102nd Annual Conference
Duluth, Minnesota
September 18-21, 2018
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WATER QUALITY + STORM WATER
WATER RESOURCE MANAGEMENT

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WELCOME TO MN AWWA'S
102nd ANNUAL CONFERENCE
DULUTH, MINNESOTA
SEPTEMBER 18-21, 2018

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<table>
<thead>
<tr>
<th>TUESDAY, SEPTEMBER 18th</th>
<th>WEDNESDAY, SEPTEMBER 19th</th>
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<tbody>
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<td><strong>Legend</strong></td>
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<tr>
<td>MNAWWA Meetings/Meals</td>
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<td>Conference Events/Sessions</td>
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<td>Social Events</td>
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<td><strong>8:00 - 8:30</strong></td>
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<td>Opening/General Session</td>
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<td>Harbor Side Ballroom</td>
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<td><strong>8:30 - 10:00</strong></td>
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<tr>
<td>Opening and Welcome by</td>
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<tr>
<td>David Brown and AWWA</td>
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<tr>
<td>Treasurer Aurel Arndt</td>
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<tr>
<td>Philanthropic Committee Update</td>
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<td><strong>8:30 - 10:00</strong></td>
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<td>Eyewitness to Climate</td>
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<td>Change Will Steger</td>
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<td><strong>11:00 - 12:15</strong></td>
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<td>Water Utility Council</td>
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<td>Meeting Room 202</td>
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<td><strong>11:15 - 12:00</strong></td>
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<tr>
<td>District Meet &amp; Greet</td>
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<td>Room 203 - open to all</td>
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<td><strong>12:00 - 2:00</strong></td>
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<td>Past Chair Luncheon</td>
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<td>Belliso’s Restaurant</td>
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<td><strong>2:00 - 3:00</strong></td>
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<td>Water for People</td>
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<td>Committee Meeting Room</td>
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<td><strong>3:00 - 3:30</strong></td>
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<td>Research Committee</td>
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<td>Meeting Room 202</td>
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<td><strong>3:30 - 4:15</strong></td>
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<td>Membership Committee</td>
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<td>Meeting Room 202</td>
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<td><strong>4:30 - 7:00</strong></td>
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<td>MAC Social</td>
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<td>The Sports Garden</td>
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<td><strong>7:00 - 9:00</strong></td>
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<td>Pre-Conference Board</td>
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<td>Meeting Black Woods</td>
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<td>Grill and Bar</td>
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<td><strong>7:00 - 10:00</strong></td>
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<td>Beer and Bags Tourney</td>
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<td>Canal Park Brewing Co.</td>
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<td><strong>7:00 - 10:00</strong></td>
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<td>Cutting Edge Solutions</td>
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<td>for Operations</td>
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<td>Maintenance City of Egan</td>
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<td><strong>9:00 - 11:15</strong></td>
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<td>Well Construction and</td>
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<td>Repair</td>
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<td>David Traut, Traut</td>
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<td><strong>10:00 - 11:15</strong></td>
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<td>Iron &amp; Manganese</td>
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<td>Removal Methods:</td>
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<td>John Thom, SEH</td>
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<td><strong>1:00 - 1:45</strong></td>
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<td>Simple Things you can</td>
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<td>do to Optimize Process</td>
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<td>at Your Treatment Plant</td>
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<td>Eric Volk, Elk River</td>
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<td><strong>2:45 - 3:30</strong></td>
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<tr>
<td>Using SCADA for Control</td>
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<td>and Troubleshooting</td>
