NYWEA
LEADING THE WAY IN
WATER QUALITY MANAGEMENT

June 6-8, 2022
Marriott Syracuse Downtown

Spring Technical Conference & Exhibition

The Year of the JEDI.
Justice, Equity, Diversity and Inclusion.
Celebrating Our Water Heroes

Whova web link:
https://whova.com/portal/webapp/nywea_202106/

Whova link download:
https://whova.com/portal/nywea_202106/
(Invitation code is nywea22spring)
(Make sure you use same email that you registered with.)

Speaker Evaluation: In the Whova app or on Web,
click on Agenda; Title of Presentation; ‘Rate Session’ or
in the Whova app, click on Evaluation in the ‘home’ screen; Title of Presentation; Rate

Program On-line: https://tinyurl.com/ProgramSP22

ON-SITE PROGRAM
SUPPLYING EQUIPMENT SOLUTIONS & SERVICE FOR WATER & WASTEWATER

**Headworks**
- Grit Removal
- Screening

**Clarification**

**Biological**
- Activated Sludge
- RBCs
- Trickling Filter
- MBBR
- MBR
- IFAS

**Tertiary Treatment**
- BNR
- Disc Filters
- Microfiltration
- Rapid Sand Filtration

**Disinfection**
- UV
- Chlorination
- Chemical Feed
- Ozone

**Pumps and Pumping Systems**

**Odor Control**

**Controls and Integration**

**Service** – We are your partners for the long term

“OUR HANDSHAKE IS OUR COMMITMENT TO YOU.”

ATTITUDE MAKES THE DIFFERENCE
### Table of Contents

- Opening Session: The Year of the JEDI. Justice, Equity, Diversity and Inclusion ........................................... 9
- Session 1: Resiliency ................................................................................................................................. 9
- Session 2: Operators’ Forum .................................................................................................................. 11
- Session 3: Sustainability & Energy Conservation ....................................................................................... 13
- Session 4: Collection Systems/CSO/Wet Weather ..................................................................................... 15
- Session 5: Mobile Session ......................................................................................................................... 17
- Session 6: Resource Recovery/Research & Innovation .............................................................................. 17
- Session 7: Asset Management .................................................................................................................. 19
- Session 8: Manufacturers Forum .............................................................................................................. 21
- Session 9: Residuals & Biosolids ................................................................................................................ 25
- Session 10: Water Resource Recovery ..................................................................................................... 27

- Advertisers ................................................................................................................................................. 38
- At-A-Glance .................................................................................................................................................. 4-6
- Exhibitors .................................................................................................................................................... 30-34
- NYWEA Board of Directors and Committees .......................................................................................... 37
- Operations Challenge .................................................................................................................................. 28-29
- Operations Challenge Awards Reception and Banquet .............................................................................. 28
- Registration Desk Hours .......................................................................................................................... 3
- Select Society of Sanitary Sludge Shovelers (5S) Induction Ceremony ......................................................... 28
- Speaker Contact Information ..................................................................................................................... 36
- Sponsors ...................................................................................................................................................... 38
- Tuesday Tour of Onondaga County Department of Water Environment Protection (OCDWEP) ............... 13
- Upcoming Training and Meetings .............................................................................................................. Inside Back Cover
- Whova Official Event App .......................................................................................................................... 18
- Young Professionals Event ........................................................................................................................ 23, 35

### Registration Desk Hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, June 5</td>
<td>12:00 pm-4:30 pm</td>
</tr>
<tr>
<td>Monday, June 6</td>
<td>7:45 am-4:00 pm</td>
</tr>
<tr>
<td>Tuesday, June 7</td>
<td>8:00 am-4:00 pm</td>
</tr>
<tr>
<td>Wednesday, June 8</td>
<td>8:30 am-11:30 am</td>
</tr>
</tbody>
</table>
### Opening Session 2022 Spring Technical Conference & Exhibition

#### The Year of the JEDI. Justice, Equity, Diversity and Inclusion

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am-9:00 am</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Welcome! President Khristopher Dodson</td>
</tr>
<tr>
<td>9:15 am</td>
<td>William Brizzell, Jr., Director, Division of Engineering, NYS Environmental Facilities Corp.</td>
</tr>
<tr>
<td>9:30 am</td>
<td>Climate Leadership &amp; Community Protection Act, Jane Gajwani, NYCDEP</td>
</tr>
<tr>
<td>9:45 am</td>
<td>Keynote Address</td>
</tr>
<tr>
<td></td>
<td>Introduction by Steve Sanders</td>
</tr>
<tr>
<td></td>
<td>Lisa Stone, Chief People and Inclusion Officer, DC Water</td>
</tr>
<tr>
<td>10:15 am</td>
<td>Introduction InFLOW Scholars</td>
</tr>
<tr>
<td>10:30 am-11:30 am</td>
<td>JEDI Training: May the (Work) Force Be with You</td>
</tr>
<tr>
<td></td>
<td>Panelists</td>
</tr>
<tr>
<td></td>
<td>Lisa Stone, DC Water</td>
</tr>
<tr>
<td></td>
<td>Dr. Sim Covington, Finger Lakes Community College</td>
</tr>
<tr>
<td></td>
<td>Steve Sanders, ETC, SUNY Morrisville</td>
</tr>
<tr>
<td>11:45 am</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

#### 1:00 pm-4:00 pm

**Session 1: Resiliency**

1. Onondaga County’s Reorganization and Workforce Redevelopment Vision
2. NYWEA, WRRFs and Environmental Justice (EJ)

2:00 pm-3:00 pm Exhibitor Networking Break

1.3 Community-Equitable Climate Action Planning
1.4 Resilient New York Flood Mitigation Initiative

#### 1:00 pm-3:00 pm

**Session 2: Operators’ Forum**

2.1 Operators’ Forum Panel 1
2.2 Operators’ Forum Panel 2

3:15 pm Bus departs hotel for Tour
3:30 pm-5:00 pm Tour of Onondaga County Department of Water Environment Protection
Sign up at registration desk ($25).

5:00 pm Buried Acorn Brewing, following Tour (transportation provided)
### Session 3: Sustainability & Energy Conservation

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am-12:00 pm</td>
<td><strong>Session 3: Sustainability &amp; Energy Conservation</strong></td>
</tr>
<tr>
<td>3.1</td>
<td>What Should My Municipality Be Doing to Address Climate Legislation?</td>
</tr>
<tr>
<td>3.2</td>
<td>The Role of WRRFs in the Global Climate Challenge</td>
</tr>
</tbody>
</table>

**10:00 am-11:00 am Exhibitor Networking Break/Operations Challenge Competition**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3</td>
<td>Greenhouse Gas Emissions of WWTPs: An Overview and A Case Study</td>
</tr>
<tr>
<td>3.4</td>
<td>Diversity, Equity and Inclusion (DEI): Catalyzing Change</td>
</tr>
</tbody>
</table>

**12:00 pm Utility O&M Committee (Keuka Room, Ground Level)**

### Session 4: Collection Systems/CSO/Wet Weather

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am-12:00 pm</td>
<td><strong>Session 4: Collection Systems/CSO/Wet Weather</strong></td>
</tr>
<tr>
<td>4.1</td>
<td>Heavy Metal Transport in Stormwater Biofiltration Mesocosms</td>
</tr>
<tr>
<td>4.2</td>
<td>A Collaborative Approach to TMDL Development</td>
</tr>
</tbody>
</table>

**10:00 am-11:00 am Exhibitor Networking Break/Operations Challenge Competition**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3.4</td>
<td>MnDOT's I35W Stormwater Storage Facility – Design and Constructing</td>
</tr>
<tr>
<td></td>
<td>Hydraulic Resiliency in a CMGC Procurement Environment</td>
</tr>
</tbody>
</table>

### Session 5: Mobile Session

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am-10:00 am</td>
<td><strong>Session 5: Mobile Session</strong></td>
</tr>
<tr>
<td>5.1</td>
<td>Polymer Activation, Polymer Dose, Cleaning Polymer Units (Booth 36)</td>
</tr>
<tr>
<td>5.2</td>
<td>Fundamentals of Underground Utility Locating (Booth 24)</td>
</tr>
<tr>
<td>5.3</td>
<td>The Benefits and Simplicity of Peristaltic Metering Pumps (Booth 10)</td>
</tr>
</tbody>
</table>

**10:00 am-11:00 am Exhibitor Networking Break/Operations Challenge Competition**

### Session 6: Resource Recovery/Research & Innovation

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 pm-4:30 pm</td>
<td><strong>Session 6: Resource Recovery/Research &amp; Innovation</strong></td>
</tr>
<tr>
<td>6.1</td>
<td>Ethics</td>
</tr>
<tr>
<td>6.2</td>
<td>New Primary Bio-Filter Achieves High-Rate Treatment for Wet Weather Inflows</td>
</tr>
</tbody>
</table>

**2:30 pm-3:30 pm Exhibitor Networking Break/Operations Challenge Competition**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.3</td>
<td>Extreme Makeover: Digester Edition</td>
</tr>
<tr>
<td>6.4</td>
<td>Destructive Treatment Technologies for Per- and Polyfluoroalkyl Substances (PFAS)</td>
</tr>
</tbody>
</table>
### Session 7: Asset Management

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 pm-4:30 pm</td>
<td>7.1 Life after the Amended Consent Judgment (ACJ): How WEP Will Use Data Driven Asset Management to Fuel Its Capital Improvement Plan (CIP)</td>
</tr>
<tr>
<td></td>
<td>7.2 Investigating Seepage and Subsidence at the Bird Island Wastewater Treatment Plant</td>
</tr>
</tbody>
</table>

### Session 8: Manufacturers Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 pm-4:30 pm</td>
<td>8.1 P-Removal and Reuse Processes</td>
</tr>
<tr>
<td></td>
<td>8.2 MBR Technology and Applications</td>
</tr>
<tr>
<td>2:30 pm-3:30 pm</td>
<td>Exhibitor Networking Break/Operations Challenge Competition</td>
</tr>
<tr>
<td></td>
<td>8.3 Standards and Guidelines for Biogas Systems Design</td>
</tr>
<tr>
<td></td>
<td>8.4 Enhanced Cake Dryness and Granulation via Efficient Energy Evaporation of Surface Moisture Using Combined Centrifugal Dewatering and Spray Drying Techniques</td>
</tr>
</tbody>
</table>

### Session 9: Residuals & Biosolids

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am-11:30 am</td>
<td>9.1 Unattended Dryer Operation Using Remote Monitoring and SCADA Improves Operation and Performance</td>
</tr>
<tr>
<td></td>
<td>9.2 Coagulant/Polymer 101: Fundamentals of Sedimentation and Dewatering</td>
</tr>
<tr>
<td>10:00 am</td>
<td>Wastewater Operator Certification Governance Council (Keuka Room, Ground Level)</td>
</tr>
<tr>
<td>10:00 am-10:30 am</td>
<td>Coffee Break</td>
</tr>
<tr>
<td></td>
<td>9.3 A Case Study of New York Sludge Dryer Installations</td>
</tr>
<tr>
<td></td>
<td>9.3 Fifty Ways to Kill a Digester</td>
</tr>
</tbody>
</table>

### Session 10: Water Resource Recovery

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am-11:30 am</td>
<td>10.1 Put It in a Pipe! Closed Vessel UV Advantages</td>
</tr>
<tr>
<td></td>
<td>10.2 Village of Medina: Navigating and Financing Emergency Repairs and New Disinfection Facility Construction</td>
</tr>
<tr>
<td>10:00 am-10:30 am</td>
<td>Coffee Break</td>
</tr>
<tr>
<td></td>
<td>10.3 Potential for Carbon Credits from Biosolids Land Application</td>
</tr>
<tr>
<td></td>
<td>10.4 An Innovative Wastewater Treatment Technology: Facultative Membrane Bioreactor (FMBR)</td>
</tr>
</tbody>
</table>
Managing today’s environment for a better tomorrow

We view every project with an eye to the future. Sustainable, cost-effective engineering and environmental solutions have been the focal point of our legacy since our inception. Wastewater or water supply, environmental remediation or civil engineering, D&B lives by an unwavering commitment to total customer satisfaction.

