

**101<sup>st</sup>  
Annual  
Conference**

**AT  
BALLY's  
ATLANTIC CITY  
May 16 - MAY 20, 2016**

**101<sup>st</sup> John J. (Jack) Lagrosa  
Annual Conference and  
Exposition of the  
New Jersey Water Environment  
Association**

**On- Site REGISTRATION HOURS**

SUN. 2:00 PM – 6:00 PM

MON. 7:30 AM – 5:15 PM

TUES. 6:45 AM – 5:00 PM

Credential Pick-up at Meet &amp; Greet Door

WED. 7:30 AM – 4:00 PM

THUR. 7:30 AM – 12:00 NOON

**NJWEA OFFICERS**

Richard D. Eustace, President

Robert J. De Block, Vice President

Bruce D. Smith, Treasurer

John J. Lagrosa, Executive Director

**CONFERENCE MANAGER**

John J. Lagrosa – (201) 296-0021

**EXHIBIT HOURS**

TUES. 9:00 AM – 5:30 PM

WED. 9:00 AM – 5:30 PM

THUR. 10:00 AM – 2:00 PM

**COLLECTION COMMITTEE**

Louis C. Lambe, Chair

**OPERATIONS CHALLENGE**

John Reardon, Chair

Michelle Salfi, Spring Fling Coordinator

**INDUSTRIAL COMMITTEE**

John S. Schneekloth, PE, Chair

**REGISTRATION COORDINATOR**

DARLENE GALBRAITH

OFFICE: (973) 239-9200

FAX: (973)239-9239

EMAIL: Dgalbraith@njwea.org

**LABORATORY COMMITTEE**

Jim Neville, Chair

**PROGRAM COMMITTEE**

Michael J. Hope, Chair

**SITE REMEDIATION COMMITTEE CO-CHAIRS**

Joseph R. Fallon, REM and Peter Postorino,

**CONFERENCE VICE CHAIRS**

Henry Penley and Richard D. Eustace

***The NJWEA 101<sup>st</sup> John J. (Jack) Lagrosa Annual Conference and Exposition Agenda at Bally's Atlantic City for May 2016 Includes Something for Everyone******“John Downes Workshops” for Wastewater, Collection, Maintenance, Industrial, Laboratory and Safety******Professional Engineers*** - Certain courses include CPC Credits for NJ and NY PEs (look for NYPE or NJPE in the course description and see page 15 regarding NJ and NY PE CPC Credit). Most courses also qualify for PA PE CPC Credits (see page 16 of this Flyer for more information on PA PE CPC Credit).***WEF-NJWEA GIS/Asset Management Workshop, AAES Workshop, Drivers Safety, Air Pollution, Hazwoper, Energy Recovery and Conservation, and much more.*****MONDAY, MAY 16, 2016****AAES WORKSHOP - Nutrient Recovery**

(8:30 a.m. to 4:15 p.m.) (TCH Hours: 6 WW)

NJDEP Course No. 03-02 16 01 2-0

CPWM No. NJWEA-DLGS-910 Tech. 6 Hrs.

NYPE 6; NJPE 6

The environmental profession is typically concerned with protecting the environment from society's outputs – its wastes. The sustainability field shares this concern, but also deals with our inputs – resources. The recognition that wastes can be resources links these two fields. Wastewater is rich in resources we need, notably water itself, energy, and the subject of this workshop: Nutrients. If we link nutrient *removal* to protect water with nutrient *recovery* to reduce our dependence on resources, we gain a double benefit. At this workshop you will hear from experts on the sustainability issues and on the removal and recovery technologies that will turn our nutrient wastes into nutrient resources.

Moderators: David A. Marabello, PE, BCEE, CDM Smith

Jay R. Surti, PE, CH2M

David A. Vaccari, PhD, PE, BCEE, Stevens Institute of Technology

8:45 a.m. “Global Cycles of Nitrogen and Phosphorus – Resources and Leaks,” David A. Vaccari, PhD, PE, BCEE, Stevens Institute of Technology

9:15 a.m. “Enabling Extractive Nutrient Recovery – A Disruptive Nutrient Management Strategy for a Circular Economy,” Samuel Jeyanayagam, PhD, PE, BCEE, CH2M and Wendell Khunjar, Hazen and Sawyer

9:45 a.m. “Recovery of Wastewater Nitrogen at Local-Scale: A Feasible Option?” Daniel Smith, Applied Environmental Technology (AET)

10:15 a.m. “The Economics of Phosphorus Recovery at Wastewater Treatment Plants,” David Kinnear, HDR

10:45 a.m. BREAK

11:00 a.m. “Simultaneous Recovery of Nitrate and Phosphorus with a Hybrid Ion Exchange Process,” Chelsey Shepsko, Lehigh University

11:30 a.m. “Towards a Zero Cost - Biorefinery Using a New Nutrient Recovery Model Library and Global Sensitivity Analyses,” Céline Vaneeckhaute, Selow-Sustainable Energy Low Waste, Université Laval, Ghent University

12:00 p.m. LUNCH

1:00 p.m. “Bang for the Buck: Which Interventions Best Conserve Phosphorus Resources?” David A. Vaccari, PhD, PE, BCEE, Stevens Institute of Technology

1:30 p.m. “Nutrient Recovery from Sewage Sludge Incinerator Ash,” Peter Burrowes, PEng, CH2M

2:00 p.m. “Lessons Learned from Applying Extractive Nutrient Recovery for Managing Phosphorus in Sidestreams and Biosolids,” Sara Galst, Hazen and Sawyer

2:30 p.m. “Nutrient and Energy Recovery in Decentralized Sustainable Water/Used Water/Energy Management of Future Cities,” Vladimir Novotny, AquaNova LLC

3:00 p.m. BREAK

3:15 p.m. “Industry Update for WASSTRIP on WRRF Nutrient Flows, Digestion and Dewatering of bio-P Sludge,” Michael Ditton, Ostara Nutrient Recovery Technologies

3:45 p.m. “Alternative Methods on Struvite Control,” Krish Ramalingam, The City College of New York

Alternate "Phosphate Recovery from Anaerobic Digester Effluents Using Dolomite Lime," Jie Ge, Stevens Institute of Technology

(Unfortunately we can't bank the point reduction, it's a onetime deal that we can do only once every three years.)

### **WEF-NJWEA GIS & Asset Management-1**

(9:00 a.m. to 4:30 p.m.) (TCH Hours: 6 W&WW)

NJDEP Course No. 03-02 16 02 3-0

CPWM No. NJWEA-DLGS-911 Tech. 6 Hrs.

NYPE 5; NJPE 6

Moderators: Stephen R. Blankenship, PE, Executive Director, Hamilton Township MUA  
Brian J. Brach, PE, Executive Director, Manasquan River RSA

9:00 a.m. "Force Mains: The Challenging Assets," Bryon Livingston, PE, Senior Project Engineer, Black & Veatch

9:30 a.m. "Taking it to the Next Level: Predictive Models Based on Over 500 Miles of Force Mains," David Smith, PE, Senior Project Manager, Pure Technologies US, Inc.

