Scholarship Campaign Fund

PLEDGE AND CONTRIBUTION FORM

Corporate Pledge (Minimum total pledge \$500) Individual Pledge (Minimum total pledge \$100)

Category Options (Please check one.)

Date		
Corporation Name (if applicable)		
Individual Name		
Street Address		
City	State	Zip
Email		
Phone		
Chapter		

<input type="checkbox"/>	Philanthropist	> \$100,000
<input type="checkbox"/>	Benefactor	\$50,000 to \$99,999
<input type="checkbox"/>	Patron	\$20,000 to \$49,999
<input type="checkbox"/>	Leader	\$10,000 to \$19,999
<input type="checkbox"/>	Sponsor	\$5,000 to \$9,999
<input type="checkbox"/>	Backer	\$2,500 to \$4,999
<input type="checkbox"/>	Endorser	\$1,000 to \$2,499
<input type="checkbox"/>	Supporter	\$500 to \$999
<input type="checkbox"/>	Contributor	< \$500

Amount Pledged: \$ _____

Have you pledged previously? _____ If so, what amount? \$ _____ *

Two Ways to Give!

1. *One Lump Sum Payment*
2. *Spread the Payment Out* over five years: \$ _____ per year, for five years
For example, if your Total Amount Pledged = \$125, that can equate to \$25 per year for five years.

Payment Options:

1. Check: (Check No. _____)
2. Credit Card: MasterCard Visa AMEX
Card Number: _____ Expiration Date: _____
Authorization Signature: _____

Please submit form and payment to: **Executive Office of NYWEA**
c/o NYWEA Scholarship Program
525 Plum Street, Suite 102
Syracuse, New York 13204

Questions?

Please contact NYWEA executive director, Patricia Cerro-Reehil at:
Phone: (315) 422-7811 Email: pcr@nywea.org Fax: (315) 422-3851

* Pledge category listing will be determined by cumulative sum of all pledges.

The purpose of this program is to encourage students pursuing environmental careers. Contributions are tax deductible.

Thank you for your support!
www.nywea.org/schol

Long-Standing Members (Recognized during the Awards Luncheon, Wednesday, February 9, 2011)

60 YEARS

Sterling Brisbin
Alvin Goodman
Paul Kostick
Samuel McLendon
Norman Nosenchuck
Herman Zablatzky

John Kwak
James McConie
Harvey Moutal
Ted Pieczonka
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Ronald Macomber
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Kent Masseur
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Michael Shaw
Bryan Smith
Thomas Tommell
Richard Weiss
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50 YEARS

E.P. Aikins-Afful
Albert Bromberg
Paul Goldstein

30 YEARS

Leo Aparri
Nellie Joan Brown
Terry Brown
Tom Cimarelli
J. Kevin Farmer
Bipin Gandhi
Phillip Gleason
Charles Gregory
Nicholas Ilijic
Vern Ingraham
John Mc Gowan
Charles Mendes
George Milner
Chester Morton
Gerard Palumbo
John Ruggiero
Stephen Sansone
Jeffrey Shurilla

20 YEARS

Derek Anderson
David Beecher
Donna Bensin
David Bissell
Robert Connaughton
David Coons
James Cooper
Robert Cornell
Richard Culmone
Thomas Cybulski
Philip Degaetano
Glenn DiGiovanni
David Ellis
Lawrence Glasheen
Paul Grosser
Donald Grunden
Stephen Hadjiyane
Richard Hulst
David Jordan
John Kissane
William Krenn

40 YEARS

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Anthony Borowiec
Richard Cohen
Joseph Davenport
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Special Events

