Monday, November 2

8:00 A.M.
Welcome and Opening Keynote

9:10 A.M.

**COLLECTION & DISTRIBUTION**
Inline Inspection Challenges on Parallel PCCP Raw Water Mains in Raleigh
Jim Perrotti, CDM Smith
W, MT, PE

**SPECIAL TOPICS**
Optimizing Best Management Practices for a Beverage Company in Western NC for Future Compliance
John Brinkley, Black & Veatch
WW, MT, PE

**WATER**
The Water Research Foundation Update
Alice Fulmer, The Water Research Foundation
W, MT, PE

**YOUNG PROFESSIONALS**
Want to Fly Drones? Here’s What it Takes
Sam Beavans, Freese and Nichols
W, MT, PE

9:45-10:15 A.M. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

10:20 A.M.

**COLLECTION & DISTRIBUTION**
Charting a New Course in Risk Management after Two High Consequence Water System Failures
Adam Sharpe, HDR
W, MT, PE

**SPECIAL TOPICS**
Moooving Data Collection to the Air
Seth Swain, WithersRavenel
WW, W, MT, PE

**WATER**
Catawba River WSP Raw Water Dam and Reservoir Design, Construction, and 1st Year Operation
Scott Thompson, Black & Veatch
W, MT, PE

**YOUNG PROFESSIONALS**
Corrosion and Odor Control 101: Odor Control Assessment of 3 Charlotte Wastewater Treatment Plants
Ahmed Bitar, CDM Smith
WW, MT, PE

10:55 A.M.

**COLLECTION & DISTRIBUTION**
Pipeline Condition Assessment Findings and Challenges from Three Metallic Force Mains in the City of Greensboro, NC
Paul Batman, Arcadis & City of Greensboro
WW, MT, PE

**SPECIAL TOPICS**
Drone’s-eye View: Painting a Better Picture of Construction Management
Sam Beavans, Freese and Nichols Inc.
WW, W, MT, PE

**WATER**
Lake Management Strategies for Source Water Quality Management
Elizabeth Crafton, Hazen and Sawyer
W, MT, PE

**YOUNG PROFESSIONALS**
Tightfisted Times: How to Fix a Pump Station on a Tight Budget
Clark Maness, WithersRavenel
WW, MT, PE

11:30 A.M.-1:00 P.M. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

1:05 P.M.

**COLLECTION & DISTRIBUTION**
Durham’s Eno River Outfall Replacement: Not Your Typical Outfall Project
Jacob Bowes, McKim & Creed
WW, MT, PE

**SPECIAL TOPICS**
Crisis Communications After COVID-19: Lessons Learned From the Pandemic
Mike McGill, WaterPIO
W, MT, PE

**WATER**
An Evaluation of Advanced Oxidation Processes for the Removal of 1,4-Dioxane in Drinking Water
Greg Flory, Piedmont Triad Regional Water Authority
W, MT, PE

**YOUNG PROFESSIONALS**
Thinking Outside the Box and Inside the Cylinder: Water Tank Retrofit for a Water Booster Station
Marshall Grossell, Arcadis
W, MT, PE
Monday, November 2

1:40 P.M.

**COLLECTION & DISTRIBUTION**
Briar Creek: No Sewer Wars, No Force, but a Remarkable Trilogy Nonetheless
Chris Kolkhorst, CDM Smith & Charlotte
*WW, MT, PE*

**SPECIAL TOPICS**
Best Practices and Lessons Learned from Water and Wastewater System Responses to COVID-19
Jack Moyer, AECOM
*WW, W, MT, PE*

**WATER**
Pilot Showcase in South Carolina’s Broad River Basin: Ceramic Membranes, Ozone, and More
Paul Hargette, Black & Veatch
*W, MT, PE*

**YOUNG PROFESSIONALS**
Decision-Support Tools for Water Distribution System Risk Management
Nicola Hill, HDR
*W, MT, PE*

1:55 P.M.

2:15 P.M.