10:00 a.m. BREAK

10:15 a.m. "Embracing New Inspection Technology," Eyad Mizian, Vice President, Louis Berger

10:45 a.m. "Road Map to Mobile Asset Management," Raghu "Paul" Panduragan, GISP, Hamilton Township MUA

11:30 a.m. "Emerging GIS Technologies that Support System Operations and Asset Management," Jayson Brennen, Vice President, CDM Smith

12:00 p.m. LUNCH

1:00 p.m. "New Jersey AIMS: Advanced and Integrated Menu of Strategies for Sustainable Sewer and Stormwater Systems," Jennifer Gonzalez, Principal Environmental Planner, Louis Berger and Chris Strum, Managing Director, New Jersey Future

1:45 p.m. "Sewer Modeling: How a Model Streamlines Decisions," Michael Rosh, Water Solutions Consultant, Bentley Systems

2:30 p.m. BREAK

2:45 p.m. "GIS: Enhancing Organizational Change," Kurt A. Croft, Operations Manager, Evesham MUA

3:30 p.m. "Financial Benchmarking," Stephen R. Blankenship, PE, Executive Director, Hamilton Township MUA

4:00 p.m. "Asset Management Round Table," Round Table to Discuss Emerging Issues, Touching Upon Topics from the GIS & Asset Management Session

### **Driver Safety**

(9:00 am to 4:00 pm) (TCH Hours 6 Safety)

NJDEP Course No. 03-02 06 03 3-1

CPWM No. NJWEA - NJWEA-DLGS-276 Tech. 6 Hrs.

Instructor: Harry E. Smith III, CSM, President of Certified Health and Safety Services, LLC

A comprehensive and interactive six hour course that outlines the offensive and defensive driving attitudes we experience each day. The good, the bad, and the ugly. Participants will be eligible for a 5% or \$50.00 insurance premium reduction for three years (NJ State Law). Also, for those who need it, we can deduct two points off your NJ Driver's License.

### **Engineering a Solution 2016- Assessment and Optimization to Improve Plant Efficiency**

(1:00 p.m. to 4:00 p.m.) (TCH Hours: 3.0 W&WW)

NJDEP Course No. 03-02 16 03 3-0

CPWM No. NJWEA-DLGS-912 Tech. 3 Hrs.

NYPE 3; NJPE 3

Moderators: Joseph Polomene, PE, Associate, Sherwood-Logan & Associates, Inc.  
Roseann Pettrow, Sales Representative, Dave Heiner Associates, Inc.

1:00 p.m. "Ultraviolet Disinfection - 100 Years and Still Ampin", Denis Rehse, UV Applications Engineer, PSI Process & Equipment

1:45 p.m. "Alkalinity Mass Balance and Alkalinity Recovery Options for a Partially Nitrifying Plant", Jurek Patoczka, PhD, PE, Vice President-Process Design, Hatch Mott MacDonald

2:30 p.m. "Converting Biogas into Energy and Vehicle Fuel," Eric Wilgenbusch, Sales & Application Engineer, Unison Solutions

3:15 p.m. "CREAT – Climate Resilience Evaluation and Awareness," Rina Dalal, EIT, T&M Associates, Inc. and Mike Ruppell, Executive Director, South Monmouth Regional Sewerage Authority

### **NJWEA President's Award Reception** (5:00 p.m.)

## **TUESDAY, MAY 17, 2016**

### **AAEES/NJWEA Wesley Eckenfelder Memorial Breakfast**

(7:00 a.m. to 8:15 a.m.) (TCH Hours: 1 WW)

NJDEP Course No. 03-02 16 04 2-0

CPWM No. NJWEA-DLGS- 913 Tech. 1 Hr.

NYPE 1; NJPE 1

7:00 a.m. "State-of-the-Art Recovery of Phosphorus from Wastewater," James L. Barnard, Black & Veatch

### **WEF-NJWEA GIS & Asset Management-2**

(9:00 a.m. to 4:30 p.m.) 6.0 TCH Hours per day WW

NJDEP Course No. 03-02 16 05 3-0

CPWM No. NJWEA-DLGS-914 Tech. 6.0 Hrs.

NYPE 6; NJPE 6

Moderators: Aditya Ramamurthy, Hazen and Sawyer  
Brian J. Brach, Manasquan River RSA

9:00 a.m. "Asset Management Levels of Service / Performance Measurements," Ryan Nagel, Hazen and Sawyer

9:30 a.m. "Rate Setting Related to Asset Management," Harold Smith, Raftelis Financial Consultants, Inc.

10:00 a.m. BREAK

10:15 a.m. "Financing Approaches to Asset Management," David Hyder, Hawksley

- 10:45 a.m. "Management Strategy Groups: Using Asset Data for Better Decision Making," Mert Muftugil, GHD
- 11:15 a.m. "Aligning Asset Management and Triple Bottom Line Principles to Deliver Successful Capital Improvement and Master Planning Efforts," David Sklar, Hawksley
- 11:45 a.m. Discussion
- 12:00 p.m. LUNCH
- 1:00 p.m. "Managing, Tracking and Reporting Asset Management Key Performance Indicators," Aditya Ramamurthy, Hazen and Sawyer
- 1:30 p.m. "The Lancaster Area Sewer Authority Asset Management Program – Home Grown Success for Small to Medium Sized Agencies," Mike Kyle, Lancaster Area Sewer Authority
- 2:00 p.m. "Asset Management, EMS and the SRF to Improve Operational Performance and Reduce Costs, Andrew Kricun, Camden County MUA
- 2:30 p.m. BREAK
- 2:45 p.m. "GIS and Asset Management in Hanover Township," Mike Wynne, Hanover Township
- 3:15 p.m. Asset Management at a Reasonable Price," Philip Tiewater, Opus International
- 3:45 p.m. Discussions and Wrap Up

### **Collection System Manager's Workshop**

- (8:15 a.m. to 1:15 p.m.) (TCH Hours: 4.0 WW)  
 NJDEP No. 03-02 16 06 2-0  
 CPWM No. NJWEA-DLGS-915 Tech. 4 Hrs.  
 Moderators: William T. Suchodolski, PE, Engineering Manager, OCUA  
 Louis C. Lambe, Superintendent of Line Operations, PVSC
- 8:15 a.m. "Concrete Deterioration and Rehabilitation of Wastewater Assets," Randy Nixon, President, Corrosion Probe, Inc.
- 8:55 a.m. "Transient Analysis Challenges in Force Mains," Michael L. Altland, Vice President, Hatch Mott MacDonald
- 9:35 a.m. "Preserving the Great South Bay," Keith F. Kelly, PE, Senior Vice President, CDM Smith and John Donovan, PE, Chief Engineer, Suffolk County DPW
- 10:15 a.m. EXHIBIT AREA/BREAK
- 11:15 a.m. "Implementing Baltimore County's Sewer Line Rapid Assessment Tool (SL-RAT) Program," Paul Sayan, Associate Vice President, Louis Berger
- 11:55 a.m. "A State-of-the-Art Review on Innovative Technologies for Sewer Collection Systems," Jianfeng Wen, Research Analyst, American Water, Yunjie Tu, Yanjin Liu, Sr. Environmental Engineer, American Water
- 12:35 p.m. "Design and Operational Benefits of Horizontally Installed, Dry-Pit Centrifugal Electric Submersible Solids-Handling Pumps," Robert Domkowski, Engineering Consultant, Xylem, Inc. - Flygt
- 1:15 p.m. CERTIFICATE DISTRIBUTION