Monday, February 7, 2011

- 10:10 am** **New Member Meet 'n Greet** (*Opening Session, Marquis Ballroom*)
We've created a new format for this event and invite all new members to join us during the coffee break at the Opening Session to learn more about NYWEA, talk with Officers and learn about the organization's various committees and how to participate in their important work. Discover the powerful network available to you through your contact with the New York Water Environment Association.
- 2:30 pm-3:30 pm** **Utility Executives Roundtable** (Attendance limited to Utility Executives) *Location: Brecht, 4th Floor*
NYWEA recognizes the value and importance of utilities to the organization, and these ongoing meetings allow an open dialogue to address common utility issues statewide.
- 4:30 pm-5:30 pm** **Women's Networking** *Location: Suite #4444*
Over the past several years, women engineers, scientists, operators and vendors have met to discuss ways to increase participation by women in the Association and to provide mentoring of women in the water environment field. Please join us for a state-wide get-acquainted and networking event for NYWEA women. No fee.
- 4:30 pm-5:30 pm** **Exhibitor Reception** *Location: Exhibit Hall, 5th Floor*
Be sure to show your support to the exhibitors and visit the Exhibit Hall! A great place to see the latest and greatest available technology and service.
- 6:00 pm-8:00 pm** **83rd Annual Meeting Reception & Celebration** *Location: Upper Terrace/Promenade, 9th Floor*
Please join us at the Monday Night Reception to celebrate NYWEA's 83rd Annual Meeting. At the event, learn how NYWEA is doing its part in helping Water for People obtain its vision of a world where all people have access to safe drinking water and sanitation; a world where no one suffers or dies from a water- or sanitation-related disease.

Tuesday, February 8, 2011

- 7:30 am** **CMOM Blues (Collections Systems) Breakfast** *Location: Gilbert, 4th Floor*
This breakfast featuring Blueberry Muffins and soul-filled background music will provide the perfect setting to network with other wastewater collection systems professionals from across the state. NYSDEC staff will be on-site to hear comments and answer questions.
- 7:30 am** **American Academy of Environmental Engineers' Breakfast** *Location: Hart, 4th Floor*
New Diplomates as well as engineers and students interested in specialty certification through the Academy will be welcomed and introduced to the Academy. Diplomates are encouraged to specifically invite students and engineers to this breakfast meeting.
A presentation on the 2010 award winners of the annual "Excellence in Environmental Engineering" competition will be given, with highlights of the innovations and environmental benefits of each project.
- 10:00 am** **Student Chapter Activities** *Location: O'Neill, 4th Floor*
Student Officers/Advisors Meeting in Student Lounge
12:00 pm Student Luncheon
Student Chapter Recognition Grant will be made during the lunch.
- 1:20 pm-4:40 pm** **10th Annual Student Paper Competition**
During the University Forum as part of the Student/YP Day
Awards will be presented in four categories. Student Chapter teams compete in the NYWEA 2011 Paper Competition. Plan to attend and support these talented student leaders.
- | | | | |
|------------------------|--------------------|------------------------|--------------------|
| 1st Place | \$600 and a Plaque | 3rd Place | \$150 and a Plaque |
| 2nd Place | \$250 and a Plaque | Finalist | Plaque |
- Visit the Student Lounge, it's a great place to network throughout the conference!
The lounge is a great place:
- To build professional relationships and meet with peers;
 - To use as a private room for interviews with potential employers;
 - To meet your NYWEA Student Committee representatives and members;
 - To promote the attributes of your Student Chapter;
 - To see your resume displayed electronically.
- Join your friends in the Student Lounge during the 83rd NYWEA Annual Meeting.

Tuesday, February 8, 2011, continued

Middle School/High School Public Outreach Activities *Location: Brecht, 4th Floor*

As a way to get the importance of Water Quality management and education to a younger audience, the NYWEA Public Outreach Committee will be hosting 30 students from two schools – St. Clare Middle School from Staten Island and the High School for Green Careers from New York City. Please join us in welcoming these students to the meeting!