**COLLECTION & DISTRIBUTION**
Rare Pipes: Rehabilitating a 27-inch, Tar Lined, Corrugated Metal Gravity Sewer Interceptor - Planning to Construction
Brenton Bent, Rocky Mount

**SPECIAL TOPICS**
evaluation of Grit Characteristics and Grit Removal Performance Using the ViCAs Method
Jared Beavans, Hazen and Sawyer
*WW, MT, PE*

**WATER**
Optimizing Manganese Removal in Water Treatment Operations: Lessons Learned Over Thirty Five Years of Work
William Knocke, Department of Civil and Environmental Engineering - Virginia Tech
*W, MT, PE*

**YOUNG PROFESSIONALS**
What to Do When It All Goes Wrong
Jennifer Haynie, NCDENR
*W, MT, PE*

2:30 P.M.

2:50 P.M.

**COLLECTION & DISTRIBUTION**
Polymer, Portland Cement, Fiberglass: Deciding on the Right Manhole
Chris Windley, CJS
*WW, MT, PE*

**SPECIAL TOPICS**
A Case Study of PFAS Chemistry in Waste Water Influent Samples
Lindsay Boone, Enthalpy Analytical
*WW, MT, PE*

**WATER**
Brackish Groundwater Desalination - Energy-Efficiency Gains Through Retrofitting
Jorge Arroyo, Freese and Nichols Inc.
*W, MT, PE*

**YOUNG PROFESSIONALS**
The Fundamentals of ANAMMOX Deammonification: Discovery, Application and Advantages
Lauren Frei, Stantec
*WW, MT, PE*

3:15 P.M.-4:00 P.M. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

3:15 P.M.

**COLLECTION & DISTRIBUTION**
Acquisition and Rehabilitation of Timmonsville’s Utilities: The Final Chapter
Porter Rivers, AECOM
*WW, W, MT, PE*

**SPECIAL TOPICS**
A Tale of Two Utilities SCADA Master Plans: Different Strokes for Different Folks
Terry Draper, EMA, Inc.
*WW, W, MT, PE*

**WATER**
Performance Requirements for PFAS Removal by Reverse Osmosis Membranes for the Northwest WTP
Jonathan Treadway, CDM Smith
*W, MT, PE*

**YOUNG PROFESSIONALS**
Water and Wastewater Master Planning: An Overview
Kristen Cartwright, Freese and Nichols
*WW, W, MT, PE*
**Monday, November 2**

**COLLECTION & DISTRIBUTION**

Out With the Old... In With the New: Updating York County’s Aging Standard Utility Construction Documents
Dennis Kachmarsky, Arcadis
WW, W, MT, PE

**SPECIAL TOPICS**

It’s Kind of a Big Deal: Lowering Apparent Water Loss by Improving Accuracy on a 120” Raw Water Meter
Mike Queen, Charlotte Water
W, MT, PE

**WATER**

PFAS Adsorption: Lessons Learned Removal
Casey Theys, Calgon Carbon Corporation
W, MT, PE

**YOUNG PROFESSIONALS**

Pump Station Diagnosis: How Sanford Got Back on the (Pump) Curve
Parker Colbath, WithersRavenel
WW, MT, PE
Tuesday, November 3

8:00 A.M.

POLICY & MANAGEMENT
A Case for Regionalization: The City of Southport’s Journey to Securing a Long-Term Solution to their Wastewater Treatment Needs
Time Devine, Hazen and Sawyer
WW, MT, PE

SPECIAL TOPICS
Leveraging BIM for Advancing Design, Construction, and Operations
Jonathan Lapsley, CDM Smith
WW, W, MT, PE

WASTEWATER
Let’s Start-Em Up! Efficiently Integrating Digester Start-up into Plant Operations
Chris Moline, HDR
WW, MT, PE

8:35 A.M.

POLICY & MANAGEMENT
The HRSD SWIFT Program: A Case Study in Collaborative Program Management
Kenneth Horner, AECOM
WW, MT, PE

SPECIAL TOPICS
HRSD Goes Live: Using Dynamic Data to Make the Right Investments at the Right Time
David London, Black & Veatch
WW, W, MT, PE

WASTEWATER
Worthless Dust or Valuable Resource? Drying Thermally Hydrolyzed Solids the Right Way
Stephanie Spalding, HDR
WW, MT, PE

9:10 A.M.