### **Laboratory Workshop**

- (8:30 a.m. to 1:30 p.m.) (TCH Hours: 4 W&WW)  
 NJDEP No. 03-02 16 07 3-0  
 CPWM No. NJWEA-DLGS-916 Tech. 4 Hrs.  
 Moderators: James Neville, Lab Manager, Cape May County MUA  
 Chris Nally, President, American Aquatic Testing
- 8:30 a.m. "NJDEP Office of Quality Assurance Updates," Debra Waller, NJDEP Office of Quality Assurance
- 9:30 a.m. "How Do I Know the Data I Produce and Use is Reliable," Stacie Metzler, Lab Manager HRSD & WEF Laboratory Committee Chair
- 10:15 a.m. BREAK
- 11:15 a.m. "Fantasy Island - The Quest to Improve Water/Wastewater Training in the Maldives," Jim Borton, Senior Operations Specialist, CH2M
- 12:00 p.m. "Wreck Pond – A Case Study," Sheri Shifren, NJDEP Bureau of Marine Water Quality Management
- 12:30 p.m. "Measuring Chlorine Below 0.020 mg/l – SM4500 Cl-E," Shane Reed, Regional Sales Manager, Hatch Co.
- 1:00 p.m. "The Development and Application of CBOD5/BOD5 Ratio to Reduce Monitoring Requirements and Costs," Charlie Liu, Senior Project Manager, BCM Engineers

### **Wastewater Treatment Operator's Program - Spring 2016**

- (8:30 a.m. to 1:30 p.m.) (TCH Hours: 4 WW)  
 NJDEP No. 03-02 16 08 2-0  
 CPWM No. NJWEA-DLGS-917 Tech. 4 Hrs.  
 Moderators: Christopher Manak, Superintendent, Madison-Chatham Joint Meeting  
 Srinivas D. Gidugu, PE, HAKS  
 Jeffrey Williams, Executive Director of Operations, Delran Township Sewage Utility
- 8:30 a.m. "Nitrite – Hunting an Elusive Quarry," Bruce P. Stevens, Regional Manager, ASA Analytics
- 9:00 a.m. "Solving Head Works Problems One Case Study at a Time," Robin Schroeder, Business Development Manager, Blue Water Technologies
- 9:30 a.m. "Taking on Trash: Equipping Wastewater Professionals to Eliminate the Wipes Nightmare," Andy Conger, Regional Sales Manager, JWC Environmental
- 10:00 a.m. BREAK
- 11:00 a.m. "P3 Project Delivers New FOG Dewatering Facility for Morris County," Ed Weinberg, President, ESSRE Consulting, Inc.
- 11:30 a.m. "Oxford Wastewater Treatment Facility Upgrade," Sean J. Sauder, Project Manager, CP Engineers, LLC
- 12:00 p.m. "Grit, The Silent Menace," David J. Silverman, PE, Applications Engineer, PSI Process and Equipment
- 12:30 p.m. "Preliminary Treatment Benefits and Considerations at Five Wastewater Treatment Plants," Sade Olapade-Olaopa, Senior Project Manager, Hatch Mott MacDonald
- 1:00 p.m. "Why Not Consider a Sequencing Batch Reactor (SBR)?" William W. Cathcart, PE, LO, Retired

## **8-Hour HAZWOPER Refresher**

(8:30 a.m. to 4:30 p.m.) (TCH Hours: 8.0 Safety)

NJDEP No. 03-01 03 04 3-1

CPWM No. NJWEA-DLGS-105 Tech. 8 Hrs.

Moderators: David Grupp, The Linde Group  
Tom Greci, ECM, Inc.

Instructors: David Grupp, Versatile Senior Environmental  
Manager  
Ed Goode, AWT Environmental Services, Inc.

### **CONTINENTAL BREAKFAST**

Morning Session:

Course/OSHA HAZWOPER Overview

"What's New with OSHA/HAZWOPER?"

Types of Hazards, Exposure Criteria

Chemical Hazard Evaluation

Personal Protective Equipment & Decon

Working Lunch: Spill Response

Afternoon Session:

Backhoe Safety

Air Monitoring Instrumentation

Respiratory Protection

DOT HazMat Shipping Overview

Heat/Cold Stress

Health & Safety Review/Quiz

Respirator Fit Testing

## **Pipeline Assessment & Certification Program - Day 1**

(9:00 a.m. – 3:30 p.m., See page 17)

## **Resiliency: Planning, Design and Economics**

(9:00 a.m. - 12:00 p.m.) (TCH Hours: 3 W&WW)

NJDEP No. 03-02 16 09 3-0

CPWM No. NJWEA-DLGS-918 Tech. 3 Hrs.

NYPE 3; NJPE 3

Moderators: Janine B. Witko, PE, Americas Water Business  
Leader, Arup  
Gary M. Grey, Senior Wastewater Specialist,  
HDR, Inc.

9:00 a.m. "Pumping Systems Optimization: Offers Lower  
Maintenance Costs, Improved Reliability and  
Higher Profitability," William C. Livotti, WEG in  
Conjunction with the Hydraulic Institute

9:30 a.m. "Green Bonds: Financing for Sustainability  
Projects," Phillip Ludvigsen, PhD, First  
Environment, Inc.

10:00 a.m. "Addressing Stormwater Vulnerabilities – Vent,  
Grates, Manholes, Tunnels – in the NYCT Subway  
System," Mike Hall, CEng, Arup

10:30 a.m. "US Army Corps of Engineers – North Atlantic  
Coast Comprehensive Study – Case Study,"  
Lauren Klonsky, PE, CDM Smith

11:00 a.m. "BRSAs Resiliency Projects – Protections from the  
Rising Tide," Bob Fisher, Executive Director,  
Bayshore Regional Sewerage Authority

11:30 a.m. "Hardening the Nation's 5<sup>th</sup> Largest Treatment  
Facility Against Another Sandy," Joseph Frissora,  
PE, Vice President, HDR Engineering and David  
Blair, PE, Vice President, AECOM

## **Air Pollution - Greenhouse Gas**

(9:30 a.m. to 4:30 p.m.) (TCH Hours: 5.5 WW)

NJDEP Course No. 03-02 16 10 3-0

CPWM No. NJWEA-DLGS- 919 Tech. 5.5 Hrs.

NYPE 5; NJPE 5

Moderator: Richard Erickson, Marketing Area Director, First  
Environment

9:30 a.m. "The Ozone Triangle – The Sequel! Balancing  
Ozone and Greenhouse Gas," Rich Cestone, PE,  
CHMM, Remington & Vernick Engineers

10:20 a.m. BREAK

10:30 a.m. "Case Studies – Implementation of Emission  
Control Improvements for SSI MACT  
Compliance," Jay Surti, PE, Senior Technologist  
and Project Manager and Peter Burrowes, PEng,  
Fellow Technologist, CH2M

11:30 a.m. LUNCH

12:30 p.m. "Realizing a Reliable, Resilient and Efficient  
Source of Energy – CHP," Douglas Friedel,  
Project Director and Domenick Loschiavo,  
Engineering Manager, Black and Veatch  
Corporation

1:30 p.m. "Microgrids + Cogeneration = Greenhouse Gas  
Reduction + Resiliency," Frederick Fastiggi,  
Principal, Shoreline Energy

2:30 p.m. BREAK

2:40 p.m. "Clean Energy Solutions for Biogas Utilization," Ed  
Weinberg, President, ESSRE Consulting, Inc.

3:30 p.m. "Climate Change Today: The Paris Climate  
Conference and COP21," B. Tod Delaney, PhD,  
PE, BCEE, President, First Environment, Inc.

## **Energy Recovery and Conservation**

(1:30 p.m. - 4:30 p.m.) (TCH Hours: 3 WW)

NJDEP No. 03-02 16 11 3-0

CPWM No. NJWEA-DLGS-920 Tech. 3 Hrs.