D&B Engineers and Architects

516-364-9890 | DB-ENG.COM
Facing Challenges. Providing Solutions.
<table>
<thead>
<tr>
<th>Midway Crossing</th>
<th>Ronkonkoma Hub Pumping Station</th>
<th>Clean &amp; Green Biosolids Processing Facility</th>
<th>Bergen Point WWTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTA-LIRR Third Track</td>
<td>Hofstra University Science &amp; Innovation Ctr</td>
<td>Greater Atlantic Beach Water Reclamation</td>
<td>NCDPW Barnes Ave SSO Correction</td>
</tr>
<tr>
<td>Courthouse Commons Pump Station</td>
<td>Museum of American Armor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garvies Point</td>
<td>Morrelly Homeland Security</td>
<td>Nassau Coliseum</td>
<td>Ritz Carlton North Hills</td>
</tr>
</tbody>
</table>

**Cameron Engineering**

Water and Wastewater  
Emergency Preparedness & Resiliency  
Stormwater Management  
Solid Waste  
Planning & Environmental Analysis  
Sustainable Design & Resource Management  
Green Building & LEED Design  
GIS  
Traffic & Transportation  
Structural  
Mechanical & Electrical  
Security & CCTV  
Civil  
Energy Services  
Site Development & Landscape Architecture  
Construction Management

---

**Celebrating**  
**Over 35 Years of Excellence in Planning & Engineering**

Woodbury, NY  
New York, NY  
White Plains, NY

www.cameronengineering.com
**2022 Spring Meeting**

**The Year of the JEDI. Justice, Equity, Diversity and Inclusion**

<table>
<thead>
<tr>
<th>Contact Hours</th>
<th>8:30 am-9:00 am</th>
<th>1.0 Engineer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>Breakfast</td>
<td></td>
</tr>
<tr>
<td>9:15 am</td>
<td>Opening Session and Welcome, President Khristopher Dodson (Persian Terrace)</td>
<td></td>
</tr>
<tr>
<td>9:30 am</td>
<td>William Brizzell, Jr., Director, Division of Engineering, NYS Environmental Facilities Corporation</td>
<td></td>
</tr>
<tr>
<td>9:45 am</td>
<td>Climate Leadership &amp; Community Protection Act (CLCPA), Jane Gajwani, NYCDEP (Invited)</td>
<td></td>
</tr>
<tr>
<td>10:15 am</td>
<td>Keynote Address with introduction by Steve Sanders, Environmental Training Center at SUNY Morrisville</td>
<td></td>
</tr>
<tr>
<td>10:45 am</td>
<td>Lunch</td>
<td></td>
</tr>
</tbody>
</table>

**Monday, June 6, 2022**

**Session 1: Resiliency (Conesus Room, Ground Level)**

<table>
<thead>
<tr>
<th>Contact Hours</th>
<th>1:00 pm</th>
<th>1.0 Engineer*</th>
<th>1.0 Wastewater†</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1:00 pm</td>
<td>Onondaga County’s Reorganization and Workforce Redevelopment Vision†</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shannon Harty, Dave Snyder, Onondaga County Water Environment Protection</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The focus of this presentation will be outlining the County’s approach to responding and adapting to the multitude of challenges that all sewer utilities are currently facing. Our structural assets are aging, the silver tsunami is flushing out our workforce, and climate change means more and more extreme storms that overwhelm our system capacity. We have to change the way we do business as a sewer utility. Status quo and “that’s the way we’ve always done it” are no longer acceptable. Sustainability, innovation and resiliency must be an everyday part of our dialogue and decision making processes. Pushing back on old assumptions and adapting technology is a must. The challenge is developing a workforce that has the fortitude and skills to navigate the journey ahead. There’s no finish line to our new mission – we are playing the infinite game against ourselves.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1:30 pm</td>
<td>NYWEA, WRRFs and Environmental Justice (EJ)†</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pam Elardo, Deputy Commissioner, NYC Department of Environmental Protection</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WRRF daily operations and long-term trajectories are uniquely aligned with the success of environmental justice (EJ) principles. Our utilities have the opportunity to vastly improve EJ outcomes for the communities we serve. By applying the EJ lens, we can reframe our public presence in local communities: moving away from negative historical views as neighborhood burdens, to respected community assets, stewards and good neighbors. We can make great strides in design, infrastructure consolidation, modern technology adaptation, odor control, employment (green jobs), and environmental educational opportunities.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exhibitor Networking Break</th>
<th>2:00 pm-3:00 pm</th>
<th>Lisa Stone, DC Water, Chief People and Inclusion Officer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khristopher Dodson</td>
<td>NYWEA President</td>
<td></td>
</tr>
<tr>
<td>Steve Sanders</td>
<td>ETC, SUNY Morrisville</td>
<td></td>
</tr>
<tr>
<td>Dr. Sim Covington</td>
<td>Finger Lakes Community College, Canandaigua</td>
<td></td>
</tr>
<tr>
<td>Lisa Stone</td>
<td>DC Water Chief People and Inclusion Officer</td>
<td></td>
</tr>
<tr>
<td>Lisa Stone</td>
<td>DC Water Chief People and Inclusion Officer</td>
<td></td>
</tr>
<tr>
<td>Steve Sanders</td>
<td>ETC, SUNY Morrisville</td>
<td></td>
</tr>
</tbody>
</table>
Since 1960, Vaughan Company has been manufacturing the toughest no-clog pumps in the USA. Our 3rd and 4th generation family-owned and operated company builds cutting edge products that are built to last and keep things flowing smoothly.

Choose the unmatched reliability of Vaughan. Ask about our free trial program and on-site demos.

888-249-CHOP | ChopperPumps.com

EXPEDITED DELIVERY | ELIMINATES COMMUNATORS | EXTERNALLY ADJUSTABLE CLEARANCES
3:00 pm  
**Community-Equitable Climate Action Planning***
1.3 Walt Walker, Sharon Kang, Maithilee Das, John Lenti, Greeley and Hansen
The presentation will provide innovative approaches for a community-inclusive regional Climate Action Plan (CAP) in a social value/water equity lens. We will examine how climate action planning can benefit community and climate resiliency for a utility/municipality region, and will provide utilities example steps that can be taken to identify a climate action path that is tailored to their local conditions and goals, and community needs.

3:30 pm  
**Resilient New York Flood Mitigation Initiative***
1.4 Shaun Gannon, Kadir Goz, Ramboll
In 2018, New York State announced the Resilient NY Program in response to devastating flooding in communities across the State. A total of 48 high-priority flood prone watersheds were selected based on several factors, such as frequency and severity of flooding and ice jams, extent of previous flood damage, and susceptibility to future flooding and ice-jam formations. For each completed study, Ramboll conducted stakeholder engagement meetings with the local community to discuss historical flooding and locations of high risk areas. Proposed condition models were used to simulate potential and ecologically sustainable flood mitigation strategies and were evaluated based on reduction in water surface elevations within the H&H model simulations.

**Monday, June 6, 2022**

**Session 2: Operators’ Forum (Canandaigua, Ground Level)**

2.0 Wastewater

**Operator Panel Discussions**

2.1 **Operators’ Forum Panel 1**
Collection System Operators from across New York will discuss post-design and post-construction collection system capital project changes and work-arounds that they have been involved with and offer lessons learned from an operations, maintenance, design and regulatory audiences viewpoint.

Joel Renzoni, Buffalo Sewer Authority  
Marty Hennessey, Onondaga County Department of Water Environment Protection  
Don Estes, Onondaga County Department of Water Environment Protection

2.2 **Operators’ Forum Panel 2**
Water Resource Recovery Facility Operators from across New York will discuss post-design and post-construction WRRF capital project changes and work-arounds that they have been involved with and offer lessons learned for an operations, maintenance, design and regulatory audiences viewpoint.

Justin Slentz, Monroe County Department of Environmental Services  
Michelle Hess, City of Canandaigua  
Dean Ellsworth, Onondaga County Department of Water Environment Protection  
Andy Whitcomb, Onondaga County Department of Water Environment Protection  
Tyler Masick, Albany County Water Purification District
INNOVATIVE PUMPING AND CONTROL SOLUTIONS FOR WATER MOVEMENT & MANAGEMENT

The system-based pumping and control solutions of our parent company, Metropolitan Industries, are used in some of the world’s largest and most prominent cities, buildings, and structures. Each custom engineered packaged system is designed and prefabricated to adhere to each project’s unique specifications.

Ask how sludge dryer technology can be a part of energy efficiency projects.

WRING THE SAVINGS OUT OF YOUR CURRENT BIOSOLIDS DISPOSAL OPERATION

wendel
architecture engineering energy efficiency construction management
877.293.6335 wendelcompanies.com
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:15 pm</td>
<td>Bus departs hotel for Tour</td>
</tr>
<tr>
<td>3:30 pm-5:00 pm</td>
<td>Tour of Onondaga County Department of Water Environment Protection</td>
</tr>
<tr>
<td></td>
<td><strong>At Registration Desk, $25</strong></td>
</tr>
<tr>
<td></td>
<td><strong>SIGN UP At Registration Desk, $25</strong></td>
</tr>
<tr>
<td></td>
<td>The Onondaga County Department of Water Environment Protection (OCDWEP)</td>
</tr>
<tr>
<td></td>
<td>like all water resource recovery facilities, has a big job to do operating,</td>
</tr>
<tr>
<td></td>
<td>maintaining and protecting the system that collects used water and sewage</td>
</tr>
<tr>
<td></td>
<td>generated within the Onondaga County Consolidated Sewer District.</td>
</tr>
<tr>
<td></td>
<td>Processing over 33 billion gallons of wastewater each year, OCDWEP</td>
</tr>
<tr>
<td></td>
<td>operates around the clock cleaning the wastewater of homes, businesses</td>
</tr>
<tr>
<td></td>
<td>and industries before it returns to the environment. Onondaga County has</td>
</tr>
<tr>
<td></td>
<td>2,100 miles of sewers. End to end, it would stretch from Syracuse to</td>
</tr>
<tr>
<td></td>
<td>Yellowstone National Park! OCDWEP provides service to roughly 346,000</td>
</tr>
<tr>
<td></td>
<td>residents, that’s nearly 75% of the county’s population. Come and tour</td>
</tr>
<tr>
<td></td>
<td>this amazing facility!</td>
</tr>
<tr>
<td></td>
<td>The Tour will be followed by a trip to Buried Acorn Brewing (across the</td>
</tr>
<tr>
<td></td>
<td>street from OCDWEP). Transportation will be provided.</td>
</tr>
<tr>
<td>7:30 am-8:30 am</td>
<td>Breakfast</td>
</tr>
<tr>
<td><strong>Tuesday, June 7, 2022</strong></td>
<td><strong>Session 3: Sustainability &amp; Energy Conservation (Conesus Room, Ground Level)</strong></td>
</tr>
</tbody>
</table>

**Contact Hours**

**Moderators**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>What Should My Municipality Be Doing to Address Climate Legislation?</td>
</tr>
<tr>
<td>9:30 am</td>
<td>The Role of WRRFs in the Global Climate Challenge</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Greenhouse Gas Emissions of WWTPs: An Overview and A Case Study</td>
</tr>
</tbody>
</table>

**Exhibitor Networking Break/Operations Challenge Competition (Finger Lakes Ballroom)**

Join our Exhibitors and learn more as our elite operators compete against the clock in Collection Systems, Laboratory, Process Control, Maintenance and Safety events!
Millions of People Depend on Harper Control Solutions . . .