POLICY & MANAGEMENT
Taking a Capital Program from $16M to $400M in 5 Years Flat
Drew Hardin, Freese and Nichols, Inc.
WW, W, MT, PE

SPECIAL TOPICS
Where to Start? Asset Management Database Population with Survey123
Colby Cash, Hazen and Sawyer
WW, W, MT, PE

WASTEWATER
Thermal Hydrolysis: Lessons Learned from 20 Years of THP Design Integration
Greg Knight, Black & Veatch
WW, MT, PE

9:45 A.M.

POLICY & MANAGEMENT
New Daily Demand Patterns and The Financial Reality
Ken Orie, WithersRavenel
WW, W, MT, PE

SPECIAL TOPICS
ESI: Assisting Organizations to go Beyond Compliance
Marcia Allocco, NCDEQ - Division of Environmental Assistance and Customer Service
WW, W, MT, PE

WASTEWATER
The Influence of Thermal Hydrolysis on the Operating Costs of Biosolids Management
Tim Bishop, Heyward
WW, MT, PE

10:15 A.M.-11:00 A.M. -NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

11:05 A.M.

POLICY & MANAGEMENT
Hurdling the Permitting, Design, & Construction Gauntlet: A Case Study in Intergovernmental/Private Sector Coordination to Provide Wastewater to the Moncure Megasite
Charles Archer, Freese and Nichols, Inc.
WW, W, MT, PE

SPECIAL TOPICS
Better Wear, Less Tear: Get More Out of Your Coating Investment
Matthew Cartwright, Freese and Nichols, Inc.
WW, W, MT, PE