NYPE 3; NJPE 3

Moderators: Gary M. Grey, Sr. Wastewater Specialist, HDR  
Janine B. Witko, PE, Americas Water Business  
Leader, Arup

1:30 p.m. "Eliminate Flaring to Generate Green Energy at  
WWTPs," Pat Hughes, Enetra Therm Inc.

2:00 p.m. "Reliable CHP Solution for Dirty, Low-Methane  
Biogas or Small WWTPs," Keith Albretsen,  
WesTech Engineering and Rachelle Tippetts,  
WesTech Engineering

2:30 p.m. "Kenosha Energy Optimized Resource Recovery  
Project," Curtis Czarnecki, Kenosha Water Utility

3:00 p.m. "Biogas Combined Heat and Electrical Power  
Generation Feasibility," Tim Daily, Pennoni  
Associates

3:30 p.m. "Leveraging Raw Sewage – Energy for the  
Taking," Rich Lawlor, PEng, International Water  
Systems and Oleg Zonis, Diverka and Bartilucci  
and Guarino Environmental Engineers

4:00 p.m. "Post Construction Evaluation of Energy Efficiency  
Improvements at Wastewater Treatment Plants,"  
Greg J. Sullivan, PE, Remington and Vernick  
Engineers and Richard Czekanski, PE, Remington  
and Vernick Engineers

## **Instructors' Workshop**

(1:30 p.m. to 4:00 p.m.)

Moderators: Joseph Bonaccorso, NJDEP Advisory Committee  
Jill Plesnarski, NJDEP Advisory Committee  
Christian Hoffman, Operator Licensing Board,  
NJDEP

## **Exhibit Area Presentation – Pumps and SCADA**

(2:00 p.m. to 4:00 p.m.) (TCH Hours: 2 W&WW)

NJDEP No. 03-02 16 12 3-0

CPWM No. NJWEA-DLGS-921 Tech. 2 Hr.

Moderators: John A. Mele, Regional Manager, Hobas Pipe USA  
John Corkery, Municipal Sales Manager, PSI  
Process & Equipment

2:00 p.m. "Managing Flood Risk with Resilient Submersible Pumps," John Corkery, Municipal Sales Manager, Pumping Services, Inc./Process and Equipment and Denis Rehse

3:00 p.m. "WEB-Hosted SCADA for Remote Monitoring of Wastewater Facilities," Bryce Parkhurst, ITS/Pumping Services, Inc. and Chris Pawlik

3:30 p.m. "Pumping Theory and Terminology for Pumping Station Operators," Denis Rehse, PSI Process and Equipment Group and Sean Paratore

## **Innovative Technology Forum**

(2:00 p.m. to 4:00 p.m.) (TCH Hours: 2 WW)

NJDEP No. 03-02 16 13 2-0

CPWM No. NJWEA-DLGS-922 Tech. 2 Hrs.

NYPE 2; NJPE 2

Moderators: Robert Bendlin, President, Bendlin Incorporated  
Stephen Rozewski, Vice President, Bendlin Incorporated

2:00 p.m. "Innovations in Gas Piston Bubble Mixing of Anaerobic Digesters," Peter Lipert, Jr, General Manager, Claro Environmental Technologies

2:30 p.m. "The Biological Process in Wastewater Treatment and Collection Systems and Reduction of FOG," Jay B. Hill, Product Manager, Bioscience, Inc.

3:00 p.m. "Energy Consumption Reduction in Decanter Centrifuges for Dewatering and Thickening," Ronald A. Kelly, Regional Manager, ANDRITZ Separation, Inc.

3:30 p.m. "Innovative Recessed Impeller Pump Helping Wastewater Plants Save Energy," Paul Nelsen, Sales Manager

# **WEDNESDAY, MAY 18, 2016**

## **Student Session**

(8:30 a.m. to 4:30 p.m.)

Moderators: Steve Yergeau, PhD, Environmental & Resource Management Agent, Rutgers University  
Megan Livak, Coordinator, Marketing & New Business Development, Van Cleef Engineering  
Alyson Lee, Business Development/Project Manager, CSL Services, Inc.

8:30 a.m. Student and YP Orientation, Coffee and Danish

8:50 a.m. Student and YP Meet and Greet

9:15 a.m. Passing of the Gavel, Richard Eustace, President, NJWEA

9:35 a.m. Federation Address, Ralph Exton, 2015-2016 WEF Treasurer

9:45 a.m. Student Scholarship Awards Program, Peter Strom, PhD, Rutgers University and Steven Yergeau, PhD, Rutgers University

10:00 a.m. "Progress of Innovative Projects and Ideas on Both the Young Professional and Professional Levels"

11:00 a.m. Scavenger Hunt/Exhibit Hall Tour

12:00 p.m. Poster Session Set-Up

12:30 p.m. Poster Session Judging

1:30 p.m. Scavenger Hunt/Exhibit Hall Tour

2:00 p.m. Student/YP Program Session Welcome, Richard Eustace, NJWEA President and Ralph Exton, 2015-2016 WEF Treasurer

2:15 p.m. YP and Student Professional Development Workshop

3:10 p.m. Young at Heart Award

3:15 p.m. NJWEA Water Resources Awards for five regional high school science fairs, plaques and cash awards. Science fair entrants capable of entering the WEF Stockholm Junior Water Prize Competition. The NJ State winner will be named and sent to the annual national competition, Tom Meholic, NJWEA Public Education Committee Chair, WEF/SJWP: NJ State Organizer

4:00 p.m. Poster Competition Awards, Peter Strom, PhD, Rutgers University, Steve Yergeau, PhD, Rutgers University, and Chris Urchrin, PhD, PE, Rutgers University

4:15 p.m. Closing Remarks, Alyson Lee, Business Development/Project Manager, CSL Services, Inc. and Megan Livak, Coordinator, Marketing & New Business Development, Van Cleef Engineering

## **Pipeline Assessment & Certification Program - Day 2**

(9:00 a.m. – 3:30 p.m., See page 17)

## **Maintenance Workshop**

(9:00 a.m. to 4:00 p.m.) (TCH Hours: 5 W&WW)

NJDEP No. 03-02 16 14 3-0

CPWM No. NJWEA-DLGS-923 Tech. 5 Hrs.

Moderators: Roman Wisniewski, Plant Maintenance Manager, Joint Meeting of Essex and Union Counties  
Joel Altman, Assistant Maintenance Manager, Joint Meeting of Essex and Union Counties

9:00 a.m. "Cost-Effective Control of Trash, Floatables and Solids," Walter C. Trnka, Fresh Creek Technologies

9:45 a.m. "Mixer Design and Selection for Wastewater," Joseph Yelpe, Sales Engineer, Process Equipment Sales and Services, Inc.

10:30 a.m. "Selecting and Maintaining Chemical Tanks," Ray Varila, Snyder Tanks

11:15 a.m. "Chemical Piping Solutions," Rick Siberine, Business Development Manager, Asahi America  
BREAK

12:00 p.m. "Reduce Maintenance Costs Through Lubrication," Cathy Wilson, PE, Reliability Technology Manager, Sunair Co.

2:00 p.m. "Flow Meters," Chris Garaffa, Sales Engineer, PCS Pumps

3:20 p.m. "The Basics of Circuit Breaker Panels," Roman Wisniewski, Maintenance Manager, Joint Meeting of Essex and Union Counties

## **Plenary Session**

(9:15 a.m. to 12:00 p.m.) (TCH Hours: 1 W&WW)

NJDEP No. 03-02 16 15 3-0

CPWM No. NJWEA-DLGS-924 Gov. 1 Hrs.