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<td>Treatment</td>
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<td>Steve Gilberg, City of</td>
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<td>Eagan</td>
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<td><strong>3:00 - 4:15</strong></td>
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<td>Elk River Utilities</td>
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<td>relocates WM using</td>
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<td>trenchless technology</td>
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<td>on TH 10</td>
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<td>Dave Hutton and Jen</td>
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<td>Schumann, Elk River</td>
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<td>Municipal Utilities</td>
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**THURSDAY, SEPTEMBER 20th**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Continental Breakfast</td>
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<td>8:00</td>
<td>Zero Liquid Discharge (ZLD) Reverse Osmosis and the Cost of Managing the</td>
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<td>Concentrate in MN Dr. Adrian T. Hanson, UMD</td>
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<td>8:45</td>
<td>PFAS 101: What are they? How did they get here? What can we do about it?</td>
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<td>Ward Swanson, Bart Engineering</td>
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<tr>
<td>9:45</td>
<td>Improving Water Delivery with a Circulation Pump Station</td>
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<td>David Sapp, Brown and Caldwell</td>
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<td>10:30</td>
<td>Tools for Communicating Risk About Drinking Water Contaminants</td>
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<td></td>
<td>Anna Arkin and Katie Nyquist, MDH</td>
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<tr>
<td>11:15</td>
<td>Awards Luncheon and Business Meeting</td>
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<td>Harbor Side Ballroom</td>
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<tr>
<td>1:00</td>
<td>Assessment of Groundwater Supplies in Minnesota Dr. Tim Lapara, University</td>
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<td>of Minnesota</td>
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<td>1:45</td>
<td>Collection System to Tap: Direct Potable Reuse Resiliency</td>
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<td>Patti Craddock, SEH</td>
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<td>2:45</td>
<td>Cottage Grove Interim Treatment Facilities for PFC Contamination</td>
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<td>Ryan Capelle, Stantec; Jennifer Levitt and</td>
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<td>Ryan Burbidge, City of Cottage Grove</td>
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<td>3:30</td>
<td>Understand Ozonation and High pH Ozonation to Mitigate Taste and Odor</td>
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<td>Issue Geng, Chang, AE2S</td>
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<td>6:00</td>
<td>AWWA Appreciation Night Meet and Greet Harbor Side Ballroom</td>
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<td>6:30</td>
<td>AWWA Appreciation Night Station to Station Dinner Party Harbor Side</td>
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<td>7:15</td>
<td>AWWA Appreciation Night Awards Harbor Side Ballroom</td>
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<tr>
<td>8:30</td>
<td>MN AWWA Team Trivia Contest Location TBD</td>
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**FRIDAY, SEPTEMBER 21st**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00</td>
<td>Kilbom &amp; Clean Water: A Renewable Energy Utility</td>
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<td>Patrick Shea &amp; Tracy Modell, St. Cloud Public Utilities</td>
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<td>8:45</td>
<td>Mankato Water Feasibility Study</td>
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<td>Kyle Hinrichs, City of Mankato and Christopher Larson, SEH</td>
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<td>9:45</td>
<td>Organization &amp; Location in Your Water System with GIS Mapping Technology</td>
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<td>Angela Hauge, Elk River Municipal Utilities</td>
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<td>10:30</td>
<td>Model Magic!</td>
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<td>Seth Peterson and Mitchell Swanson, Bolton &amp; Menk</td>
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<td>1:00</td>
<td>City of Blaine, MN Water System: From Failure to Resiliency</td>
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<td>Jon Haukaas, City of Blaine and Michelle Stockness, Bart Engineering</td>
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<tr>
<td>1:45</td>
<td>Rebuilding Filters and Converting to Activated Carbon at Minneapolis</td>
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<td>Dale Folen, Minneapolis Water Works</td>
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<td>2:45</td>
<td>Cottage Grove Interim Treatment Facilities for PFC Contamination</td>
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<td>Ryan Capelle, Stantec; Jennifer Levitt and Ryan Burbidge, City of Cottage</td>
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<td>3:30</td>
<td>Water Hammer - Fundamentals, Protective Equipment, and Modeling</td>
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<td>Christopher Harrington, HR Green</td>
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**ANNUAL CONFERENCE PROGRAM 2018**
MEETINGS & EVENTS