9:30 am
10:00 am– 11:00 am
11:00 am–12:30 pm

12:30 pm–1:30 pm
1:30 pm–2:30 pm
2:30 pm

Registration / Group photos for Newsletter and Web page
Water is Life–Infrastructure Makes it Happen video and treatment plant process description
Exhibit Hall Tour: Treatment processes, screens, settling tanks, disinfection, digesters, digester gas use, biosolids use
Lunch
Bringing Wastewater to Times Square presentation
Dismissal

4:30 pm–6:30 pm

Young Professionals Sponsored Reception *Location: Empire/Hudson, 7th Floor*

All are welcome to join us for refreshments and the opportunity to meet the young professionals of our industry.

Wednesday, February 9, 2011

12:00 pm

NYWEA Awards Celebration *Location: Manhattan Ballroom, 8th Floor*

Join us for the 2010 Awards Celebration that will recognize the outstanding achievements of some of the most talented and dedicated professionals in the water environment industry. NYWEA will present over 20 awards in the following categories: Industrial/Municipal Achievement; Environmental Science; Safety; Service; Awards to Public Officials; and more. Plan to be a part of this grand celebration!

Tom Whetham will be recognized for his outstanding contributions and service to the NYWEA during the 2010 year and will conduct the ceremonial “passing of the gavel” to Anthony Della Valle as he assumes the office of President of NYWEA for the 2011 year.



*The Membership Committee
of the
New York Water
Environment Association, Inc.*

Cordially invites you to attend

*New Member
Meet 'n Greet*

during the 83rd Annual Meeting

Monday, February 7, 2011

10:10 am

*During Coffee Break of Opening Session
Marquis Ballroom, 9th Floor*



NYWEA Young Professional Committee Reception

Tuesday

February 8, 2011

4:30 pm – 6:30 pm

**Marriott Marquis Hotel
Empire/Hudson, 7th Floor**

**There will be light snacks,
beer, wine, soft drinks and more!**

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David A. Smith
William D. Smith
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Adam Zabinski

Lifestyle Program

Sunday February 6, 2011

3:00 pm

Reserved tickets for *Wicked*

Wicked remains one of Broadway's most popular musicals, and features some of the most creative storytelling on Broadway. Taking its cue from the novel by Gregory Maguire, the Broadway musical re-invents the familiar world of Oz (as in Dorothy and The Wizard). *Wicked* is the story of the relationship between two young women who grow up to become Glinda The Good Witch, called Galinda Upland, and the Wicked Witch of The West, known in the musical as Elphaba. While this is a clever premise, the musical goes a step further by getting the audience to reconsider long-held beliefs about these two mythic figures. Young or old, we all know where the story of where these witches will end up, and showing us how it might have begun makes the show all the more rewarding. In addition, *Wicked* teaches us to challenge our beliefs and look beyond that with which we are already familiar.

Gershwin Theatre, 222 West 51st Street

Tickets: \$100.25

Call 315-422-7811 ext.1 or email mah@nywea.org to reserve

Limited tickets available



Monday February 7, 2011

9:00 am

Breakfast with Tina at Encore Restaurant, 8th Floor

11:00 am–3:30 pm

A Slice of Brooklyn Pizza Tour

A Slice of Brooklyn Pizza Tour was started by Tony Muia, a proud native Brooklynite who, for 30 years, has been eating the phenomenal pizza that his tours now highlight. An avid traveler, Tony made many friends while touring the U.S. and overseas. As these friends began to visit Tony in New York, he began conducting Brooklyn tours to show off his favorite borough.

After hearing complaints of not being able to find good pizza in Manhattan, Tony took a group of ten friends on a guided tour of the best pizzerias in Brooklyn—while also highlighting the landmarks, movie locations and points of interest that have made Brooklyn world-known. Word spread, and by the time Tony planned his next pizza tour, over 20 people wanted to join ... thus was born *A Slice of Brooklyn Pizza Tour*.

This four-and-a-half hour tour covers pizza and Brooklyn ... from one end to the other. From award winning, Neapolitan-style pizza at Grimaldi's under the Brooklyn Bridge (where there's *no* waiting on line!) to legendary Sicilian-style pizza at L&B Spumoni Gardens in Bensonhurst.