Moderator: Richard Eustace, NJWEA  
Thomas Amidon, Principal Water Resources Scientist, Kleinfelder

9:15 a.m. Passing of the Gavel, Richard Eustace, President, NJWEA

9:35 a.m. "Federation Address," Ralph Exton, 2015-2016 WEF Treasurer

9:45 a.m. "Student Scholarship Awards Program," Peter Strom, PhD, NJWEA Scholarship Committee Chair, Dept. of Environmental Sciences, Rutgers University and Steven Yergeau, PhD, Environmental and Resource Management Agent, Rutgers University

10:00 a.m. "One Hundred Years of Wastewater Collection Treatment and Disposal Practices in New Jersey"  
Moderator: Jerome A. Harris, P.E., CME Associates  
Treatment Processes: Dr. Peter Strom, Professor of Environmental Science, Rutgers University  
Collection Systems: Louis Lambe, Superintendent of Line Operations, Passaic Valley Sewerage Commission  
Biosolids: Joseph Bonaccorso, Project Manager, CME Associates

11:00 a.m. Keynote Address by NJDEP Commissioner Martin or Designee

11:30 a.m. Judith A. Enck, Regional Administrator or Designee, USEPA Region 2

11:45 a.m. Q&A Session with Commissioner Martin and Administrator Enck  
People who have questions for Commissioner Martin or Administrator Enck are encouraged to contact Tom Amidon ([TAmidon@Kleinfelder.com](mailto:TAmidon@Kleinfelder.com)) to reserve the opportunity to ask it or to have it asked anonymously during the Q&A session.

## **Professional Engineer's Program**

(1:00 p.m. to 4:00 p.m.) (TCH Hours: 3 W&WW)

NJDEP No. 03-02 16 16 3-0

CPWM No. NJWEA-DLGS-925 Tech. 3 Hrs.

NYPE 3; NJPE 3

Moderators: Manuel Ponte, PE, Principal Engineer, R3M Engineering Inc.  
Thomas A. Laustsen, PE, BCEE, Associate, CDM Smith  
Colin Ferguson, PE, Project Manager, Kleinfelder

1:00 p.m. "SRVSA's Storm Control Treatment Facility - A Novel Solution to SSOs," James F. Cosgrove, Jr., PE, Vice President/Principal, Kleinfelder and Ronald Anastasio, PE, Executive Director, Somerset Raritan Valley Sewerage Authority

1:30 p.m. "A Novel Test for Measurement of Microbial Induced Corrosion (MIC) in a Wastewater Collection System," Joost Goossens, Applications Engineer, Evoqua Water Technologies and John Clark, Sanitation District No. 1

2:00 p.m. "Physical Model of Wet Well Facilitates a Cost Effective Pump Capacity Increase," John N. Rogers, PE, BCEE, Associate, CDM Smith

2:30 p.m. "Practical Application of NFPA 820: Standard for Fire Protection in Wastewater Treatment and Collection Facilities," James J. Panetti, PE, Partner, Keystone Engineering Group, Inc.

3:00 p.m. "Sewer Flow Meters, from Ancient Rome to Buck Rogers," Jeff Cantwell, Mid Atlantic Manager, Flow Assessment Services, LLC

3:30 p.m. "Clearing the Way for Progress," Fletcher Platt, Jr, PE, BCEE, Senior Project manager, Gannett Fleming

## **Watershed Management**

(2:00 p.m. to 4:30 p.m.)

NJDEP No. 03-02 16 20 3-0 (TCH Hours: 2.5 WW)

CPWM No. NJWEA-DLGS-929 Tech. 2.5 Hrs.

NYPE 1; NJPE 2

Moderators: William J. Muszynski, PE, Water Resource Management Branch Manager, Delaware River Basin Commission  
Amy L. Shallcross, PE, Operations Supervisor, Delaware River Basin Commission

2:00 p.m. "NJDEP -Water Quality Management Plan Requirements," Coleen Kokas, Director at Office of Water Resource Management Coordination, NJDEP

2:30 p.m. "The Importance of Municipal/State Coordination in the Protection of Water Quality," Casey Ezyske, Assistant Resource Management Specialist, NJ Highlands Council

3:00 p.m. "Philadelphia: One Water Approach Starts with Source Water Protection," Kelly Anderson, Manager, Source Water Protection, Philadelphia Water Department

3:30 p.m. "Long-Term Implementation of Complex TMDLs: State 2 TMDLs for PCBs for the Delaware Estuary," Thomas J. Fikslin, Manager, Modeling, Monitoring and Assessment Branch, Delaware River Basin Commission

4:00 p.m. Upgrading the Frenchtown WWTP: Small Plant with Significant Challenges," Victor R. Gillardi III, Licensed Operator, Frenchtown Borough and Timothy Bradley, PE, Vice President, Kleinfelder

## **Ethics Considerations for Engineers**

(4:30 p.m. to 6:30 p.m.)

NJDEP No. 03-08 11 16 3-0 (TCH Hours: 2 W&WW)

CPWM No. NJWEA-DLGS-608 Ethics 2 Hrs.

NJPE 2

Moderator: Manuel Ponte, PE, Principal Engineer, R3M Engineering, Inc.

Instructor: Albert J. Capuzzi, PE, Jacobs Engineering Group  
The presentation will review these principles of ethical conduct:

1. Hold paramount the safety, health and welfare of the public
2. Perform services only in areas of their competence
3. Issue public statements only in an objective and truthful manner.
4. Act for each employer or client as faithful agents or trustees
5. Avoid deceptive acts

6. Conduct themselves honorably, responsibly, ethically and lawfully so as to enhance the honor, reputation and usefulness of the profession

Specific rules of conduct and professional obligations for ethical behavior in each of six areas will be reviewed as well. We will review sound ethical decision making tools and where to "go for help" in specific situations. A series of case studies will provide examples of ethical and unethical decision making in specific situations. The presentation will also provide an overview of the New Jersey statutes and regulations for Professional Engineers and will discuss the recent impact of the Corrupt Practices Act on engineers.

## **Industrial Wastewater Management**

(1:00 p.m. to 4:00 p.m.)

NJDEP No. 03-02 16 17 2-0 (TCH Hours: 3 WW)

CPWM No. NJWEA-DLGS-926 Tech.: 3 Hrs.

NYPE 2; NJPE 3

Moderators: John Schneekloth, PE, Vice President, Hatch Mott MacDonald  
Pat McFarland, Assoc. Dir. Watershed Operations, Bristol-Myers Squibb

- 1:00 p.m. "USEPA Regulatory Updates to NPDES Program - Proposed Rules and New Regulations Impacting Industrial and Municipal Sectors," Virginia Wong, Acting Chief, Monitoring Operations Section, United States Environmental Protection Agency
- 1:30 p.m. "NJDEP Pretreatment and Residuals Program Updates," Nancy Kempel, Section Chief, Bureau of Pretreatment and Residuals, DWQ, New Jersey Department of Environmental Protection
- 2:00 p.m. "Technology Evaluation for COD and TDS Reduction in Leachate," Jurek Potoczka, PhD, PE, Vice President, Hatch Mott MacDonald
- 2:30 p.m. "Beverage Filtration: Focus on Microbreweries," Christian Garabaya, Product Manager - Headworks and Screens, Parkson Corporation
- 3:00 p.m. "Real World THM Compliance with an Ozone + BAC System," Louis LeBrun, PE, Vice President and Tara Lamoureaux, EIT Water Resource Engineer, Pinnacle Ozone Solutions
- 3:30 p.m. "Introduction and the Importance of Reuse/Recycle Water and the Use of Defined Substrate Technology for the Detection of Indicator Bacteria for Reuse Water," Gil Dichter, Worldwide Technical Support Manager Water, IDEXX Laboratories

## **Issues of Emerging Concern**

(1:00 p.m. to 5:00 p.m.)