What Can We Do For You?

203-964-1900 | HarperValves.com | 855-364-4100 | 1010 Washington Blvd | Stamford CT 06901

Experts from concept to operations

- Drinking Water
- Funding & Finance
- SCADA
- Wastewater & Reuse

Barton & Loguidice

PROVIDING QUALITY WATER ENGINEERING SERVICES FOR MORE THAN 60 YEARS

Water is essential. Our sustainable management strategies and end-to-end services ensure unparalleled accountability, efficiency, and affordability.

Trust B&L’s multidisciplined, team-based approach for your water resource challenges.

Learn more at bartonandloguidice.com

The Experience to Listen
The Power to Solve.
11:30 am Diversity, Equity and Inclusion (DEI): Catalyzing Change
3.4 Katie Porter, Brown and Caldwell
This presentation will highlight best practices and discuss challenges and lessons learned from agencies who are at varying stages of creating Diversity, Equity, and Inclusion (DEI) and Environmental Justice (EJ) programs in the water industry.

Tuesday, June 7, 2022
Session 4: Collection Systems/CSO/Wet Weather (Canandaigua, Ground Level)
Contact Hours 2.0 Engineer  2.0 Wastewater
Moderators Kathryn Serra, C.T. Male Associates; Peter Frick, ADS Environmental Services LLC
9:00 am Demonstrating the Effect of Vegetation and Media Interactions on Nitrogen, Phosphorous and Heavy Metal Transport in Stormwater Biofiltration Mesocosms
Douglas Daley, Shi Guang, SUNY College of Environmental Science and Forestry
Organic matter, vegetation status and hydraulic residence time affects treatment of aqueous N, P, Cu and Zn in stormwater biofiltration mesocosms. Removal rates for nitrate (2% to 123%) and ammonium (77% to 218%) were highly variable, contrasted with removal of phosphorous (68% to 88%), copper (68% to 86%) and zinc (94% to 99%). Hydraulic retention time and organic matter had significant effects, while vegetation did not. Designers facing multiple treatment objectives may find it challenging to meet all objectives equally using a single-step unit process.

9:30 am A Collaborative Approach to TMDL Development
4.2 Andy Thuman, HDR, Inc.
This presentation will show the benefits of collaboratively developing watershed management plans or TMDLs for nutrient induced eutrophication impairments. Beyond developing a technical approach to correlating nutrient loads to effects (i.e., modeling), a transparent process is required to achieve stakeholder acceptance of the results and needed watershed management efforts. An open and interactive process with stakeholder involvement can provide for successful outcomes that are supported by all affected entities.

10:00 am-11:00 am Exhibitor Networking Break/Operations Challenge Competition
Join our Exhibitors and learn more as our elite operators compete against the clock in Collection Systems, Laboratory, Process Control, Maintenance and Safety events!

11:00 am MnDOT’s I35W Stormwater Storage Facility –
4.3.4 Design and Constructing Hydraulic Resiliency in a CMGC Procurement Environment
AJ McGinn, Brierley Associates
A segment of Interstate 35W (I-35W) near 42nd Street, located in Minneapolis, Minnesota, experiences flooding during intense storm events. Flooding caused by a combination of runoff from the upstream watershed and backflow through the existing downstream stormwater tunnel system creates safety issues for vehicular traffic. The Minnesota Department of Transportation (MnDOT) evaluated several stormwater storage facility (SSF) concepts to mitigate flooding for events up to a 10-percent annual exceedance probability.
You Deserve the Cutter Cartridge® Advantage

TASKMASTER® TWIN SHAFT GRINDERS
with unique CUTTER CARTRIDGE® technology set the standard for reliability and performance!
Each Cutter Cartridge combines six individual cutters and spacers into a rugged, one-piece element. This greatly enhances unit strength, reduces maintenance and eliminates the need for cutter stack retightening.

To learn more about this and all of our unique grinding, screening, septage receiving and washing technologies, call us or visit us online today.

You Deserve the Cutter Cartridge® Advantage

FLEET OFFERS the finest pump systems and controls, along with the services of our engineers who meticulously design new systems, upgrades, and retrofits.

FLEET NOW COVERS ALL NY

MUNICIPAL AND INDUSTRIAL
We have extensive experience in the municipal marketplace, serving local and state agencies with quality equipment for wastewater and water treatment.
We also offer pumps and controls to industries across New York, manufacturing goods and services that range from food & beverage to biotech & life sciences to Cleantech & renewable energy.

WE SERVICE EVERYTHING WE SELL
Please contact us to learn about our equipment and services:

Mike Hoyt
Sales Engineer
Mobile: 518-417-9270
mhoyt@gafleet.com

Elaine Yarbrough
Sales Engineer
Mobile: 845-600-6905
eyarbrough@gafleet.com

NYWEA 2022 SPRING TECHNICAL CONFERENCE & EXHIBITION
Tuesday, June 7, 2022

Session 5: Mobile Session (Finger Lakes Ballroom)

Contact Hours
1.0 Engineer  1.0 Wastewater

Moderators
Dick Pope, Hazen and Sawyer; Mike Kessler, Town of Tonawanda

9:00 am-9:20 am  
Polymer Activation, Polymer Dose, Cleaning Polymer Units  
Stephen Wardell, Clean Waters, Inc.  
Booth 36  
This short demonstration will show the importance of internally cleaning a polymer blending unit. Polymer will form semi-hard deposits inside of a blending unit which slows mixing energy and reduces the polymer's effectiveness. By regularly cleaning, you will reduce overall polymer consumption and have fewer problems with the unit itself. We will demonstrate on a small polymer system.

9:20 am-9:40 am  
Fundamentals of Underground Utility Locating  
James Flint, Eastcom Associates, Inc.  
Booth 24  
This hands-on presentation is oriented towards everyday applications. It is for technicians, engineers, supervisors, foremen involved in locating underground utilities who will benefit by learning how locators work and why they behave in certain ways in real world applications. We will cover the basic theory behind electromagnetic locating, understand the different functions and options offered by today’s instruments, and learn how to maximize their use in the field. Regardless of equipment manufacturers used, we will give a better understanding of locate basics and troubleshooting techniques including frequency and grounding applications. Discussions will include options available for locating non-metallic lines – such as acoustic methods and ground penetrating radar. We will also cover requirements under NYS Code Rule 753 for utility operators.

9:40 am-10:00 am  
The Benefits and Simplicity of Peristaltic Metering Pumps  
Mark Koester, Koester Associates  
Booth 10  
Peristaltic metering pumps play an important role in our industry for feeding various chemicals, including sodium hypochlorite, sodium bisulfite, coagulants, etc. They provide some of the highest accuracies, which equates to less chemical usage and cost savings. This mobile session will focus on operational principals of peristaltic metering pumps, as well as the different tube technologies and advancements in procedures for tube replacement.

Please stop by our booth for a hands-on demonstration of the Qdos metering pump technology in a ‘plug & play’ skid-mounted arrangement, including demonstration on removal and re-installation of the contained pump head cartridge assembly.

10:00 am-11:00 am  
Exhibitor Networking Break/Operations Challenge Competition (Finger Lakes Ballroom)  
Join our Exhibitors and learn more as our elite operators compete against the clock in Collection Systems, Laboratory, Process Control, Maintenance and Safety events!

Tuesday, June 7, 2022

Session 6: Resource Recovery/Research & Innovation (Hemlock, Ground Level)

Contact Hours
2.0 Engineer  1.0 Wastewater  1.5 Water*  

Moderators
Vatche Minassian, HDR, Inc; Seth Jensen, City of Auburn  
Ethics*  
John Salvagno, Arcadis

1:30 pm  
6.1.2  
This presentation will cover the various industry guidelines and case studies on engineering ethics. Best practices relating to the legal, engineering and contractor obligations during the completion of a project will be described. Examples of historic engineering disasters will be used to highlight relevant cause-effect relationships.
Let’s redefine what’s possible for water

Xylem Vue brings together our full portfolio of digital solutions to solve your most pressing water challenges along your digital journey and deliver transformative outcomes for your communities - faster and more affordably.

Let’s Solve Water. Let’s See How.

Get to know Xylem Vue
visit xylem.com/XylemVue
2:30 pm-3:30 pm | Exhibitor Networking Break/Operations Challenge Competition
Join our Exhibitors and learn more as our elite operators compete against the clock in Collection Systems, Laboratory, Process Control, Maintenance and Safety events!

3:30 pm | Extreme Makeover: Digester Edition
6.3
Ariel Judd, Jason Davenport, GHD Consulting Services, Inc.,
James Thayer, Onondaga County Department of Water Environment Protection
The Syracuse Metro WWTP’s anaerobic digestion facility operated throughout comprehensive rehabilitation that included replacement of all major equipment. This required significant planning and coordination between contractors, operators, regulators and the engineering team. Planning included careful consideration of classified spaces. To enable hot work, sequencing included temporary gas mixing and waste gas burner facilities. The team worked through unforeseen supply chain and pandemic-related challenges to substantially deliver the complex scope within the planned schedule and budgets.

4:00 pm | Destructive Treatment Technologies for Per- and Polyfluoroalkyl Substances (PFAS)
6.4
Kyle Hay, Katie Porter, Rosa Yu, Allegra da Silva, Jeffrey Jackson, Brown and Caldwell
This presentation will highlight the progress on the efficacy and commercialization of emerging PFAS-destructive treatment technologies for liquids and solids in the water industry.

Tuesday, June 7, 2022
Session 7: Asset Management (Conesus Room, Ground Level)

Contact Hours
2.0 Engineer  2.0 Wastewater  1.0 Water

Moderators
Brian Skidmore, Barton & Loguidice; Sana Barakat, Arcadis

1:30 pm Life after the Amended Consent Judgment (ACJ):
7.1 How WEP Will Use Data Driven Asset Management to Fuel Its Capital Improvement Plan (CIP)
Jim Thayer, Shannon Harty, Onondaga County Department of Water Environment Protection
This presentation’s focus will describe what comes next for Water Environment Protection’s (WEP) after 20 plus years of the ACJ. WEP’s CIP is valued at over $600 million for the next six years. It is critical that WEP’s Asset Management Program is positioned to provide WEP with the data driven capital planning needed to guide the investment and planning of a diverse portfolio of infrastructure.