WASTEWATER
Regionalization of Solids Treatment: Charlotte Water’s Path to a Circular Economy
K Richard Tsang, CDM
WW, MT, PE
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:40 A.M.</td>
<td>POLICY &amp; MANAGEMENT</td>
</tr>
<tr>
<td></td>
<td>Define Your Own Destiny: Using Planning and</td>
</tr>
<tr>
<td></td>
<td>Design to Set the Terms for Industrial</td>
</tr>
<tr>
<td></td>
<td>Growth</td>
</tr>
<tr>
<td></td>
<td>Scott Haberstroh, Freese and Nichols, Inc.</td>
</tr>
<tr>
<td></td>
<td>WW, W, MT, PE</td>
</tr>
<tr>
<td></td>
<td>SPECIAL TOPICS</td>
</tr>
<tr>
<td></td>
<td>Overcoming Unique Challenges: Proper</td>
</tr>
<tr>
<td></td>
<td>Management of PCCP Infrastructure</td>
</tr>
<tr>
<td></td>
<td>Paul Longo, Dewberry Engineers Inc.</td>
</tr>
<tr>
<td></td>
<td>WW, W, MT, PE</td>
</tr>
<tr>
<td>12:10 P.M.</td>
<td>WASTEWATER</td>
</tr>
<tr>
<td></td>
<td>Getting To (and Staying At) 17% Cake</td>
</tr>
<tr>
<td></td>
<td>Solids: Challenges, Successes, and Lessons</td>
</tr>
<tr>
<td></td>
<td>Learned</td>
</tr>
<tr>
<td></td>
<td>Christopher Andres, Town of Cary</td>
</tr>
<tr>
<td></td>
<td>WW, W, MT, PE</td>
</tr>
<tr>
<td>1:35 P.M.</td>
<td>POLICY &amp; MANAGEMENT</td>
</tr>
<tr>
<td></td>
<td>Continuing Challenges: Why Many North</td>
</tr>
<tr>
<td></td>
<td>Carolina Utilities Struggle with Viability</td>
</tr>
<tr>
<td></td>
<td>Francine Durso, NC Division of Water</td>
</tr>
<tr>
<td></td>
<td>Infrastructure</td>
</tr>
<tr>
<td></td>
<td>WW, W, MT, PE</td>
</tr>
<tr>
<td></td>
<td>SPECIAL TOPICS</td>
</tr>
<tr>
<td></td>
<td>Optimizing a Stream-Side Sewer Route to</td>
</tr>
<tr>
<td></td>
<td>Streamline Permitting</td>
</tr>
<tr>
<td></td>
<td>Jeremy McCall, ARCADIS</td>
</tr>
<tr>
<td></td>
<td>WW, MT, PE</td>
</tr>
<tr>
<td></td>
<td>WASTEWATER</td>
</tr>
<tr>
<td></td>
<td>Novel System for Phosphate Sequestration</td>
</tr>
<tr>
<td></td>
<td>and Biogas Capture from Anaerobically</td>
</tr>
<tr>
<td></td>
<td>Digested Sludge</td>
</tr>
<tr>
<td></td>
<td>Mudit Gangal, Ovivo</td>
</tr>
<tr>
<td></td>
<td>WW, MT, PE</td>
</tr>
<tr>
<td>2:10 P.M.</td>
<td>POLICY &amp; MANAGEMENT</td>
</tr>
<tr>
<td></td>
<td>Legislative and Regulatory Update</td>
</tr>
<tr>
<td></td>
<td>Paul Nyffeler, AquaLaw PLC</td>
</tr>
<tr>
<td></td>
<td>W, MT, PE</td>
</tr>
<tr>
<td>2:45 P.M.</td>
<td>SPECIAL TOPICS</td>
</tr>
<tr>
<td></td>
<td>Advancing the Digital Twin Concept at</td>
</tr>
<tr>
<td></td>
<td>Treatment Facilities for Optimization and</td>
</tr>
<tr>
<td></td>
<td>Rapid Prototyping of Improvements</td>
</tr>
<tr>
<td></td>
<td>Jeremy Koch, AECOM</td>
</tr>
<tr>
<td></td>
<td>WW, W, MT, PE</td>
</tr>
<tr>
<td>3:20 P.M.</td>
<td>POLICY &amp; MANAGEMENT</td>
</tr>
<tr>
<td></td>
<td>Communicating Your CIP to Key Stakeholders,</td>
</tr>
<tr>
<td></td>
<td>Including the Press and the Public</td>
</tr>
<tr>
<td></td>
<td>Mike McGill, WaterPIO</td>
</tr>
<tr>
<td></td>
<td>W, MT, PE</td>
</tr>
<tr>
<td></td>
<td>SPECIAL TOPICS</td>
</tr>
<tr>
<td></td>
<td>Salt Accounting to Better Forecast and</td>
</tr>
<tr>
<td></td>
<td>Manage Impacts of Indirect Potable Reuse</td>
</tr>
<tr>
<td></td>
<td>Nick Landes, Freese and Nichols, Inc.</td>
</tr>
<tr>
<td></td>
<td>WW, W, MT, PE</td>
</tr>
<tr>
<td>3:30 P.M.</td>
<td>WASTEWATER</td>
</tr>
<tr>
<td></td>
<td>Use of Micro-aeration to Improve Biogas</td>
</tr>
<tr>
<td></td>
<td>Quality at Full Scale Digestion</td>
</tr>
<tr>
<td></td>
<td>Adrian Romero, Jacobs</td>
</tr>
<tr>
<td></td>
<td>WW, MT, PE</td>
</tr>
</tbody>
</table>
Tuesday, November 3

3:50 p.m.-4:20 p.m. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

4:25 p.m.

POLICY & MANAGEMENT
A Resilient Path Towards an Uncertain Future: Lessons Learned from America’s Water Infrastructure Act of 2018
Jonathan Williams, South Atlantic Area Water Resources Manager
WW, W, MT, PE

SPECIAL TOPICS
Design Challenges and Lessons Learned for Complex Sewer Bypassing
Paul Longo, Dewberry Engineers Inc.
WW, MT, PE

WASTEWATER
Rocky River Regional WWTP Upset and Recovery
George Anipitakis, Brown and Caldwell
WW, MT, PE

5:00 p.m.