NJDEP No. 03-02 16 18 2-0 (TCH Hours: 4 W&WW)

CPWM No. NJWEA-DLGS-927 Tech.: 4 Hrs.

NYPE 4; NJPE 4

Moderators: Gary Lohse, PE, Regional Sales Manager, DeNora Water Technologies  
Vijesh Karatt Vellatt, PE, LEED AP, Greeley and Hansen LLC

- 1:00 p.m. "1,2 Dichlorobenzene Pretreatment via Phosphoric Acid-Mediated Fenton Reagent," Mark D. Richmond, Manufacturing Tech Senior Engineer, The Chemours Company
- 1:30 p.m. "Increased Capacity with Lower Energy Consumption in a WWTP Using Newly Developed High Efficiency Aeration Control Valves – A Case

Study," Tilo Stall, PhD, Business Development Manager, Binder Group, AG

- 2:00 p.m. "The Utility Risk Equation: An Interactive Case Study," Corinne Tuozzoli, PE, Senior Security Consultant and Project Environmental Engineer, Arcadis CE, Inc.
- 2:30 p.m. "Definition, Assessment and Control of Odor at Wastewater Treatments," Sade Olapade-Olaopa, PE, Senior Project Manager, Hatch Mott MacDonald and John Scheri, Principal Project Manager, Hatch Mott MacDonald
- 3:00 p.m. "Technology Evaluation for COD and TDS Reduction in Leachate," Jurek Potoczka, PE, Vice President Process Design, Hatch Mott MacDonald
- 3:30 p.m. "The Intelligent Network: Wastewater, CHP and Smart Analysis Meet the Microgrid," Steve Tarollo, PE, Engineering Manager, Black and Veatch and Pam Kenel, PE, Project Manager, Black and Veatch
- 4:00 p.m. "Ribs – They're Not Just for Dinner," Scott Hoffman, PE, Project Manager, CABE, a Duffield Associates Company and Tom Dwyer, PG, Project Manager, Maser Consulting PA
- 4:30 p.m. "Recovering Heat Makes Small Scale Water Reuse a Power Producer," Paul Knowles, PhD, Director of Technical Operations, Natural Systems Utilities, Eugenio Giraldo, PhD, Natural Systems Utilities, Zach Gallagher, PE, LEED, Natural Systems Utilities and Michael Gubbins, PE, Natural Systems Utilities
- Alternate 1: "Pottstown Borough Authority: the Report Cards are In," Stephen Marcino, Project Manager, JMT Engineers, Inc.
- Alternate 2: "How Data and Collection System Profiling Provide Transformational Change for Collections System Operations and Asset Management," Jay Boyd, Chief Operating Officer, Hadronex, Inc. dba SmartCover© Systems

## **Instrumentation and Controls Session**

(1:00 p.m. to 5:00 p.m.)

NJDEP No. 03-02 16 19 3-0 (TCH Hours: 4 WW)

CPWM No. NJWEA-DLGS-928 Tech.: 4 Hrs.

NYPE 4; NJPE 4

- Moderator: Michael Roy, PE, Authority Engineer, Old Bridge MUA
- 1:00 p.m. "The Basics of Process Control Instrumentation," Philip Schwartz, P.E., President, Keystone Engineering Group, Inc.
- 2:00 P.M. "Benefits of Variable Frequency Drives for Small Pumping Systems," Randall Bard, Market Manager Pre-Engineered Systems, Xylem-Flygt
- 3:00 p.m. "Instrumenting the Nutrient Removal Process: Bus-Based Digital Analysis Systems," Jay Mershon, Senior Product Business Manager, Endress & Hauser
- 4:00 p.m. "Today's SCADA," Michael Samuel, PE, President, R3M Engineering, Stephanie DeCotiis, Project Engineer, R3M Engineering and Kevin Davis, Process Control Engineer, Middlesex County Utilities Authority



**Incident Command's System - ICS  
100/NIMS 700 - The Basics of the  
Incident Command System**

(2:00 p.m. to 5:00 p.m.)

NJDEP No. 03-01 09 35 3-0 (TCH Hours: 3 W&WW)

CPWM No. NJWEA-DLGS-464 Mgmt. 3 Hrs.

Moderator/Instructor: Harry E. Smith III, CSM – Deputy Emergency Management Coordinator for Cinnaminson Township, Deputy Chief of Palmyra Ambulance Association, Station 809, Battalion Chief of Cinnaminson Fire Dept., Station 202, President of Certified Health and Safety Services, LLC Required by the NJ Governors' Executive Order #50 for all Directors, Superintendents, and Supervisors to comply with the Presidents Homeland Security Directive No. 5 (HSPD-5).

**Exhibit Area Presentation – Ultraviolet  
Wastewater Disinfection**

(2:15 p.m. to 3:15 p.m.)

NJDEP No. 03-02 16 21 2-0 (TCH Hours: 1 WW)

CPWM No. NJWEA-DLGS-930 Tech. 1 Hr.

Moderator: Stephen Rozewski, Vice President, Bendlin Incorporated

Speaker: Joseph Murro, UV System Consultant, Aquaazul

**Peddlers Challenge – Exhibit Area**

(3:30 p.m. to 4:15 p.m.) See page 4 for more information

**Sludge Bowl - Karaoke at the Mountain  
Bar in Bally's Wild, Wild West Casino (see  
page 18)**

(10:00 p.m. to ???)

**THURSDAY, MAY 19, 2016**

**Industrial Wastewater Operator  
Workshop**

(9:00 a.m. to 4:00 p.m.) (TCH Hours: 5 WW)

NJDEP No. 03-02 16 27 2-0

CPWM No. NJWEA-DLGS-936 Tech. 5 Hrs.

Moderators: Lance P. Salerno, Senior Utility Performance Consultant, Brown and Caldwell  
John Schneekloth, Vice President, Hatch Mott MacDonald

9:00 a.m. "Criticality Analysis: The Cornerstone of a Successful Asset Management Program," Tacoma Zach, PEng, CRL, Uberlytics

10:00 a.m. "Using Criticality in an Asset Management Program to Mitigate Risk," Marc W. Yarlott, PE, CMRP, CRL, CLS, Project Manager, Veolia North America

11:00 a.m. BREAK

1:00 p.m. "Redefining Biomass Health and Viability in Activated Sludge Systems," Michael H. Foster, CET, Principal Consultant, Environmental Business Specialists, LLC

2:00 p.m. "Chemical Oxidation," Christian Hjembo, N-3, Engineer Operations, Brown and Caldwell

2:30 p.m. "Using Data Management Systems to Guide Best Way Wastewater Operations Practices," Elisa Tess Harden, Industrial Wastewater O&M Manager, Brown and Caldwell

3:00 p.m. "Removal of Heavy Metals in Industrial Wastewaters," John Lewyta, PE, BCEE, Resident Engineer CSO-NC-3, D&B Engineers and Architects, P.C.

**Safety Workshop - Spring 2016**

(8:00 a.m. to 4:00 p.m.) (TCH Hours: 5.5 Safety)

NJDEP No. 03-02 16 25 3-1

CPWM No. NJWEA-DLGS-934 Tech. 5.5 Hrs.