Included is a multimedia sightseeing tour that highlights Brooklyn's famous neighborhoods, parks, landmarks and famous movie locations like *Saturday Night Fever*, *Goodfellas*, *The French Connection* and more!

Tour Highlights:

- Brooklyn Bridge Park for the most spectacular view of the Brooklyn Bridge!
- Coney Island's landmark amusement park and boardwalk
- The scenic Brooklyn and Verrazano-Narrows Bridges
- The history of pizza from Italy to Brooklyn
- The Brooklyn Army Terminal where Elvis shipped off to Germany in 1958
- Million dollar homes along scenic Shore Road in Bay Ridge, including the famous "Gingerbread House"
- Learn about Brooklyn-born celebrities
- Locations from movies filmed in Brooklyn such as *Saturday Night Fever*, *Goodfellas*, *The French Connection*, *Scent of a Woman*, *Annie Hall* and many more. We show you the respective movie clips on our TV monitors as we drive up to the movie locations!
- Brighton Beach: the Russian section of Brooklyn known as "Little Odessa"



6:00 pm–8:00 pm

83rd Annual Meeting Reception Location: Upper Terrace/Promenade, 9th Floor

Committee Meetings and Special Events

Sunday, February 6, 2011

- 9:00 am–12:00 pm *Executive Committee, Suite #4444*
12:00 pm–4:00 pm *Board of Directors – O’Neill, 4th floor*
6:00 pm–7:30 pm *President’s Reception – Suite #4444*

Monday, February 7, 2011

- 9:00 am–11:30 am *Opening Session, Marquis Ballroom 9th Floor*
10:00 am–5:30 pm *Exhibit Hall Open – 4th & 5th Floors*
10:10 am *New Member Meet & Greet (Opening Session)*
12:00 pm–1:00 pm *Membership Committee – Brecht, 4th Floor*
12:00 pm–1:00 pm *Member Education Committee – Gilbert, 4th Floor*
2:30 pm–3:30 pm *Utility Executives Roundtable Discussion (Attendance limited to Utility Executives) – Brecht, 4th Floor*
2:30 pm–3:30 pm *Residuals & Biosolids Committee – Gilbert, 4th Floor*
4:30 pm–6:00 pm *Public Education Committee – Brecht, 4th Floor*
4:30 pm–5:30 pm *Program Committee – Gilbert, 4th Floor*
4:30 pm–5:30 pm *Exhibitor Reception – Exhibit Hall, 5th Floor*
4:30 pm–5:30 pm *Women’s Networking – Suite #4444*
6:00 pm–8:00 pm *83rd Annual Meeting Reception – Upper Terrace/Promenade, 9th Floor*

Tuesday, February 8, 2011

- 7:30 am–9:00 am *American Academy of Environmental Engineers’ Breakfast – Hart, 4th Floor (registration required)*
7:30 am–8:30 am *CMOM Blues (Collections Systems) Breakfast – Gilbert, 4th Floor (registration required)*
8:30 am–4:00 pm *Exhibit Hall Open – 4th & 5th Floors*
9:30 am–2:30 pm *Middle/High School Public Outreach Activities – Brecht, 4th Floor*
9:00 am–10:00 am *Collection Systems Certification Board – Gilbert, 4th Floor*
10:00 am–11:00 am *Scholarship Committee – Gilbert, 4th Floor*
10:00 am–11:00 am *Wastewater Facilities Committee – Hart, 4th Floor*
10:00 am–4:30 pm *Student Activities – Special Events – O’Neill 4th Floor*
12:00 pm–1:30 pm *Student Luncheon – O’Neill, 4th Floor*
12:30 pm–1:30 pm *Government Affairs – Gilbert, 4th Floor*
12:30 pm–3:30 pm *Mid-Atlantic Biosolids Association (MABA) – Hart, 4th Floor*
1:20 pm–4:40 pm *Student Paper Competition – O’Neill, 4th Floor*
2:30 pm–3:30 pm *Awards Committee – Gilbert, 4th Floor*
4:30 pm–5:30 pm *Sustainability Committee – Gilbert, 4th Floor*
4:30 pm–6:30 pm *Young Professionals (YP) Sponsored Event – Empire/Hudson, 7th Floor*