POLICY & MANAGEMENT
Integrating Risk-Based Resilience Assessment into Water System Master Planning
Kevin Laptos, Black & Veatch
W, MT, PE

SPECIAL TOPICS
Life-Saving Mentorship: Engineering Solutions in Cambodia
Jeff Wing, Dewberry
WW, MT, PE

WASTEWATER
Utilizing CFD Modeling to Improve Lift Station Operating Conditions
Josh Powell, McKim & Creed
WW, MT, PE
Wednesday, November 4

8:00 A.M.

**POLICY & MANAGEMENT**
Securing Strategic Buy-in: Charlotte Water’s Foundation for the Future
Catherine Carter, Raftelis
W, MT, PE

**WASTEWATER**
Aerobic Granular Sludge at CLTWater: Pilot Planning, Execution, and Take-Aways
Muriel Steele, Charlotte, NC
WW, MT, PE

**WATER**
Using Satellite RADAR Imaging to Detect Pipeline Leaks in Hilton Head: A Case Study
James Perry, Utilis
W, MT, PE

8:35 A.M.

**POLICY & MANAGEMENT**
The Importance of and Methodology for Developing Business Continuity Plans in Water and Wastewater Systems
Jack Moyer, AECOM
WW, W, MT, PE

**WASTEWATER**
Pushing the Limits of RAS Fermentation: Demonstration Study Results from Charlotte Water’s McAlpine Creek WWMF
Kristen Fredrickson, Black & Veatch
WW, MT, PE

**WATER**
Capacity Restoration of the Lenoir WTP
Joel Whifford, McGill Associates, P.A.
W, MT, PE

9:10 A.M.

**POLICY & MANAGEMENT**
Climate Change and Emergency Management Planning for Public Water Systems
Randy Hintz, WithersRavenel
W, MT, PE

**WASTEWATER**
MABR at Gold Bar WWTP: enabling nitrification below washout SRT and enhanced TN removal &#8211; a pilot study
Niclas Astrand, Suez
WW, MT, PE

9:45 A.M.

**POLICY & MANAGEMENT**
Redefining Risk in Renewal Needs Forecasts
David Gordon, Blue Cypress Consulting
WW, W, MT, PE

**WASTEWATER**
Improved BNR Performance Through Selective Sludge Wasting
Daniel Dair, World Water Works
WW, MT, PE

**WATER**
Weathering a “Category F” (Flooding-FEMA-Funding) Project with a Focus on the Future
Jeremy Rivenbark, CJS Conveyance, PLLC
W, MT, PE

10:15 A.M.-11:00 A.M. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

11:05 A.M.

**POLICY & MANAGEMENT**
Applying the Envision Sustainable Design Framework for Smaller Construction Projects
Lawrence Alewine, Stantec
WW, MT, PE

**WASTEWATER**
Hitting a Moving Target: Designing An MBR System With Uncertain Nutrient Limits
David Wankmuller, Hazen and Sawyer
WW, MT, PE

**WATER**
How to Handle the Communication Challenges Caused by the Revised Lead and Copper Rule
Mike McGill, WaterPIO
W, MT, PE
### Wednesday, November 4