2:00 pm Investigating Seepage and Subsidence at the Bird Island Wastewater Treatment Plant
7.2
Tim Blake, Buffalo Sewer Authority; Zachary Monge, Jacobs; Roberta Gaiek, Buffalo Sewer Authority; Ehab Shatnawi, Jacobs
An investigation was launched in 2021 to investigate the seepage and subsidence issues and provide recommendations to address them in the long-term. Specifically, the following information was gathered/investigated:
• Groundwater levels across the WWTP campus over the course of six months.
• Confirmation of water source (i.e. groundwater, leaking wastewater conduit, river, etc.).
• Water quality analysis of seepage water.
• Precipitation trends in the local Buffalo area and across the Great Lakes.

2:30 pm-3:30 pm Exhibitor Networking Break/Operations Challenge Competition
Join our Exhibitors and learn more as our elite operators compete against the clock in Collection Systems, Laboratory, Process Control, Maintenance and Safety events!
We have been providing high quality products and exceptional service to our customers for the past 100 years. Whether you need that “just in time” delivery or comprehensive bench testing services we are there to satisfy your needs.

- Manufacturer of Sodium Hypochlorite
- Water & Wastewater Chemicals and Services
- ANSI 60 / NSF Certified Products by UL
- NACD Verified

518-434-8101 • Sales@surpasschemical.com
www.surpasschemical.com

Reach our Water/Wastewater Manager @ tim.clayton@surpasschemical.com to set up a lunch and learn for Engineering PDH credit

We’re in love with New York’s water.

From cities to suburbs and communities beyond, we thrive on designing and building resilient, sustainable infrastructure to ensure a healthy water environment and a bright future for the Empire State. Put our passion for New York’s most valuable resource to work for your community.

Manhattan | New Windsor | Woodbury
gannettfleming.com
3:30 pm | Advanced Digital Technology for Asset Performance and Reliability Optimization
Richard Loeffler, Xylem; David Dolphin, Elmodis AI
Wastewater treatment and collection systems are complex and consist of a variety of rotating equipment. This equipment requires consistent maintenance to ensure the systems provide required levels of environmental protection. Maintenance and work performed before equipment failure is less costly and increases system uptime. However, predicting failures in these types of systems and devices is a tricky endeavor. This presentation will demonstrate how real-time monitoring of various signals combined with enhanced machine learning can provide real-time insights into asset performance, including potential problems, before they arise.

4:00 pm | The Transformational Role of Water Infrastructure in the Built Environment®
Gary Lapera, Jacobs
“A world without oil is possible – a world without water is not.”
Water Infrastructure is not simply a mono-functional provision of designated services, it is a life-sustaining resource that affects the planet’s survival. Given the critical importance of its place in a larger ecosystem, we must consider its ability to be a catalyst for socio-economic welfare, urbanization and sustainability.

Tuesday, June 7, 2022
Session 8: Manufacturers Forum (Canandaigua, Ground Level)
Contact Hours
2.0 Engineer  2.0 Wastewater  0.5 Water®
Moderators
Sara Urbanczyk, Elaine Yarbrough, GA Fleet Associates
1:30 pm | Advancements in Disk Filtration Technology – Untapped Potential for BNR, CSO, MBR, P-Removal and Reuse Processes
Rob Wiley, Nuove Energie
This presentation will discuss how Stainless Steel Disk Filtration technology greatly expands the application window of filtration throughout wastewater facilities, offering an unprecedented range of potential process, footprint, and operational improvements to consider.

2:00 pm | MBR Technology and Applications
David J. Silverman, PSI Process; Paul Clayton, H2O Innovation
Membrane Bioreactors (MBR) are a well-established technology for wastewater treatment, with the advantages of small footprint, a high level of TSS and phosphorus removal, and flexible operation; however, MBRs also have gotten an undeserved reputation as capital-intensive, complicated proprietary systems prone to issues with biofouling and high costs for chemical cleaning. The fact is that as the technology advances, not only have the costs come down, but materials have improved. This presentation will describe technological trends and product innovations that are reducing costs while increasing the range of applications for this exciting technology, and how it is impacting the water/wastewater industry.

2:30 pm-3:30 pm | Exhibitor Networking Break/Operations Challenge Competition
Join our Exhibitors and learn more as our elite operators compete against the clock in Collection Systems, Laboratory, Process Control, Maintenance and Safety events!
EDR provides water/wastewater engineering solutions to municipalities, agencies, districts, authorities, and corporations to address their water needs.

Since our founding in 1979, EDR has provided high-quality, cost-effective planning, design, and construction solutions that have enhanced projects and benefited our clients and their communities.

edrdpc.com

Syracuse, NY • Rochester, NY • Albany, NY

GP Jager Inc.

Your Source for Water & Wastewater Equipment

Our mission is to ensure your complete satisfaction with our manufacturers’ products and services. Representing 65 high-quality manufacturers of water and wastewater treatment equipment in New York and New Jersey, we know that our projects must be well-engineered and competitively priced. We’re proud to offer virtually every biological process, filtration, clarification, disinfection, chemical feed and mechanical equipment available today.

(800) 986-1994 www.jagerinc.com
### Standards and Guidelines for Biogas Systems Design
8.3
Jim Groman, Varec Biogas, an Ovivo division

The presentation will cover proper sizing and system design for digester gas handling systems, including a discussion of relevant regulations, codes and design guidelines. Best practices and special design considerations based on the latest WEF MOP, ANSI standards and Ten States Standards will be included.

### Enhanced Cake Dryness and Granulation via Efficient Energy Evaporation of Surface Moisture
8.4
Using Combined Centrifugal Dewatering and Spray Drying Techniques
James Hanson, GEA Westfalia Separator

A decanter centrifuge discharges dewatered cake solids at a speed in the range of 100 miles/hour. In 1992, a theory was developed whereby the particles are extremely fine (less than 1 mm) and discreet, as they are discharged. If these small particles were allowed to fly freely additional surface moisture would be evaporated. The theory was tested over a period of 20+ years and resulted in a technology combining a decanter centrifuge with a spray drying system. This presentation will cover the theory and results of full scale testing conducted at locations in Germany, Denmark, China and the United Kingdom.

### Select Society of Sanitary Sludge Shovelers Induction Ceremony
(Finger Lakes Ballroom)

### YP Social Event
The Fitz, 321 South Salina Street, Syracuse (cellar bar below Oh My Darling restaurant)

---

**Operations Challenge – Don’t miss this event!**
(Finger Lakes Ballroom)

Events will take place throughout the day on **Tuesday, June 7**.

See pages 28-29 for details!

How do operators and technicians overcome flooding, a sewer collapse, process failure, and other emergencies?

Do you ever wonder what transpires behind the scenes during the operation of a water resource recovery facility? Instead of continuing to take these unsung specialists for granted, learn how the best wastewater collection and treatment personnel in New York state display their skills at the Operations Challenge!

In the Challenge, six teams compete to earn the highest score in five different events. Each team includes four members and often a coach as well. Each event is designed to test the diverse skills required for the operation and maintenance of water resource recovery facilities, collection systems and laboratories. The five events are Collections Systems, Laboratory, Process Control, Maintenance and Safety. Winners from this competition go on to compete at WEFTEC in New Orleans.
Multiple Hearth Furnace Services
A Subsidiary of Industrial Furnace Company

- Leading experts in Multiple Hearth Furnace design, construction, maintenance, operations and rehabilitation.
- Founded and family-owned as a refractory installation company in 1948, specializing in the field of municipal waste incineration.
- Project experience in 47 U.S. states and internationally, offices in New York and Georgia allow fast mobilization.
- Full in-house engineering staff.
- Excellent relationships with several top engineering firms specializing in Fluid Beds and MHF Technologies.
- Designs completed with 3-D models and 2-D drawings (SolidWorks and AutoCAD).
- Multi-craft tradesmen complete OSHA, MSHA, HAZWOPER training, and IFCO safety training courses to ensure safe working environments.

Full Service Industrial Furnace Provider

585-288-2070
40 Humboldt Street, Rochester, NY 14609
www.industrialfurnace.com

If you’re trusted to protect public health or the environment, we can help.

A OneWater future, today.

At Jacobs, we think differently about water. We view all water as a valuable resource and work with clients to tackle the issues that impact communities: climate, safety, reliability, flooding and scarcity.

Let us show you how our OneWater approach provides our clients and communities the foundations they need to flourish and grow.

Brian Gackstatter, PE, Vice President
860.416.3445 | brian.gackstatter@jacobs.com
Jacobs proudly supports the New York Water Environment Association
Wednesday, June 8, 2022

Session 9: Residuals & Biosolids (Hemlock, Ground Level)

2.0 Engineer  2.0 Wastewater

Moderators Jamie Johnson, AECOM; Josh Marko, Village of Minoa

9:00 am  Unattended Dryer Operation Using Remote Monitoring and SCADA Improves Operation and Performance
Richard Treleven, BCR Environmental

In 2018, the Wisconsin Dells-Lake Delton Wastewater Treatment Facility installed and commissioned an indirect, screw-type dryer and ancillary equipment to dry its biosolids to Class-A requirements. In addition to other features unique to indirect dryers, design considerations include provision of strict safety features to meet NFPA requirements as well as design for automatic operation of hopper feed, dryer feed and product storage. Also, the control and SCADA system includes the hardware and internet-communication capability to permit remote-monitoring and data logging by the manufacturer as well as the capability to page out alarms and provide full process emulation using an internet-connected tablet computer for the operating staff. These features permitted the plant to operate on a 24-hour basis with an on-call operator instead of on-site, full-time coverage by operators.

9:30 am  Coagulant/Polymer 101: Fundamentals of Sedimentation and Dewatering
Patrick Gallagher, Yong Kim, UGSI Solutions, Inc.

Due to increasing polymer cost in wastewater treatment, optimizing polymer usage became more important than ever. Effect of dilution water on polymer solution quality is presented with focus on utilizing reclaimed water, while implementation of the concepts of two-stage mixing and sufficient residence time into polymer system design is illustrated with laboratory data. Two case studies at municipal treatment plants demonstrated that well-designed polymer systems can significantly improve the performance of the dewatering process.

10:00 am-10:30 am  Coffee Break

10:30 am  A Case Study of New York Sludge Dryer Installations
Brian Sibiga, Wendel

This presentation will be a case study of a biosolids dryer design and startup project that started commissioning in November 2021 with an anticipated completion date of March 2022. We will discuss design and start up considerations and challenges during design, startup and operations.

11:00 am  Fifty Ways to Kill a Digester
Yasmine Boudhaouia-Meehan, Matthew J. Williams, WesTech Engineering, Inc.

Digesters are not only helping reduce biosolids in plants, but are now becoming energy sources for the plant and their communities. Getting into operation and maintaining operation can be tricky for some plants and engineers. This presentation will go through some of the failures that WesTech has seen over their 40 years of providing anaerobic digestion equipment and how to avoid failures in the future.
HYPERCLASSIC®
MIXER Evolution 7
The Industry Standard in Water and Wastewater Treatment

With the latest version of the HYPERCLASSIC® Mixer evolution 7, the seventh, completely revised and revolutionary version of the classic hyperboloid mixer is now available. The extraordinary design and smart assembly enable a reduction in energy consumption of up to 30%. This provides a huge energy saving potential for your water and wastewater treatment plant!