Wednesday, February 9, 2011

- 7:30 am–9:00 am *Past President Group - Hart, 4th Floor (sign-up)*
11:00 am–12:00 pm *Select Society of Sanitary Sludge Shovelers (SSSSS) – Gilbert, 4th Floor*
12:00 pm *Awards Celebration – Manhattan Ballroom, 8th Floor*



Welcome to the 83rd Annual Meeting of the New York Water Environment Association, Inc.

Registration Information

The registration area will be located on the 5th Floor outside the Westside Ballroom, *except on Wednesday.*

The Registration Desk will be open:

- Sunday 2:00 pm – 5:30 pm (5th Floor)
- Monday 8:30 am – 5:00 pm (5th Floor)
- Tuesday 8:30 am – 4:00 pm (5th Floor)
- Wednesday 8:30 am – 2:00 pm (4th Floor)

Exhibit Information

Exhibit Hours

(A listing of Exhibitors starts on page 25.)

Monday, February 7

- 11:45 am – Opening Ceremony-Ribbon Cutting
- 10:00 am – Exhibition Opens
- Exhibit Hall closes 5:30 pm (after Reception)

Tuesday, February 8

- 8:30 am – Exhibition Opens
- 4:00 pm – Exhibition Closes

Badges will be required for entry into all functions.

Meeting Room Locations and Hotel Information

4 / Fourth Floor

Brecht	Odets
Gilbert	O'Neill
Hart	Wilder
Ziegfeld	

5 / Fifth Floor

Westside Ballroom	
Alvin	
Broadhurst	Belasco
Julliard	Imperial
Edison	Booth
Lyceum	

6 / Sixth Floor

Broadway Ballroom	
Majestic	Royale
Music Box	Shubert
Palace	Winter
Garden	Uris
Plymouth	

7 / Seventh Floor

Astor Ballroom	Harlem
Chelsea	Gotham
Empire	Hudson
Duffy	Olmstead
Columbia	Gramercy
Herald	Soho

9 / Ninth Floor

Barrymore	Cantor
Jolson	Marquis
Ballroom	
Salon A, B, C	
Upper Terrace/Promenade	

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- 37th Floor

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- Encore, 8th Floor
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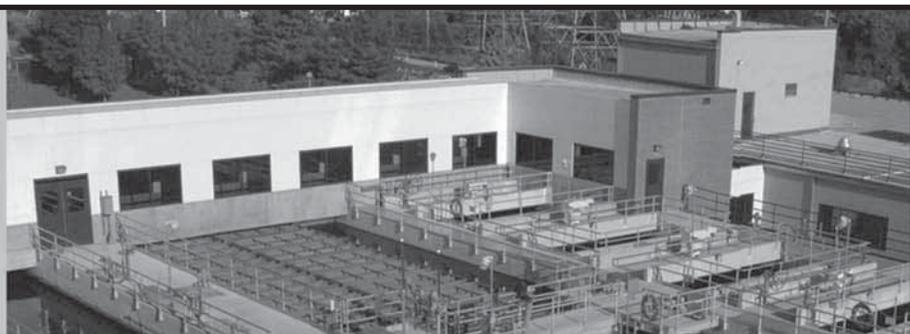
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Charles Wilson	cwilson@hazenandsawyer.com	617-574-4747
Julie Stein	JulieS@dep.nyc.gov	718-595-4397
Robert Wooldridge	rwooldridge@thermalprocess.com	847-778-3090
Kevin Wynn	kevin.wynn@hatchmott.com	973-912-2537
Sean Zhang	szhang@hazenandsawyer.com	212-539-7114