CEU KEY: W, Approved for Water; WW, Approved for Wastewater; PE, Approved for PE; MT, Approved for Maintenance Tech.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
<th>Organization</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:40 A.M.</td>
<td>POLICY &amp; MANAGEMENT</td>
<td>Reid Campbell, AECOM</td>
<td>W, MT, PE</td>
<td>WASTEWATER</td>
</tr>
<tr>
<td></td>
<td>What Drives Your Pump Decision Processes?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:40 A.M.</td>
<td>WASTEWATER</td>
<td>Thomas Johnson, Jacobs</td>
<td>WW, MT, PE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Effective Master Planning Through Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:40 A.M.</td>
<td>WATER</td>
<td>Amir Alansari, UNCC</td>
<td>W, MT, PE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Re-evaluating the Importance of Mixing in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drinking Water Treatment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:10 P.M.-1:30 P.M. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:35 P.M.</td>
<td>COLLECTION &amp; DISTRIBUTION</td>
<td>Jayson Brennen, CDM Smith</td>
<td>WW, W, MT, PE</td>
<td>WATER</td>
</tr>
<tr>
<td></td>
<td>Applying Innovative GIS and Business</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intelligence Tools to Support Utility Mgmt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:35 P.M.</td>
<td>WASTEWATER</td>
<td>Thomas Nangle, Brown and Caldwell</td>
<td>WW, MT, PE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>When H2S Attacks &amp; #8211; Fast Tracked</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Headworks Corrosion and Odor Control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Improvements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:10 P.M.</td>
<td>COLLECTION &amp; DISTRIBUTION</td>
<td>Stuart Jeffcoat, HDR</td>
<td>W, MT, PE</td>
<td>WATER</td>
</tr>
<tr>
<td></td>
<td>Utility’s Guide to Understanding &amp;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Preparing for the Revised Lead &amp; Copper Rule</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:10 P.M.</td>
<td>WASTEWATER</td>
<td>William Dowbiggin, CDM Smith</td>
<td>W, MT, PE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full-Scale Side-by-Side Comparison of</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Control Valves for DO control and ABAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:45 P.M.</td>
<td>COLLECTION &amp; DISTRIBUTION</td>
<td>Katya Bilyk, Hazen and Sawyer</td>
<td>WW, MT, PE</td>
<td>WATER</td>
</tr>
<tr>
<td></td>
<td>Predictive Analytics with Machine Learning:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Next Step in WRF Operation and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Optimization</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:20 P.M.</td>
<td>COLLECTION &amp; DISTRIBUTION</td>
<td>Alexander Palmatier, HDR W-S/Forsythe Co. Utilities</td>
<td>WW, MT, PE</td>
<td>WATER</td>
</tr>
<tr>
<td></td>
<td>The New “P” in Your Collection System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maintenance Program: Predictive Maintenance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:20 P.M.</td>
<td>WATER</td>
<td>William Dowbiggin, CDM Smith</td>
<td>W, MT, PE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced Treatment Pilot Testing for Removal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of PFAS and Other Emerging Contaminants</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3:50 P.M.-4:20 P.M. - NETWORKING BREAK/ INTERACTIVE SOLUTIONS MARKETPLACE

4:25 P.M.

**COLLECTION & DISTRIBUTION**
What are you Planning for? Design Storm Selection for the City of Durham
Brian White, Freese and Nichols
WW, MT, PE

**WASTEWATER**
Peracetic Acid: Implementing an Alternative Disinfectant for Water Resource Recovery Facilities
Jacob Van Geffen, CDM
WW, MT, PE

**WATER**
“Creating Resiliency under Pressure:” A Win-Win Solution for Cary’s Pressure Zone Management
Robert Hirt, Town of Cary, NC
W, MT, PE

5:00 P.M.

**COLLECTION & DISTRIBUTION**
Are Storms Getting More Frequent and Intense and How Can We Monitor Infiltration/Inflow? Helping OWASA Get Answers
Christine Nesbit, CDM Smith
WW, MT, PE

**WASTEWATER**
The Use of UVC-LED in the Disinfection of Wastewater Effluent
Gary Hunter, Black & Veatch
WW, MT, PE

**WATER**
Enhancing Resiliency Through America’s Water Infrastructure Act 2018 Best Practices
Christina Hurley, Stantec
W, MT, PE
The following guidelines apply when a webinar is approved for CEU's

- No partial credit will be given. You must attend the FULL session to receive the full credit.
- Attendees who wish their hours to be reported must pre-register and provide a valid certification number issued by the NCWPCSOC, NCWTFOB or NC Professional Engineers.
- Each attendee must be logged into a separate computer so that their participation may be accurately tracked.
- Attendees must be logged in at the beginning and must remain logged in through the end of the session. Attendees must promptly respond to brief quizzes that appear randomly throughout the webinar.
- After the conference, NC AWWA-WEA staff will email CEU documentation to attendees meeting the CEU requirements. Reports will also be sent to the appropriate certification boards.
- NC AWWA-WEA will report all cases of fraudulent attendance to the appropriate licensing boards.
- Inability to complete CEU requirements due to technical difficulties will result in no CEU's being issued.