Moderators: Harry Smith III, CSM – Owner of Certified Health and Safety Services, LLC, NJWEA Safety Committee Chairman

Harry Ladisheff, Operator, Bayshore Regional Sewerage Authority and NJWEA Safety Committee Vice Chairman

Rick Stafford, Safety Officer, Joint Meeting of Essex and Union Counties

Ken Hrasdzira, Retired, Passaic Valley Water Commission

8:00 a.m. Personal Protective Equipment (PPE): "Proper Selection and Use," John P. McShane, Sales Representative, Pendergas Safety Products We will discuss and review how to select and properly use PPE in our work areas based on the task or job at hand, followed by a show and tell session with actual equipment.

9:15 a.m. BREAK

9:30 a.m. Fall Protection: "The ABCD's of Fall Protection", Frank Dykas, Representative of Safety Today Fall injuries and deaths are in the OSHA top four. We will discuss, review and demonstrate the proper wear of safety harnesses, lanyards, self-retracting life lines and other related equipment.

11:00 a.m. Lunch and Exhibits

1:00 p.m. OSHA Requirements for Confined Space Entry: "Are we really doing it right?" OSHA Requirements for Confined Space Entry, Cecile M. Bacola, Sales Manager and OSHA Outreach Trainer for MSA the Safety Company This seminar will enlighten you and give you a better understanding of the requirements involving testing the atmosphere, proper classification, permits, training, covering both construction and general industry. This makes a difference when contractors are on site rehabbing and rebuilding our infrastructure.

2:30 p.m. BREAK

2:45 p.m. OSHA Requirements for Confined Space Entry (Continued)

4:00 p.m. PROGRAM ENDS

**Nutrient Removal**

(8:00 a.m. to 11:00 a.m.) (TCH Hours: 3 WW)

NJDEP No. 03-02 16 22 2-0

CPWM No. NJWEA-DLGS-931 Tech. 3 Hrs.

NYPE 3; NJPE 3

Moderators: Sundaram Solai, PE, Greeley and Hansen LLC  
Gabrielle Moore, PE, AECOM

8:00 a.m. "Achieving Revised Ammonia Criteria Effluent Quality: Design and Operation," David J.

- Kinnear, PhD, PE, Process Engineer, HDR Engineering, Inc., Erika Bailey, J.B. Neethling and Mario Benisch, HDR Engineering, Inc.
- 8:35 a.m. "No Cost Nitrogen Removal at the Bay Park STP," John Fortin, PE, Senior Associate, Hazen and Sawyer and Joseph Davenport, PE, Eng. Unit Head, Water/Wastewater, Nassau County DPW
- 9:10 a.m. "Process Improvements at Woodstown WWTP in Anticipation of NJPDES Permit Restrictions," Danielle Farrell, PE, Project Engineer, Remington & Vernick Engineers and Monica Bell, PE, Project Engineer, Remington & Vernick Engineers
- 9:45 a.m. "See It Before You Try It – Process Modeling for BNR Facilities," Gary M. Grey, PE, Sr. Professional Associate, HDR Engineering, Inc.
- 10:25 a.m. "Reducing the Costs of Nutrient Management Nitrification Induction at NYC's 26<sup>th</sup> Ward," Jay Lovelass, PE, BCEE, Associate, Greeley and Hansen LLC, Dimitrios Katehis, PhD, PE, Greeley and Hansen LLC and William Seduto, Bureau of Wastewater Treatment, NYCDEP
- Alternate: "Retrofitting on Existing Wastewater Treatment Plant to Achieve Nitrogen Removal via Nitrification/Denitrification," Christopher J. Pizarro, PE, Engineer (IV), Hatch, Mott MacDonald and David Klemm, PE, Vice President, Hatch Mott MacDonald

### **Collection System Operators Workshop**

- (9:00 a.m. to 4:00 p.m.) (TCH Hours: 5 WW)  
 NJDEP No. 03-02 16 28 2-0  
 CPWM No. NJWEA-DLGS-937 Tech. 5 Hrs.  
 Moderators: Basil D'Armiento, Operations Specialist, CDM Smith  
 Robert Snyder, Assistant Operations Manager, PARSA
- 9:00 a.m. "Better Water and Wastewater Projects through Operator Participation," Jerry Haimowitz, PE, BSEE, Licensed S4, C4, T4, W4 Operator
- 9:40 a.m. "Succession Planning for Operators," Claire Baldwin, PhD, Associate, CDM Smith
- 10:20 a.m. "Pump Shaft Sealing Strategies and Flush Water Reduction Opportunities," Jeff Weingartner, Northeast OEM Business Development Manager, AW Chesterton
- 11:00 a.m. EXHIBIT AREA/BREAK
- 1:00 p.m. "This One's For You," William T. Sucholdolski, PE, Engineering Manager, Ocean County Utilities Authority
- 1:35 p.m. "An Alternative Approach to Sewer Renewal," Keith J. McHale, PE, I&I Project Manager, Environment One Corporation
- 2:10 p.m. "Using Acoustic Inspection to Prioritize Sewer Cleaning," George Selembo, PhD, PE, CEO, InfoSense, Inc.
- 2:45 p.m. "Working Smarter Against Inflow and Infiltration," Bruce Kosenky, Regional Sales Manager, EnviroSight
- 3:20 p.m. "Westlake Interceptor Lining Project: Big Initial Repair Savings Prove Long-Term Success," Tom Perry, Director of Marketing, Multi Utilities Ventures
- 4:00 p.m. CERTIFICATE DISTRIBUTION

### **CSOs: Developing a Green LTCP**

- Part I:  
 NJDEP No. 03-02 16 23 2-0 (TCH Hours: 3 WW)  
 CPWM No. NJWEA-DLGS-932 Tech.: 3 Hrs.  
 NYPE 2; NJPE 3
- Part II  
 NJDEP No. 03-02 16 24 2-0 (TCH Hours 3 WW)  
 CPWM No. NJWEA-DLGS-933 Tech. 3 Hrs.  
 NYPE 3; NJPE 3  
 (Part I: 8:00 a.m. to 11:00 a.m.)  
 Moderators: Jerry J. Notte, PE, Vice President - Water Market, CH2M Hill  
 Daniel Eagan, PE, Project Manager, JBL Electric, Inc.
- 8:00 a.m. "NJ CSO Program Update," Pilar Patterson, Chief - Bureau of Surface Water Permitting, NJDEP
- 8:30 a.m. "How to Get the Most Out of Your System Characterization," William McMillin, CH2M
- 9:00 a.m. "Field Testing and Demonstration of a CSO High Rate Filtration Treatment Process," Masa Takamatsu, Water Resources Engineer, HDR
- 9:30 a.m. "Pilot Studies for CSO Treatment Using Cloth Media Filtration Technology," Mark P. Hughes, Product Manager, Aqua-Aerobic Systems, Inc.
- 10:00 a.m. "Taking a New CSO Treatment Technology from Concept to 100 mgd Reality," Jim Fitzpatrick, Senior Process Engineer, Black & Veatch
- 10:30 p.m. "The NJ CSO Group Baseline Compliance Monitoring Program," Francisco Brihante, HDR
- (Part II: 1:00 p.m. – 4:00 p.m.)  
 Moderators: Sheldon Lipke, PE, Principal Consultant, SJL Consulting  
 Marques Eley, PE, Engineer, Passaic Valley Sewerage Commission
- 1:00 p.m. "Against the Tide: CSO Outfall and Regulator Flow Monitoring," Jeff Cantwell, Mid-Atlantic Manager, Flow Assessment Services
- 1:30 p.m. "What is a Sewer System Model and What is it Good For?" Cindy Huang, PhD, Water Resources Engineer, CDM Smith
- 2:00 p.m. "The Big Green Apple – New York City Green Infrastructure," Virginia Roach, PE, Vice President, CDM Smith
- 2:30 p.m. "Sampling and Modeling as Part of CSO Long-Term Control Planning for Northern NJ Municipalities," Richard R. Isleib, PE, Senior Project Engineer, HDR
- 3:00 p.m. "Preliminary Results from Large-Scale CSO Pilot in Bayonne, NJ," John Dening, PE, Senior Project Engineer, Hatch Mott MacDonald
- 3:30 p.m. "Using Green Infrastructure to Manage Stormwater and Reduce CSO in NYC," Margot Walker, Director of Capital Planning & Partnerships, New York City Department of Environmental Protection
- Alternate "Assessing the Partitioning and Treatment of Microbial Agents from Combined Sewer Effluent During Wet Weather CSO Flow Monitoring," Alessia Eramo, PhD Student, Rutgers University