Proudly Announce

Joint 2011 Spring Meeting and Exhibition

June 6 – 8, 2011

*to be held at the scenic Sagamore Resort
in Bolton Landing, NY*



PRELIMINARY MEETING AGENDA

SUNDAY

Operations Challenge Set-up
Evening President's Reception

MONDAY

Opening Session
with breakfast
Operations Challenge
Competition
Morning Technical Sessions
Exhibit Area Opens AM
Afternoon Technical Sessions
Reception in Exhibit Area

TUESDAY

Morning Technical Sessions
Afternoon Technical Sessions
Exhibit Area Open All Day
Off-site Environmental
Science Tour
Golf at Sagamore Golf Course
Evening Dinner and Reception

WEDNESDAY

Morning Technical Sessions
*Professional development
hours available*

CALL FOR PAPERS

- Asset Management
- Collection Systems
- CSO/Wet Weather Issues
- Energy
- Government Affairs
- Hazardous Waste and Groundwater Protection
- Industrial Waste
- Information Technology and Automation
- Laboratory Practices
- Micro-Constituents
- Operator Certification
- Plant Operations
- Public Education
- Research and New Technologies
- Residuals Management
- Safety
- Small Community Outreach
- Storm Water
- Sustainability
- Utility Management
- Water for People
- Water Reuse
- Watershed Management
- Wetlands

*Abstract Submittal Deadline
is February 26, 2011.*



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Industrial Wastewater Ed Powers
Member Education Keneck Skibinski
Membership Michael Memoli
Pre-treatment Coordinator Harry Reiter
Program Paul McGarvey, Richard Pope
Public Education Joseph Corrado
Publications Vacant
Residuals and Biosolids Jeff LeBlanc
Scholarship Alfonso Lopez, Diane Hammerman
Spring Meeting Conference Management . Dave Barnes
Strategic Planning Mark Koester
Student/University Walter Saukin
Sustainability Vincent Rubino
Wastewater Collection Systems Stella Rozelman
Wastewater Facilities George Bevington
Watershed Fred Schuepfer
Young Professionals Joe Fiegl

Collection Systems Board Tim Miller

Task Forces –

Business Plan T/F Tom Whetham
Clean Water Funding T/F Steve Fangmann
Emergency Preparedness T/F Kevin Donnelly
Hazardous Waste T/F Frank Langone
NYSDEC '88 Design Standards T/F