Scan the code and learn more about the development and functionality of the HYPERCLASSIC® Mixer evolution 7.

www.invent-et.com

Protecting our natural environment and water resources while powering our world for future generations

Learn more on www.arcadis.com

CDM Smith is proud to sponsor the Year of the JEDI and celebrate all of our water heroes with NYWEA during 2022 – our 75th anniversary. 1947-2022

Learn why cultural diversity makes a difference at CDM Smith. Visit: cdmsmith.com/en/About-Us/Diversity

For more information contact:
William J. Nylic III, PE, PMP
NylicWJ@cdmsmith.com | 516-730-3950
Wednesday, June 8, 2022

Session 10: Water Resource Recovery *(Canandaigua, Ground Level)*

**Contact Hours**
2.0 Engineer  2.0 Wastewater

**Moderators**
Mike Manning, Ramboll; Eric Cushing, Village of Minoa

**9:00 am**
Put It in a Pipe! Closed Vessel UV Advantages
10.1
Joe Ciurlino, Patrick Bollman, Evoqua Water Technologies

Closed vessel UV can offer unique advantages over traditional open channel UV. This session will review how closed vessel UV technology offers installation advantages to consulting engineers, as well as maintenance and safety advantages to operators. Easily retrofit existing infrastructure or minimize your disinfection footprint in areas where space is limited.

**9:30 am**
Village of Medina: Navigating and Financing Emergency Repairs and New Disinfection Facility Construction
10.2
Ryan Laninga, Wendel

The Village of Medina was forced to declare a public health emergency following the failure of four of their six rotating biological contactors (RBCs) – their main secondary system biological treatment process. In addition, after a full technical review of their SPDES permit, the Village needed to add disinfection facilities. This presentation outlines steps taken to secure grant funding and financing, how they expeditiously replaced the RBCs, and construction challenges undertaken to restore the WWTP to full treatment capacity.

**10:00 am-10:30 am**
Coffee Break

**10:30 am**
Potential for Carbon Credits from Biosolids Land Application
10.3
Bill Brower, Brown and Caldwell

Land-applied biosolids have recognized climate benefits from avoided landfill methane emissions, avoided inorganic fertilizer production, reduced pumped irrigation and carbon sequestration. As carbon markets and other green financial tools become more established and mature, there is an interest from wastewater utilities, contractors and landowners in monetizing some of that value. This presentation will summarize the potential avenues for obtaining carbon credits or other financial incentives for the climate benefits of land applying biosolids. Attendees will understand the different climate funding opportunities currently available and others that could be forthcoming, as well as the roadblocks to their implementation.

**11:00 am**
An Innovative Wastewater Treatment Technology: Facultative Membrane Bioreactor (FMBR)
10.4
Huiping Li, Yinhong Cheng, Liao Zhimin, Zhou Rongzhong; Zhou Jialin, Jiangxi JDL Environmental Protection Co., Ltd.

FMBR technology is an innovative, high efficiency and economical Membrane bioreactor (MBR) technology. Its main innovative points are: 1. Short process flow, remove C, N, P simultaneously in the same reaction tank; and, 2. Significantly reduce the disposal of organic sludge. It has the characteristics of low investment, fast construction, less footprint, simple management, low carbon emission and is environmental-friendly. It efficiently solves two major problems of conventional wastewater treatment: long treatment process flow and the “Not in My Backyard” problem.
NYWEA Operations Challenge

Sunday

June 5, 2022

1:00 pm-3:00 pm
Equipment Set-up (Finger Lakes Ballroom)

Monday

June 6, 2022

9:00 am-10:00 am
Team and Judges Meeting (Hemlock, Ground Level)

10:00 am-11:00 am
Process Control Event (Canandaigua, Ground Level)

Tuesday

June 7, 2022 (Finger Lakes Ballroom)

9:00 am-3:30 pm
Operations Challenge Competition

4:30 pm-7:00 pm
Operations Challenge Awards Reception and Banquet

Join in the excitement! Operators from across New York State compete for the right to be champions and compete in the National Competition at WEFTEC in New Orleans in October. The first event kicks off Tuesday at 9:00 am. Awards will be presented at the Awards ceremony that evening. Come and see the best wastewater collection and treatment personnel display their skills.

Collection Systems
Teams will cut out a section of 8" PVC sewer pipe with water flowing through it. A 4" saddle connection with gaskets will be installed on a pre-drilled piece of pipe on a separate stand. Teams will cut the 8" PVC replacement section with the saddle and install the section with flexible repair couplings. The team will also program a Hach AS950 sampler.

Lab Event
Teams will analyze samples representing a normal treatment process for total suspended solids and conductivity/Total Dissolved Solids. They will also calculate a solids mass balance across the treatment system to evaluate the removal efficiency of various treatment trains and other data related to solids.

Process Control Event
The event will consist of two separate activities: A written test similar to what has been used in the past, and operation of treatment plant simulation software provided by Hydromantis.

Pump Maintenance
A utility has been experiencing a multitude of problems at their pump/lift stations due to pumps ragging with “flushable” wipes. A pump trouble alarm was received via the SCADA system at the Operations Control Center. A crew has been dispatched to troubleshoot the alarm. The teams will need to troubleshoot the electrical control panel, troubleshoot and perform routine maintenance on the KSB submersible pump and wet well, and then ultimately restore the pump station back to normal operating condition.

Safety Event Scenario
While a facility crew is working, one of the workers collapses inside a manhole. The coworker is found at the bottom of a (confined space) lift station unconscious. It is suspected that he/she has been overcome with an unknown gas or lack of oxygen due to a worn 4" check valve gasket in the station. The in-plant rescue/repair team is immediately called to the scene. Two members of the team will enter the confined space, rescue the downed worker and repair the check valve.

Each event will be timed separately and all team members will be required to perform one task.
**Teams & Judges**

### New York WEA
**LONG ISLAND CHAPTER**
**Brown Tide**
Jake Miller  
James Behr  
Rob Jentz  
Nick Barresi  
Hector Soto (Coach/Alternate)

### GENESEE CHAPTER
**Genesee Valley Water Recyclers**
Angelo DiNottia  
Jeff Wallace  
Will Monier  
Raphael Santiago  
Joe Amorese (Alternate)  
Tyler Richardson (Coach)

### METROPOLITAN CHAPTER
**Coney Island Sludge Hustlers**
Robert Ferland  
Ray Antenucci  
Robert Ortiz  
Nicholas Sullivan  
Bowery Bay Coyotes  
Anthony Quadrino  
Chris Reyes  
Michael Prats  
Paraminder Mander  
Michael Leone (Alternate)

### CENTRAL CHAPTER
**Mixed Liquors**
Tony Filer  
Michael Burkett  
Brendon Sharon  
Derrick Rawson  
Casey Clark (Alternate)

**Watertown Water Bears**
Angel French  
Seth Foster  
Richard Lacey, Jr.  
Jay Slate  
R. Mark Crandall (Coach)

---

### 2022 Operations Challenge Judge List

<table>
<thead>
<tr>
<th>EVENT</th>
<th>LAB</th>
<th>COLLECTION</th>
<th>PUMP</th>
<th>SAFETY</th>
<th>PROCESS CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinator</td>
<td>Michelle Hess</td>
<td>Joseph Atkins</td>
<td>Kevin McCormick</td>
<td>Steve Reiter</td>
<td>Bill Sedutto</td>
</tr>
<tr>
<td>Judge</td>
<td>Bill Sedutto</td>
<td>Howard Robinson</td>
<td>Dale Grudier</td>
<td>Walter Westhoff</td>
<td>Bob Wither</td>
</tr>
<tr>
<td>Judge</td>
<td>Gary Brown</td>
<td>Dan O'Sullivan</td>
<td>Larry Brincat</td>
<td>Robert Tyndall</td>
<td></td>
</tr>
<tr>
<td>Judge</td>
<td>Justin Slentz</td>
<td>Alan Oates</td>
<td>Eugene Buckley</td>
<td>Jared Lewis</td>
<td></td>
</tr>
<tr>
<td>Judge</td>
<td></td>
<td></td>
<td>Rich Fiedler</td>
<td>Thomas Pfersching</td>
<td></td>
</tr>
</tbody>
</table>

---

**Operations Challenge 2022 Coordinators**

Overall Coordinators: Bill Grandner; Donna Grudier, Village of Northport  
Score Keeping Judge: Bill Sedutto
Exhibitors

Tuesday, June 7, 2022  9:00 am–3:30 pm, Finger Lakes Ballroom & Foyer

Come and meet our Exhibitors and see new products and services!

ADS Environmental Services LLC is a flow service provider and flow meter manufacturer that provides trusted solutions to critical wastewater problems including SSOs, optimized sewer cleaning, CSO monitoring and reporting, I&I, hydraulic modeling support, rainfall measurement, accurate sewer billing, and sewer capacity management. ADS has been the industry leader and innovator for more than 45 years and has performed over 6,000 projects in over 5 billion feet of sewer pipe. pfrick@index.com. www.adsenv.com

AFTEK, Inc. is a premium supplier of separation technologies, equipment and supplies to the process industries of industrial and municipal water and wastewater markets for over 25 years. We are headquartered in Rochester, NY. krustie@earthlink.net. www.aftekfilters.com

BDP Industries/Koester Associates is a leading supplier of dewatering, thickening and composting equipment. The company’s products include Belt Presses, Screw Presses, Gravity Belt Thickeners, Rotary Drum Thickeners, and in-vessel Composting Systems. Dan@bdpindustries.com. www.bdpindustries.com

Brierley Associates is a nationwide tunnel, trenchless, geotechnical, and geo-structural design firm specializing exclusively in the planning, design and construction of subsurface projects. “Creating Space Underground” is our mission and passion. Founded in 1999, the firm has grown to more than 85 geotechnical and geo-structural engineers and geologists specializing in underground construction. marketing@brierleyassociates.com. www.brierleyassociates.com

Clean Waters Inc. are polymer experts supplying the highest quality flocculants and technical services in the market. Our mission is to help our clients run the most efficient dewatering operation possible. We will use our decades of experience to optimize your polymer program and save money on your disposal costs. Clean Waters distribute polymer, coagulants, water treatment chemicals, and more. We have also developed several polymer cleaners that are the best on the market. stevewardell@cleanwaters.us. www.cleanwaters.us
CUES provides the most robust CCTV pipeline inspection equipment designed to get you the maximum footage per dollar and ensure a return on your investment. terrim@cuesinc.com. www.cuesinc.com

DN Tanks helps keep the world’s most precious resource safe by designing and constructing pre-stressed concrete liquid storage tanks. Our mission is to provide our clients around the world with the highest quality liquid storage at the best long-term value with an unrivalled customer experience. To do this, we form strong, collaborative relationships that ensure exceptional outcomes. The results are long-term performance, durability, reliability, minimal maintenance requirements and lowest cost. jamie.howard@dntanks.com. www.dntanks.com