TUESDAY, SEPTEMBER 18TH
9:30 am Philanthropic Sporting Clays Shooting Event: Old Vermillion Trail
11:00 am Philanthropic Golf Tournament: Lester Park Golf Club
12:30 pm Philanthropic Fishing Tournament: Boats depart from multiple marinas at 1:00 pm
7:00 pm MN AWWA Board Meeting: Black Woods Grill and Bar
7:30 pm Beer & Bags Tournament at Cahal Park Brewing Co.

WEDNESDAY, SEPTEMBER 19TH
11:00 am WUC Meeting (Room 202)
11:15 am District Meet & Greet (Room 203)
2:00 pm Philanthropic Committee Meeting (Room 202)
3:00 pm Membership Committee Meeting (Main Registration Hallway)
4:30 pm MAC Social at The Sports Garden

THURSDAY, SEPTEMBER 20TH
11:15 am Business Meeting, Lunch, Awards: Harbor Side Ballroom
4:30 pm YP Committee Meeting
6:00 pm AWWA Appreciation Night Meeting and Greet
6:30 pm AWWA Appreciation Night Station to Station Dinner Party
7:15 pm AWWA Appreciation Night Awards
8:30 pm MN AWWA Team Trivia Contest – Location TBD

FRIDAY, SEPTEMBER 21ST
11:15 am Lunch (Harbor Side Ballroom)
11:15 am Post-Conference Board Meeting and Luncheon (Room 202)

NEW This Year!
A District Meet and Greet is happening on Wednesday, September 19th from 11:15 am to 12:00 pm in room 203. All are welcome to attend! Take this opportunity to meet up with your friends and colleagues from Northwest, Northeast, Central, Metro, Southwest and Southeast Districts. District ribbons will be available at the Registration Desk.

PROGRAM

WEDNESDAY, SEPTEMBER 19TH
Opening General Session
Moderator: Dave Brown
Harbor Side Ballroom

8:00 am Opening by MN AWWA Chair, Dave Brown and AWWA Treasurer, Aurel Arndt
8:30 am Philanthropic Committee Update
Keynote Speaker: “Eyewitness to Climate Change” – Will Steger

Exhibit Hall Activities
10:00 am - 3:30 pm Vendor Exhibition Open
10:00 am - 3:30 pm Silent Auction
10:00 am and 2:00 pm Pipe Tapping Competition
10:30 am and 1:30 pm Hydrant Hysteria Competition
11:00 am Best In Glass: Water Taste Test Attendee Judging
12:00 pm Lunch in the Exhibit Hall
1:00 pm Meter Madness Competition (Exhibit Hall)
2:00 pm Water Taste Test Finals (Exhibit Hall)
4:30 pm MAC Social at The Sports Garden
4:30 pm Silent Auction continues at the MAC Social

THURSDAY, SEPTEMBER 20TH
Operations and Maintenance Track
Moderator: Joe Zauner
Room 202

8:00 am Corrosion Control: Marty Iozzo, General Corrosion Control
8:45 am Strike While the Iron is Hot - Adding Rehabilitation to Reactive Replacement: Pete Pfister, City of Minneapolis & Michael Mitchell, CDM Smith
9:45 am Cutting Edge Solutions for Operations Maintenance: Brent Massmann
10:30 am Well Construction and Repair: David Traut, Traut Well
11:15 am Annual Business Meeting, Lunch, and Awards – Harbor Side Ballroom
1:00 pm Iron & Manganese Removal Methods: John Thorn, SEH
1:45 pm Simple Things you can do to Optimize Process at Your Treatment Plant: Eric Volk, Elk River Water
2:45 pm Using SCADA for Control and Troubleshooting Treatment: Steve Gilberg, City of Eagan
3:30 pm Elk River Utilities relocates WM using trenchless technology on TH 10: Dave Hutton and Jen Schumann, Elk River Municipal Utilities
PROGRAM (continued)