Robert Butterworth

Student Paper Design T/F J. Kirk Rowland
Webcast T/F Frank Russo

83rd Annual Meeting Conference Managers

William Grandner, John Ruggiero,
 Larry Brincat, Norm Melbinger,
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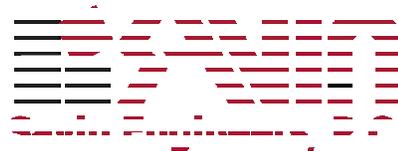
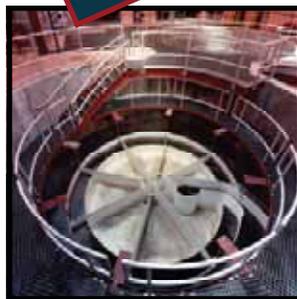
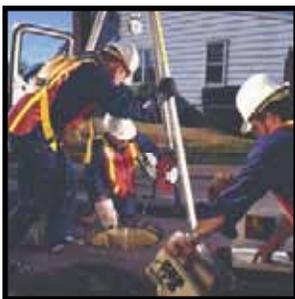
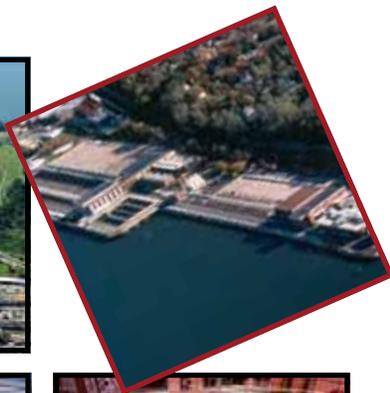
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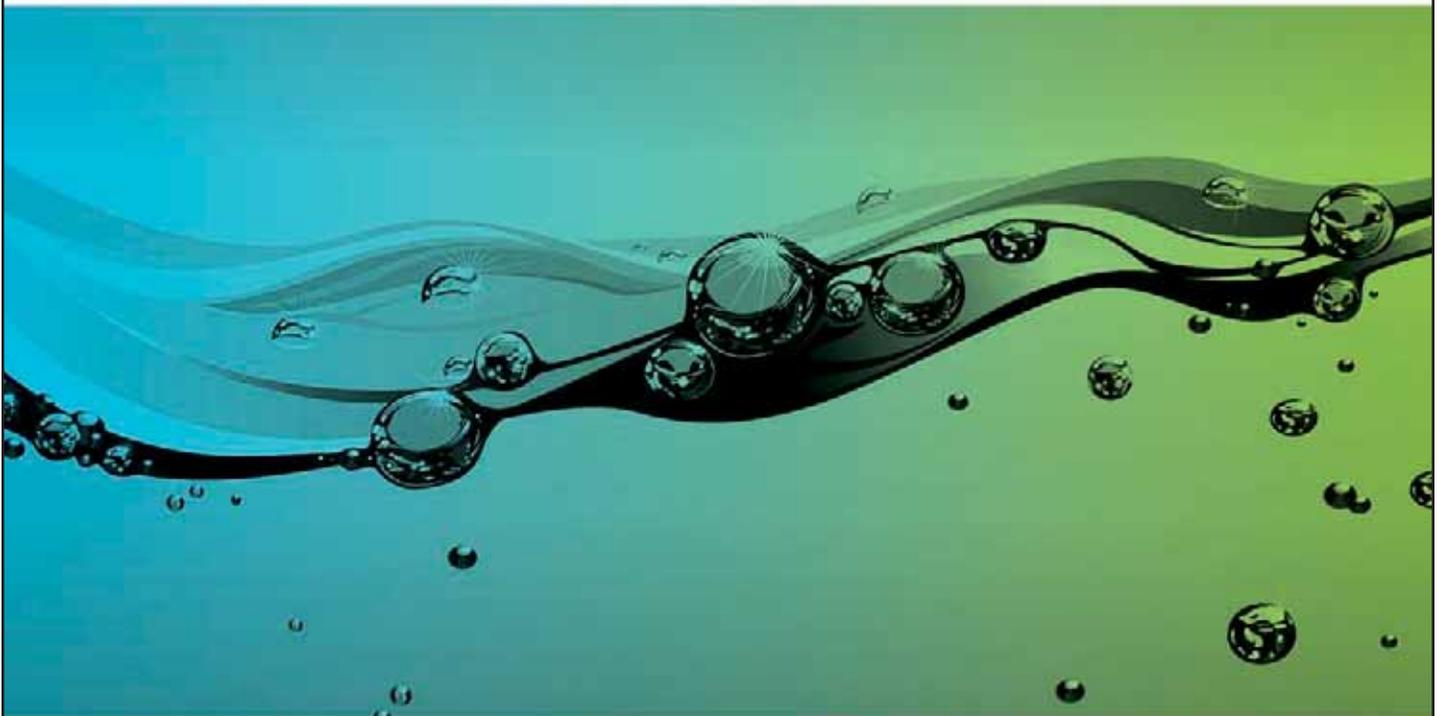


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83rd ANNUAL WINTER MEETING

FEBRUARY 7-9, 2011

MARRIOTT MARQUIS, NEW YORK CITY



REGISTRATION FORM FOR **NON-MEMBERS ONLY**

INSTRUCTIONS

This form is valid for **non-members** only, please fill out all portions of this form. (Includes a 1-year NYWEA Affiliate Membership)

REGISTRANT

Please type or print the following information **AS IT IS TO APPEAR ON YOUR NAME BADGE**