Eastcom Associates, Inc. has been a distributor of utility products since 1972. We offer a complete line of products dedicated to utility location, leak detection, fault location and pipeline inspection. We service customers in the Northeast and mid-Atlantic regions. Eastcom provides on-site product demonstrations, applications training, technical support and equipment repairs. For all your locating and pipe inspection needs, make your mark with Eastcom! jflint@eastcomassoc.com. www.eastcomassoc.com

Emmons Metro LLC provides sales and service for water and wastewater systems. kemmons@emmonspump.com. www.emmonspump.com

Envirolutions LLC represents the best manufacturers and offers total commitment – from initial selection to service and aftermarket support. aostrosky@envirolutions.com. www.envirolutions.com

Environmental Facilities Corporation helps local governments and eligible organizations undertake their water infrastructure projects. We provide grants and financing to help ensure projects are affordable while safeguarding essential water resources. We provide “one-stop shop” financial services that save money, time and your staff resources. https://efc.ny.gov/

Erdman Anthony Since its founding in 1954, Erdman Anthony has grown to become one of the leading infrastructure engineering firms in the eastern United States. We credit this growth to our belief that engineering excellence is more than knowledge or skill – it is a state of mind. This means approaching every assignment with dedication and enthusiasm. We provide clients with comprehensive services in civil engineering design for water, wastewater and stormwater as well as construction support. ziemianskidj@erdmananthony.com. www.erdmananthony.com

Ferguson Waterworks As one of the nation’s largest waterworks-supply companies, Ferguson Waterworks delivers quality products and innovative solutions across the water, sanitary sewer and stormwater management industries. At Ferguson Waterworks, we put your needs first. Every day public and private water sewer authorities, utility contractors, public works/line contractors and heavy highway contractors count on Ferguson because of our world-class service. rick.gambone@ferguson.com. www.fergusonplc.com/en/index.html

FLEXIM AMERICAS Corporation As the technological leader in the field of non-invasive ultrasonic flow measurement with ultrasound, FLEXIM continuously sets standards. Our clamp-on ultrasonic measurement systems FLUXUS measure virtually anything that flows – liquids as well as gases. jaquilina@flexim.com. www.flexim.com/us

GA Fleet Associates is centrally located in the New York metropolitan area, headquartered in Rye Brook, New York. We serve Municipal, Building Trades, Transit, and Aftermarket clients with single-source responsibility for providing the appropriate treatment and water/wastewater transportation equipment systems and service for environmental infrastructure projects. surban@gafleet.com. www.gafleet.com/
GeoTree Solutions is a manufacturer of geopolymer mortar used for pipe and manhole rehabilitation in sanitary storm and potable water applications. The rehabilitation is corrosion-resistant and a fully independent structural liner. snaiva@cs-nri.com. www.geotree.com

GP Jager Inc. Our mission is to ensure your complete satisfaction with our manufacturers’ products and services. Representing 65 high-quality manufacturers of water and wastewater treatment equipment in New York and New Jersey, we know that our products must be well-engineered and competitively priced. We're proud to offer virtually every biological process, filtration, clarification, disinfection, chemical feed and mechanical equipment available today. zstolc@jagerinc.com. www.jagerinc.com

GP Jager Inc./Vaughan Company Established in 1960, Vaughan Company is the industry leader in reliable chopper pumps and mechanical hydraulic mixing systems. With more than 60 years of experience, Vaughan Company remains committed to giving their customers outstanding service and the most dependable product solutions in the world. All Vaughan products are proudly made in the United States at our factory in Montesano, WA. Find your reliable pumping solution by calling 888-249-CHOP, by email or visiting our websites. zstolc@jagerinc.com. www.chopperpumps.com or www.jagerinc.com

GP Jager Inc./Aerzen Aerzen manufacturers Positive Displacement Blowers, Hybrid Compressors, Screw Compressors and Turbo Blowers. The high-quality machines are used for air and gas applications in wastewater treatment, pneumatic conveying of bulk materials and process gas conveying. zstolc@jagerinc.com. www.jagerinc.com

Green Mountain Pipeline Services offers a wide range of Pipeline Rehabilitation Services to meet your trenchless pipeline needs. Our owners have over 60 years of combined experience in the pipeline rehabilitation market and put that experience to work every day where it counts the most – in the field. With an owner personally handling your project, you can count on results. This experience offers you a wide range of services that can solve trenchless pipeline rehabilitation issues. From design to implementation Green Mountain Pipeline Services gets the job done right the first time. We focus on service. Our experience has also allowed us to learn who can be counted on to get the job done efficiently and right the first time. We not only want to work with you today, but 20 years from now while making every day in between a partnership in success! ray@greenmountainpipe.com. www.greenmountainpipe.com

Hach Company manufactures and distributes analytical instruments and reagents used to test the quality of water and other liquid solutions. Manufactured and distributed worldwide, Hach systems are designed to simplify analysis by offering on-line instrumentation, portable laboratory equipment, prepared reagents, easy-to-follow methods and technical support. dattardi@hach.com. www.hach.com

In-Situ instrumentation and software works together to deliver decision-quality data in real time. Simplify your water monitoring and analysis programs with cost-effective solutions that make it easier to collect, access and manage your data. thintz@in-situ.com. www.in-situ.com

J. Andrew Lange, Inc. represents a full line of process equipment to help you solve any water or wastewater treatment problem you may come across, from small applications to large municipal projects. Our technical knowledge of the products we represent and our design and engineering capabilities mean we can offer the best combination of products and process to assist you. Since 1968, we’ve been providing customers with reliable products, engineering expertise and outstanding customer service with high integrity. Call 315-437-2300 or visit our website for more information. julie@jalangeinc.com. www.JALangeInc.com

Koester Associates is a manufacturer’s representative firm supplying water and wastewater treatment and pumping equipment to municipalities throughout New York and New Jersey with a strong emphasis on field service and customer support. esumner@koesterassociates.com. www.koesterassociates.com
**Larson Design Group** is an award-winning, employee-owned architecture, engineering and consulting firm. Our full-service offerings and national reach enable us to serve our public and private clients across a diverse range of industries. We are dedicated to elevating our client relationships, developing the careers and lives of our employee owners, and enhancing the communities we serve. gcummings@larsondesigngroup.com. www.larsondesigngroup.com

**MRB Group Engineering, Architecture & Surveying, D.P.C.** is one of the longest-established professional engineering, architecture and municipal services firms. MRB Group has earned an outstanding reputation for excellence. We are a trusted partner to the communities and clients we serve. m.mckenna@mrbgroup.com. www.mrbgroup.com

**National Water Main Cleaning Co.** Sewer and Drain Line Rehabilitation. jcaraher@nwmcc-bos.com. www.nwmcc.com

**PSI Process (Pumping Services, Inc.)** is a leading regional water technology company. We think, act and make decisions that positively impact our customers and community. We provide modern technical solutions to collect, transport, treat and conserve the world’s most precious resource – water. Employee ownership drives our commitment in all that we do. d.parkhurst@psiprocess.com. www.psiprocess.com

**PVC Pipe Association** The Uni-Bell PVC Pipe Association is a non-profit trade association founded in 1951 and assists sewer utilities, engineering consultants and contractors with the design and installation of PVC pipe for gravity sewer, interceptors and force mains. We represent gasketed PVC sewer pipe in sizes from 4 inches to 60 inches. Steve is the Regional Engineer for the Northeastern United States. scooper@pvcpa.org. https://twitter.com/pvcpipeassoc

**R.M. Headlee, Co.** is a full line provider of municipal valves and actuators with experience and service covering all of upstate New York. AUMA Electric Actuator; Val-Matic SurgeBuster Check, AWWA Butterfly, Plug and Air Valves; Red Valve Pinch Valves; Rodney Hunt Gates; Tideflex CheckMate, Water Tank Mixing System, Aeration System; Pratt Industrial Butterfly Valves and Actuators. rudy@rmheadlee.com. www.rmheadlee.com

**REXA/Koester Associates** is a leading manufacturer of custom-engineered products fully manufactured outside of Boston, MA. We supply Electraulic Actuators, a hybrid technology that delivers hydraulic actuation that eliminates oil maintenance. The result is a product that offers superior actuator performance and unmatched modulating position control accuracy from an actuator that delivers the greatest level of reliability available in the market. esaitta@rexa.com. www.rexa.com

**Sanitaire/Koester Associates** is a leading water technology company committed to “solving water” by creating innovative and smart technology solutions to meet the world’s water, wastewater and energy needs. payal.shah@xylem.com.

**Siewert Equipment** for more than 70 years has been New York’s premier distributor for pumps, mixers, blowers and process equipment. We offer applications, engineering expertise and system design, as well as aftermarket support including in-house Parts Department and Service Department. Siewert Equipment continues to expand its offerings to municipal markets with the addition of more industry-leading product lines. JerryConnolly@siewertequipment.com. www.siewertequipment.com

**Synergy Water Solutions** is New York City’s premier water treatment group maintaining the integrity and efficiency of city building steam boilers and cooling towers. We at Synergy pride ourselves on superior customer service and simply brilliant chemistry at work! aahmed@h2oeng.com. www.synergywater.com

Booth 10

Troup Environmental Alternatives LLC  represents Wet Well Wizard aeration systems for the elimination of FOG and odors in pump stations and collection systems; Lagoon Master water-moving aerators and sludge activators; and Turbo-Disc automatic self-cleaning disk filters.  KTroup@TroupEnviro.com.  www.troupenviro.com

Booth 4

Watson-Marlow/Koester Associates  Our peristaltic pumps, tubing and hose products help water treatment engineers meet challenges across processes. The simplicity of peristaltic technology helps to simplify the maintenance process. With no valves, vanes or impellers – our pumping technologies have distinct advantages over other pump types.  Eddie.Wentz@wmftg.com.