## **Joint MABA/NJWEA Biosolids Workshop**

(8:30 a.m. to 4:00 p.m.) (TCH Hours: 5 WW)

NJDEP No. 03-02 16 26 2-0

CPWM No. NJWEA-DLGS-935 Tech. 4 Hrs. Gov.: 1 Hr.

NYPE 4; NJPE 5

Moderators: Tom Lauletta, PE, Wastewater Program Manager, Cape May County Municipal Utilities Authority  
William E. Toffey, Executive Director, Mid-Atlantic Biosolids Association  
Peter Nese, Retired, CH2M Hill  
Lisa Oberreiter, Project Scientist, Passaic Valley Sewerage Commission

8:30 a.m. "Current Regulatory Topics in New Jersey," Tony Pilawski, Section Chief, Bureau of Pretreatment and Residuals, NJDEP

9:00 a.m. "Impact of Orthophosphates on Achievable Dry Cake Solids Concentrations and Polymer Consumption in the Dewatering Process - Test Results from Four Full Scale US Pilot Plants," Gerhard Forstner, President, CNP-Technology Water and Biosolids Corp and Hiroko Yoshida, R&D Engineer, Centrisys Corp.

9:30 a.m. "Optimizing the Performance of Anaerobic Digestion," Mark Greene, PhD, Senior Technical Director, O'Brien & Gere

10:00 a.m. "Regionalized Service for Accepting Organic Wastes, Septage and Sludges," Michael Mecca, Liquid Waste Acceptance Administrator, Passaic Valley Sewerage Commission and Carlos Torres, Liquid Waste Acceptance Lead Inspector, Passaic Valley Sewerage Commission

10:30 a.m. "Forms of Procurement for Innovative Biosolids Technologies Development," Ryan Lamli, Regional Sales Manager, Veolia Water Exhibits and Lunch

1:00 p.m. "From Incinerators to Digesters – The Case for GCUA," David Hillmann, Manager of Operations, Gloucester County Utilities Authority and Danielle Farrelle, Project Engineer, Remington & Vernick

1:30 p.m. "Digestibility Assessment of Potential Feedstocks for Co-Digestion in Anaerobic Digesters – The GCUA Evaluation," Metin Duran, Professor, Villanova University

2:00 p.m. "Thermal Hydrolysis for Expanded Solids Handling Capacity – The HRSD Atlantic Treatment Plant Case," Stephanie Spalding, Project Manager, HDR

2:30 p.m. "Thermal Conversion of Biosolids to Energy and Biochar," Steve Wirtel, PE, Executive Vice President, KORE Infrastructure

3:00 p.m. "How to Maximize Polymer Value for Improved Solids Dewatering," Yong Kim, PhD, Technical Director, UGSI Chemical Feed

3:30 p.m. "Evaluating Biosolids Management Alternatives - Use of the ASCE Envision Rating System for Engineering Decision-Making," Norman Bradley, Principal Engineer, Hazen and Sawyer

## **Manhole And Lateral Assessment and Certification Program**

(9:00 a.m. – 3:30 p.m., See page 17)

## **Exhibit Area Presentation - Process**

### **Screening and Conveying of Screening**

(11:30 a.m. to 12:30 p.m.) (TCH Hours: 1 W&WW)

NJDEP No. 03-02 16 29 3-0

CPWM No. NJWEA-DLGS-938 Tech. 1 Hr.

Moderators: Chuck Royer, Sr. Sales Representative, Dave Heiner Associates, Inc.  
Roseann Pettrow, Sr. Sales Representative, Dave Heiner Associates, Inc.

11:30 a.m. "Process Screening," Scott Hansen, Sales Representative, Dave Heiner Associates, Inc.

12:00 p.m. "Principles of Conveying Plant Process, Jill McCuster, Sr. Sales Representative, Spirac, Inc.

## **Grand Finale**

(6:30 p.m. to ???) Join us at the Annual Grand Finale. This year, your Conference Committee invites you to attend: "THE GODFATHER'S MESHUGGENER WEDDING," a Jewish/Italian Comedy Wedding Extravaganza presented by the New York Dinner Theater. In this hilarious interactive show you'll be attending one of the wackiest weddings ever. Don Borleone's daughter has decided to tie the knot with Bernie Goldberg. This show is run with all the trimmings of a real wedding and the audience plays the role of wedding guests as the characters mingle throughout the tables and treat everyone as "Part of the Family".

At the Godfather's Meshuggener Wedding, you'll dance and laugh until the tears roll. Check your conference schedule and be sure to be there for one great night of music, dancing and audience participation.

## **FRIDAY, MAY 20, 2016**

Closing Session/Breakfast Buffet  
(9:00 a.m.)

## **New Jersey and New York Professional Engineers**

- The New Jersey Water Environment Association (NJWEA) is an approved provider by the New Jersey State Board of Professional Engineers and Land Surveyors and the New York State Board for Engineering and Land Surveying for offering continuing professional competency credits (CPC) for Professional Engineers that are licensed in those states. The NJWEA believes that several of the courses we offer will meet the respective Board's requirements for CPC because of the review process and administrative controls we have that each proposed course must go through before being offered to Professional Engineers. These courses include "NJPE" and/or "NYPE" in the course description. However, all issues that may arise on the acceptability of a course will be between the individual and the Board. The Professional Engineer should retain the program book and his/her certificates received after the completion of the technical sessions issued by the NJWEA. The NJWEA will continue to maintain records of the courses offered and the names of attendees satisfactorily completing the courses.

## **Pennsylvania Professional Engineers** - The

New Jersey Water Environment Association (NJWEA) currently offers continuing professional competency credits (CPCC) for Professional Engineers that are licensed in New Jersey and/or New York. We believe these and many of our other courses also meet the CPCC requirements of a Professional Engineer that is licensed in Pennsylvania. The Pennsylvania State Board of Professional Engineers, Land Surveyors and Geologists (the Board) does not approve courses in advance. However, certain technical sessions provided by the NJWEA should meet the Board's requirements for CPCC if the Professional Engineer retains the program book and his/her certificates received after the completion of the technical sessions issued by the NJWEA. However, all issues that may arise on the acceptability of a course will be between the individual and the Board. NJWEA will continue to maintain records of the courses offered and the names of attendees satisfactorily completing the courses.

## **NJWEA PROGRAM COMMITTEE ROSTER**

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