LAST NAME _____ FIRST NAME _____ M.I. _____

TELEPHONE _____ TITLE _____ COMPANY NAME _____

ADDRESS _____ EMAIL _____

(Please Print Clearly)

NON-MEMBER

Pre-registration One Day Mon.....\$ 390 Tues.....\$370 Wed.....\$370 Full Week.....\$545

OPERATORS

Non-Member: Mon.....\$145 Tues.....\$145 Wed....\$130

To qualify for Operator Registration you must be a PWO member, and work on a day to day basis in the operation or maintenance of a wastewater collection or treatment facility.

STUDENT (As defined by WEF/WEA, proof required-photo ID)

Monday\$30 Tuesday\$30 Wednesday\$30

YOUNG PROFESSIONAL (Includes Monday & Tuesday night receptions and Buffet Lunches) Must be 35 yrs or younger, copy of drivers license required.

Non-Member One Day Mon.....\$240 Tues.....\$265 Wed.....\$240 Full Week.....\$515

SPEAKERS (Day of Presentation Only, Please Specify Day)

RETIRED (Retired from and not currently professionally involved with the water quality field)

\$280 Mon..... Tues..... Wed

Full Week....\$250

What's Included with Your Registration?	Monday Luncheon	Monday Reception	Tuesday Luncheon	Tuesday Student Luncheon	Wednesday Awards Luncheon
Full Week	Yes	Yes	Yes	No	Yes
One-day Monday	Yes	Yes	No	No	No
One-day Tuesday	No	No	Yes	No	No
One-day Wednesday	No	No	No	No	Yes
Student	No	No	No	Yes	No
Operator Monday	Yes	No	No	No	No
Operator Tuesday	No	No	Yes	No	No
Operator Wednesday	No	No	No	No	No
Young Professional	Yes	Yes	Yes	No	Yes
Retired	Yes	Yes	Yes	No	Yes
Speaker	Yes	No	Yes	No	No

LIFESTYLE ATTENDEE

Name & Mailing Address
(Home Address)

Name _____

Street Address _____

City/State _____

Zip _____

Email _____

Ticketed Events No Refunds after 1/14/11	Quantity	Price
A) Additional Reception Tickets (6-8PM) Monday		\$75
B) Lifestyle Program*		\$175
C) Additional Awards Luncheon Tickets, Wednesday		\$55
D) AAEE Breakfast (Tuesday 7:30 am)		\$25
E) CMOM Blues Breakfast (Tuesday 7:30 am)		\$25
F) Contribution to Scholarship Program (Optional)		\$10
Total		

*Includes President's Reception, Lifestyle Program Monday (Breakfast & Lunch), Reception Monday Evening, (Does not include Wednesday Awards Luncheon).

PAYMENT

CASH CHECK NO.# _____ VOUCHER

VISA MASTER CARD AMEX CARD NO. _____ EXP. _____ V-Code _____

DATE: _____ REC'D BY _____ PLEASE MAKE CHECKS PAYABLE TO THE NYWEA.

REGISTRATION POLICIES

Only individuals registered and badged may attend convention events. Registrations received after January 14, 2011 will be charged the site-registration fee. CANCELLATIONS: Cancellations must be submitted in writing by January 14, 2011. A \$25 service fee will apply to all cancellations received before January 14; no refunds will be made on registration fees or special events after January 14th. (Due to NYWEA agreements and required guarantees, fees are forfeited if you are unable to attend the conference.) TAX DEDUCTION: U.S. Citizens-Treasury regulation 1.162-5 permits an income tax deduction for education expenses (registration fees, cost of travel, meals and lodging) undertaken to maintain or improve skills required in one's employment or business.

Registrant please return this form to:

NYWEA, 525 Plum Street, Suite 102, Syracuse, NY 13204, or
 fax it to: 315-422-3851 or email: mah@nywea.org and retain a photocopy for your records
 Phone: 315 422-7811; www.nywea.org