Booth 7

WesTech Engineering, Inc./Koester Associates  WesTech is an employee-owned, global company with more than 45 years of experience in municipal water and wastewater treatment, including thousands of installations providing clarification, biological treatment, anaerobic digestion, tertiary treatment, thickening and stormwater (I&I) treatment. For a fast and efficient solution, our mobile units can be at your location quickly. We also have multiple solutions for PFAS treatment.  mwilliams@westech-inc.com.  www.westech-inc.com

Booth 9

Wright-Pierce  is an award-winning, multi-discipline engineering firm that has been providing drinking water, wastewater, and civil infrastructure services since 1947. Employee-owned and operated, our firm is made up of 275 engineers and support professionals located in offices throughout the Northeast and Florida. Celebrating 75 years in business!  faye.demoura@wright-pierce.com.  www.wright-pierce.com  

Booth 33

Exhibitors by Booth Numbers

<table>
<thead>
<tr>
<th></th>
<th>1  Erdman Anthony</th>
<th>2  Green Mountain Pipeline Services</th>
<th>4  Troup Environmental Alternatives LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5  BDP Industries/Koester Associates</td>
<td>6  REXA/Koester Associates</td>
<td>7  Watson-Marlow/Koester Associates</td>
</tr>
<tr>
<td></td>
<td>8  Ferguson Waterworks</td>
<td>9  Sanitaire/Westech Engineering, Inc./Koester Associates</td>
<td>10  Thermal Process Systems/Koester Associates</td>
</tr>
<tr>
<td></td>
<td>11  FLEXIM AMERICAS Corporation</td>
<td>12  Brierley Associates</td>
<td>13  Siewert Equipment</td>
</tr>
<tr>
<td></td>
<td>14  J.A. Lange, Inc.</td>
<td>15  Synergy Water Solutions</td>
<td>16  ADS Environmental Services LLC</td>
</tr>
<tr>
<td></td>
<td>17  DN Tanks</td>
<td>18  PVC Pipe Association</td>
<td>19  CUES</td>
</tr>
<tr>
<td></td>
<td>20  R.M. Headlee Co., Inc.</td>
<td>21  GP Jager Inc.</td>
<td>22  GP Jager Inc./Vaughan Company</td>
</tr>
<tr>
<td></td>
<td>23  GP Jager Inc./Aerzen</td>
<td>24  Eastcom Associates, Inc.</td>
<td>27/28  GA Fleet Associates</td>
</tr>
<tr>
<td></td>
<td>29  Environmental Facilities Corporation</td>
<td>30  Hach Company</td>
<td>31  Envirolutions LLC</td>
</tr>
<tr>
<td></td>
<td>32  Emmons Metro LLC</td>
<td>33  Wright-Pierce</td>
<td>34  Larson Design Group</td>
</tr>
<tr>
<td></td>
<td>35  MRB-Pierce</td>
<td>36  Clean Waters, Inc.</td>
<td>37  In-Situ</td>
</tr>
<tr>
<td></td>
<td>38  GeoTree Solutions</td>
<td>39  AFTEK, Inc.</td>
<td>40  PSI Process (Pumping Services, Inc.)</td>
</tr>
</tbody>
</table>
The NYWEA Spring Technical Conference & Exhibition Presents

Young Professionals Social Event at...

Tuesday, June 7th
7 - 8:30pm
321 S. Salina St, Syracuse

The Fitz is a 1920s speakeasy-style bar, located in the cellar of Oh My Darling.

Join us for this social event with bar service and light snacks. All members and conference attendees welcomed!

Contact Elena Araya at elena.araya@ramboll.com with questions.
<table>
<thead>
<tr>
<th>SPEAKER</th>
<th>EMAIL</th>
<th>COMPANY</th>
<th>SESSION#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Blake</td>
<td><a href="mailto:tblake@buffalosewer.org">tblake@buffalosewer.org</a></td>
<td>Buffalo Sewer Authority</td>
<td>7.2</td>
</tr>
<tr>
<td>Yasmine Boudhaouia-Meehan</td>
<td><a href="mailto:yboudhaouia@westech-inc.com">yboudhaouia@westech-inc.com</a></td>
<td>WesTech Engineering, LLC</td>
<td>9.4</td>
</tr>
<tr>
<td>Jayme Breschard</td>
<td><a href="mailto:jbrechard@bartonandloguidice.com">jbrechard@bartonandloguidice.com</a></td>
<td>Barton &amp; Loguidice</td>
<td>3.1</td>
</tr>
<tr>
<td>William Brizzell, Jr.</td>
<td><a href="mailto:william.brizzell@esc.ny.gov">william.brizzell@esc.ny.gov</a></td>
<td>NYS Environmental Facilities Corp.</td>
<td>OS</td>
</tr>
<tr>
<td>Bill Brower</td>
<td><a href="mailto:bbrower@brwncald.com">bbrower@brwncald.com</a></td>
<td>Brown and Caldwell</td>
<td>10.3</td>
</tr>
<tr>
<td>Joe Ciurlino</td>
<td><a href="mailto:jciurlino@evoqua.com">jciurlino@evoqua.com</a></td>
<td>Evoqua Water Technologies</td>
<td>10.1</td>
</tr>
<tr>
<td>Dr. Sim Covington</td>
<td><a href="mailto:scovington@flcc.edu">scovington@flcc.edu</a></td>
<td>Finger Lakes Community College</td>
<td>OS</td>
</tr>
<tr>
<td>Douglas Daley</td>
<td><a href="mailto:djdaley@esf.edu">djdaley@esf.edu</a></td>
<td>SUNY College of Environmental Science and Forestry</td>
<td>4.1</td>
</tr>
<tr>
<td>Kristopher Dodson</td>
<td><a href="mailto:kadodson@syr.edu">kadodson@syr.edu</a></td>
<td>Syracuse University</td>
<td>OS</td>
</tr>
<tr>
<td>Pam Elardo</td>
<td><a href="mailto:pelardo@dep.nyc.gov">pelardo@dep.nyc.gov</a></td>
<td>NYC Department of Environmental Protection</td>
<td>1.2</td>
</tr>
<tr>
<td>James Flint</td>
<td><a href="mailto:jflint@eastcomassoc.com">jflint@eastcomassoc.com</a></td>
<td>Eastcom Associates</td>
<td>5.2</td>
</tr>
<tr>
<td>Jane Gajwani</td>
<td><a href="mailto:jgajwani@dep.nyc.gov">jgajwani@dep.nyc.gov</a></td>
<td>NYC Department of Environmental Protection</td>
<td>OS</td>
</tr>
<tr>
<td>Patrick Gallagher</td>
<td><a href="mailto:PGallagher@ugsicorp.com">PGallagher@ugsicorp.com</a></td>
<td>UGSI Solutions, Inc.</td>
<td>9.2</td>
</tr>
<tr>
<td>Shaun Gannon</td>
<td><a href="mailto:shaun.gannon@ramboll.com">shaun.gannon@ramboll.com</a></td>
<td>Ramboll</td>
<td>1.4</td>
</tr>
<tr>
<td>Jim Groman</td>
<td><a href="mailto:jim.groman@varec-biogas.com">jim.groman@varec-biogas.com</a></td>
<td>Varec Biogas, An Ovivo Division</td>
<td>8.3</td>
</tr>
<tr>
<td>James Hanson</td>
<td><a href="mailto:James.Hanson@GEA.com">James.Hanson@GEA.com</a></td>
<td>GEA Westfalia Separator</td>
<td>8.4</td>
</tr>
<tr>
<td>Shannon Harty</td>
<td><a href="mailto:shannonharty@ongov.net">shannonharty@ongov.net</a></td>
<td>Onondaga County WEP</td>
<td>1.1</td>
</tr>
<tr>
<td>Kyle Hay</td>
<td><a href="mailto:khay@brwncald.com">khay@brwncald.com</a></td>
<td>Brown and Caldwell</td>
<td>6.4</td>
</tr>
<tr>
<td>Ariel Judd</td>
<td><a href="mailto:ariel.judd@ghd.com">ariel.judd@ghd.com</a></td>
<td>GHD Consulting Services, Inc.</td>
<td>6.3</td>
</tr>
<tr>
<td>Mark Koester</td>
<td><a href="mailto:mkoester@koesterassociates.com">mkoester@koesterassociates.com</a></td>
<td>Koester Associates</td>
<td>5.3</td>
</tr>
<tr>
<td>Ryan Laninga</td>
<td><a href="mailto:rlaninga@wendelcompanies.com">rlaninga@wendelcompanies.com</a></td>
<td>Wendel</td>
<td>10.2</td>
</tr>
<tr>
<td>Gary Lapera</td>
<td><a href="mailto:gary.lapera@jacobs.com">gary.lapera@jacobs.com</a></td>
<td>Jacobs</td>
<td>7.4</td>
</tr>
<tr>
<td>Huiping Li</td>
<td><a href="mailto:huiping@jdglblglobalinc.com">huiping@jdglblglobalinc.com</a></td>
<td>Jiangxi JDL Environmental Protection Co., Ltd.</td>
<td>10.4</td>
</tr>
<tr>
<td>Richard Loeffler</td>
<td><a href="mailto:richard.loeffler@xylem.com">richard.loeffler@xylem.com</a></td>
<td>Xylem</td>
<td>7.3</td>
</tr>
<tr>
<td>AJ McGinn</td>
<td><a href="mailto:amcginn@brierleyassociates.com">amcginn@brierleyassociates.com</a></td>
<td>Brierley Associates</td>
<td>4.3.4</td>
</tr>
<tr>
<td>Jen Muir</td>
<td><a href="mailto:jenmuir@jkmuir.com">jenmuir@jkmuir.com</a></td>
<td>JKMuir</td>
<td>3.2</td>
</tr>
<tr>
<td>Katie Porter</td>
<td><a href="mailto:kporter1@brwncald.com">kporter1@brwncald.com</a></td>
<td>Brown and Caldwell</td>
<td>3.4</td>
</tr>
<tr>
<td>Joel Renzoni</td>
<td><a href="mailto:jrenzoni@buffalosewer.org">jrenzoni@buffalosewer.org</a></td>
<td>Buffalo Sewer Authority</td>
<td>2.1</td>
</tr>
<tr>
<td>John Salvagno</td>
<td><a href="mailto:john.salvagno@arcadis.com">john.salvagno@arcadis.com</a></td>
<td>Arcadis</td>
<td>6.1.2</td>
</tr>
<tr>
<td>Steve Sanders</td>
<td><a href="mailto:sanders@morrisville.edu">sanders@morrisville.edu</a></td>
<td>Morrisville College</td>
<td>OS</td>
</tr>
<tr>
<td>Brian Sibiga</td>
<td><a href="mailto:bsibiga@wendelcompanies.com">bsibiga@wendelcompanies.com</a></td>
<td>Wendel</td>
<td>9.3</td>
</tr>
<tr>
<td>David Silverman</td>
<td><a href="mailto:david.silverman@psiprocess.com">david.silverman@psiprocess.com</a></td>
<td>PSI Process</td>
<td>8.2</td>
</tr>
<tr>
<td>Justin Slentz</td>
<td><a href="mailto:jsentz@monroecounty.gov">jsentz@monroecounty.gov</a></td>
<td>Monroe County</td>
<td>2.2</td>
</tr>
<tr>
<td>Lisa Stone</td>
<td><a href="mailto:Lisa.stone@DCWater.com">Lisa.stone@DCWater.com</a></td>
<td>DC Water</td>
<td>OS</td>
</tr>
<tr>
<td>Jim Thayer</td>
<td><a href="mailto:jamesthayer@ongov.net">jamesthayer@ongov.net</a></td>
<td>Onondaga County WEP</td>
<td>7.1</td>
</tr>
<tr>
<td>Andy Thuman</td>
<td><a href="mailto:andrew.thuman@hdrinc.com">andrew.thuman@hdrinc.com</a></td>
<td>HDR</td>
<td>4.2</td>
</tr>
<tr>
<td>Richard Trelaven</td>
<td><a href="mailto:Rtreleven@bcrcinc.com">Rtreleven@bcrcinc.com</a></td>
<td>BCR Environmental</td>
<td>9.1</td>
</tr>
<tr>
<td>Walt Walker</td>
<td><a href="mailto:wwalker@greeley-hansen.com">wwalker@greeley-hansen.com</a></td>
<td>Greeley and Hansen</td>
<td>1.3</td>
</tr>
<tr>
<td>Stephen Wardell</td>
<td><a href="mailto:stewart@cleanwaters.us">stewart@cleanwaters.us</a></td>
<td>Clean Waters</td>
<td>5.1</td>
</tr>
<tr>
<td>Rob Wiley</td>
<td><a href="mailto:r.wiley@nuoveenergie.com">r.wiley@nuoveenergie.com</a></td>
<td>Nuove Energie</td>
<td>8.1</td>
</tr>
<tr>
<td>Bo Zhang</td>
<td><a href="mailto:bo.zhang@stvinc.com">bo.zhang@stvinc.com</a></td>
<td>STV Inc.</td>
<td>3.3</td>
</tr>
</tbody>
</table>

**KEY:** OS = Opening Session

**Remember to fill out your Speaker Evaluations.**

In the Whova app or on Web click on Agenda; Title of Presentation; ‘Rate Session’ or in the Whova app, click on Evaluation in the ‘home’ screen; Title of Presentation; Rate
NYWEA Board of Directors and Committees

BOARD OF DIRECTORS

OFFICERS

President .................. Khris Dodson, Syracuse
President–Elect .......... Donna Grudier, Northport
Vice President ........... Lisa Derrigan, Buffalo
Vice President–Elect ....... Daniel Rourke, Saratoga
Immediate Past President ... Lauren Livemore, Liverpool
Treasurer ................... Timothy Taber, Liverpool
Assistant Treasurer ......... Robert DeGiorgio, New York, NY
Senior WEF House of Delegates Representative .... Geoffrey Baldwin
Executive Director .... Patricia Cerro-Reehil, Syracuse

WEF House of Delegates
Geoffrey Baldwin, Rosaleen B. Nogle, Buffalo,
Robert Wither, Glenville

Operator Representative ... Dale Grudier, Babylon
Young Professional .......... Sara Igielski, New York City
NYSDEC Liaison ............. Ed Hampston, Albany
USEPA Liaison ............... Alicia Arcaya, New York City
NYSEFC Liaison ............ William Brizzell, Albany

CHAPTER REPRESENTATIVES

Capital .............................. Neil O’Connor, Albany
Central ............................. Michael Burkett, Syracuse
Geneese ............................. Michelle McEntire, Rochester
Long Island ...................... Steve Hadjiyane, Woodbury
Lower Hudson ................... Charles Beckett, Harrison
Metropolitan .................. Gregory Shaw, Jr., Newburgh
Western ............................ Angela Hintz, Buffalo

COMMITTEE REPRESENTATIVES

Association Activities Group .... Vijesh Karatt Vellatt
Technical Group .................... Dan O’Sullivan
Public Outreach Group .......... Sana Barakat

EXECUTIVE OFFICE

Executive Director ........... Patricia Cerro-Reehil
Executive Assistant ............ Margaret Hoose
IT Specialist (p/t) ............ Maureen Kozol
Operator Certification Administrator .... Carolyn Steinhauer
Communications Manager and Scholarship Administrator; Advertising ........ Madison Quinn

PROGRAM COMMITTEE

Vijesh Karatt Vellatt, Chair
Kathryn Serra, Vice-Chair
Kathy Ammar
Geoffrey Baldwin
Sana Barakat
David Barnes
Jeffrey G. Butler
Patricia Cerro-Reehil
Sara Cwinka
Sarah Dalley Galst
Ronald C. Delo
Lisa Derrigan

Daniel Durfee
Jennifer Franco
Robert Frost
Vera Gouchev
Mark Greene
Donna Hager
Kinsey Hoffman
Craig Horst
Camie Jarrell
Jamie Johnson
Michael Kessler
Frederick Knicheloe
Robert J. Kukenberger

Jeffrey LeBlanc
Amie Lenkowice
Lauren Livemore
Matthew Manchisi
Michael Manning
Jannine M. McColgan
Paul McGarvey
Vatche Minassian
Katie Mockler
James Mueller
Randy Ott
Gregg Palmer
Peter R. Pastore

George Penesis
John Petito
Joseph Polomene
Richard Pope
Peter J. Radosta
David Ralsback
Wendi Richards
Tania Romero
Stephen Rozewski
Vincent Rubino
Jonathan Ruff
Elliott F. Sachs
Robert R. Sharp

Toby Singer
Brian Skidmore
David Stahl
Dennis J. Stanford
Nancy Struzenski
Dahlia Thompson
Sara Urbanczyk
Timothy W. Wales
Eme Williams-Blake
Janine Witko

COMMITTEES

ASSOCIATION ACTIVITIES GROUP –

Vijesh Karatt Vellatt

Awards ................................. Brian Skidmore
Diversity, Equity & Inclusion ........ Walter Walker
Membership ........................... Michelle McEntire
Program ...................... Vijesh Karatt Vellatt, Kathryn Serra
Certification Committee .......... Vincent Rubino,
Hannah Rockwell, Alex Emmerson, Tyler Masick
Conference Management ......... William J. Nylic, III
Strategic Planning ................. Lisa Derrigan
Young Professionals .............. Taylor Brown

TECHNICAL GROUP – Dan O’Sullivan

Asset Management ........................ Evan Pilachowski
Energy/Research ........................ Vacant
Environmental Science .............. Edmund Lee
Industrial Wastewater/Pretreat .... Tara Blum
Residuals & Biosolids .................. Jeffrey LeBlanc
Stormwater ............................. Ethan Sullivan
Utility Executives .................... Pamela Elardo
Utility Operations and Maintenance .... Dan O’Sullivan
Wastewater Collection Systems ..... Rosaleen B. Nogle
Watershed ............................ Lisa Melville

PUBLIC OUTREACH GROUP – Sana Barakat

Government Affairs ........................ Robert Ostapczuk
Humanitarian Assistance .............. Shanya Allen
Member Education ..................... William Davis
Public Outreach ....................... Julie Barown
Publications ............................ Doug Daley, Danielle Hurley
Scholarship ............................ Alfonso Lopez, Diane Hammerman
Student/University ................... Krish Ramalingam
Sustainability .......................... Erika Jozwiak

COUNCILS AND AFFILIATED BOARDS

Collections Certification Board ........ Rosaleen B. Nogle
Operator Certification Council ....... Erik Schmitt, Chair
Patricia Cerro-Reehil, Vice Chair

TASK FORCES

Business Plan ........................ Khris Dodson
Civil Service ........................ Tim Murphy, Daniel Rourke
Future Conferences ................. Lisa Derrigan, Alex Bullers

Conference Managers .... Larry Brincat, Robert DeGiorgio,
Lisa Derrigan, Khris Dodson,
William Grandner, Maggie Hoos, Greg Jager,
Maureen Kozol, Lauren Livemore, Joe Massaro,
William Nylic, Shay Owang, Howard Robinson,
Tim Taber, Vijesh Karatt Vellatt

...
## Our Sponsors

**Geyser Level**
- Brierley Associates
- D&B Engineers and Architects
- EDR
- GA Fleet Associates
- GP Jager Inc.
- Hazen and Sawyer
- Koester Associates
- STV Inc.

**Waterfall Level**
- Arcadis
- Barton & Loguidice
- CDM Smith
- Gannett Fleming
- Jacobs
- Woodard & Curran
- Xylem Inc.

**River Level**
- C.T. Male Associates
- HDR, Inc.
- PSI Process (Pumping Services, Inc.)
- Vaughan Company, Inc.

**Lake Level**
- Beardsley
- Carollo Engineers
- Clear Flo Technologies, Inc.
- Mott MacDonald
- MRB Group
- Ramboll

## Our Advertisers

<table>
<thead>
<tr>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arcadis</td>
<td>26</td>
</tr>
<tr>
<td>Barton &amp; Loguidice</td>
<td>14</td>
</tr>
<tr>
<td>Brierley Associates</td>
<td>10</td>
</tr>
<tr>
<td>Cameron Engineering</td>
<td>8</td>
</tr>
<tr>
<td>CDM Smith</td>
<td>26</td>
</tr>
<tr>
<td>D&amp;B Engineers and Architects</td>
<td>7</td>
</tr>
<tr>
<td>EDR</td>
<td>22</td>
</tr>
<tr>
<td>Emmons Metro LLC</td>
<td>12</td>
</tr>
<tr>
<td>Franklin Miller</td>
<td>16</td>
</tr>
<tr>
<td>GA Fleet Associates</td>
<td>6</td>
</tr>
<tr>
<td>Gannett Fleming</td>
<td>20</td>
</tr>
<tr>
<td>GP Jager Inc.</td>
<td>22</td>
</tr>
<tr>
<td>Harper Control Solutions Inc.</td>
<td>14</td>
</tr>
<tr>
<td>Hazen and Sawyer</td>
<td>24</td>
</tr>
<tr>
<td>HDR, Inc.</td>
<td>Back Cover</td>
</tr>
<tr>
<td>INVENT Environmental Technologies, Inc.</td>
<td>26</td>
</tr>
<tr>
<td>Jacobs</td>
<td>24</td>
</tr>
<tr>
<td>Koester Associates</td>
<td>Inside Front Cover</td>
</tr>
<tr>
<td>MRB Group</td>
<td>18</td>
</tr>
<tr>
<td>Multiple Hearth Services, IFCO</td>
<td>24</td>
</tr>
<tr>
<td>STV Inc.</td>
<td>20</td>
</tr>
<tr>
<td>Surpass Chemical</td>
<td>20</td>
</tr>
<tr>
<td>Vaughan Company, Inc</td>
<td>10</td>
</tr>
<tr>
<td>Wendel</td>
<td>12</td>
</tr>
<tr>
<td>Woodard &amp; Curran</td>
<td>14</td>
</tr>
<tr>
<td>Xylem</td>
<td>18</td>
</tr>
</tbody>
</table>
Mark Your Calendars!

NYC Watershed Science and Technical Conference
“Clean Water through Protection and Partnership”

Wednesday, September 21, 2022
Bear Mountain Inn & Conference Center
Tomkins Cove, NY

Submission requirements:
Abstracts should be submitted electronically utilizing the Abstract Submission Form available on the NYWEA website at www.nywea.org. Suggested abstract topics are also listed there.

Abstract Deadline is June 10.

2022 Upcoming Training Classes and Meetings

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 21, 2022</td>
<td>An Introduction to UV Disinfection Technology and Advanced Oxidation</td>
<td>9:00 am-11:00 am</td>
<td>Virtual via Zoom</td>
</tr>
<tr>
<td>June 23, 2022</td>
<td>The Effect of Screen Design on Capture Rate and Plant Maintenance</td>
<td>10:00 am-11:00 am</td>
<td>Virtual via Zoom</td>
</tr>
<tr>
<td>June 28 &amp; 30, 2022</td>
<td>Occupational Stress (2-part series)</td>
<td>9:30 am-11:30 am</td>
<td>Virtual via Zoom</td>
</tr>
<tr>
<td>July 26 &amp; 28, 2022</td>
<td>Biohazards of Water/Wastewater Work (2-part series)</td>
<td>12:30 pm-2:30 pm</td>
<td>Virtual via Zoom</td>
</tr>
<tr>
<td>February 6-8, 2023</td>
<td>NYWEA 95th Annual Meeting</td>
<td></td>
<td>New York Marriott Marquis, New York City</td>
</tr>
</tbody>
</table>

For more information and to register, visit nywea.org.
We provide solutions to your most challenging problems.

At HDR we set our clients up for successful long term program implementation and project success with our integrated Program and Construction Management approach.

New York | New Jersey