Case Studies Track
Moderator: Miles Jensen
Room 301-302

- 8:00 am Kilowatts & Clean Water: A Renewable Energy Utility: Patrick Shea & Tracy Hodel, St. Cloud Public Utilities
- 8:45 am Mankato Water Feasibility Study: Kyle Hinrichs, City of Mankato
- 9:45 am Improving Water Delivery with a Circulation Pump Station: David Sapp, Brown and Caldwell
- 10:30 am 1,000 Miles of Main: Assessing Hydraulic Consequence Of Failure: Yigliola Lorang, City of Minneapolis Public Works WTDS
- 11:15 am Annual Business Meeting, Lunch, and Awards – Harbor Side Ballroom
- 1:00 pm City of Blaine, MN Water System: From Failure to Resiliency: Jon Haukaas, City of Blaine, and Michelle Stockness, Barr Engineering
- 1:45 pm Rebuilding Filters and Converting to Activated Carbon at Minneapolis: Dale Folen, Minneapolis Water Works
- 2:45 pm Cottage Grove Interim Treatment Facilities For PFC Contamination: Ryan Capelle, Stantec and Ryan Burfeind, City of Cottage Grove
- 3:30 pm Water Hammer - We All Have a Role in Ensuring Piping System Protection: Christopher Harrington, HR Green

Research Track
Moderator: Sue Lang
Room 204-205

- 8:00 am Zero Liquid Discharge (ZLD) Reverse Osmosis and the Cost of Managing the Concentrate in MN: Dr. Adrian T. Hanson, UMD
- 8:45 am PFAS 101: What are they? How did they get here? What can we do about it? - Ward Swanson, Barr Engineering
- 9:45 am Solutions for PFCs in Groundwater: Steve Nelson B&M
- 10:30 am Tools for Risk Communicating About Drinking Water Contaminants: Anna Arkin and Katie Nyquist, MDH
- 11:15 am Annual Business Meeting, Lunch, and Awards – Harbor Side Ballroom
- 1:00 pm Beginning Customer Conversations with Leak Alerts, Brett Foreman WaterSmart Software: Mark Maloney, City of Shoreview
- 1:45 pm RPU's Data Driven Approach for a Water Main Renewal and Replacement Program: Douglas Klamerus, Rochester Public Utilities; Derek Gardels, HDR
- 2:45 pm Asset Management At Work Your State and City: Brad Henry, Russ Mathys and Carol Kaszynski, U of M, City of Eagan, City of Bloomington
- 3:30 pm Real-Time Operations Management Using GIS: Allison Wheeler and Andrew Ohrt, Arcadis

FRIDAY, SEPTEMBER 21ST

Administrative/Professional Track
Moderator: Kathryn Jones
Room 301-302

- 8:30 am Results of the 1st Statewide Water Conservation Report: Carmelita Nelson MnDNR
- 9:15 am DNR Water Use Permitting: Dan Miller, MnDNR
- 9:45 am 3M Natural Resource Damage Settlement: Kirk Koudelka, MPCA
- 10:15 am Break
- 10:30 am Understanding Minnesota’s Changing Climatology: Dr. Ken Blumenfeld, U of M
- 11:30 am Lunch – Harbor Side Ballroom

PLEASE TAME YOUR DIGITAL DEVICES
Please turn off cell phones while attending all sessions. If you are unable to turn these devices off, please set them to vibrate mode and sit near an exit so you are able to leave the room before answering your phone.
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Aurel Arndt has been actively involved in AWWA and Section leadership for over 30 years, and in advocacy and water utility matters for decades. He has served on multiple occasions as a spokesperson for the Association and Section. He was Chair of AWWA’s Water Utility Council from 2012-2016. Recently retired, he served over 40 years at the Lehigh County Water Authority. Aurel was named as Lehigh County Authority’s first CEO in 2013. In the financial arena, Aurel has served as Chief Financial Officer of Lehigh County Authority from 1984 to 2012, and again in 2015. He has also been appointed by three PA Governors as a member of the Pennsylvania Municipal Retirement Board, which he chaired for eight years.

Will Steger, a polar explorer, educator, and eyewitness to the effects of climate change, has accomplished the most significant polar expeditions in history. Steger led the first confirmed dogsled journey to the North Pole without re-supply in 1986, the 1,600-mile south-north traverse of Greenland in 1988 (the longest unsupported dogsled expedition in history), and led the first dogsled traverse of Antarctica in 1989-1990 (the historic seven-month, 3,741-mile International Trans-Antarctica Expedition).

Steger joined Amelia Earhart, Robert Peary, and Roald Amundsen in receiving the National Geographic Society’s prestigious John Oliver La Gorce Medal for “Accomplishments in Geographic Exploration, in the Sciences, and Public Service to Advance International Understanding” in 1995. This was the first and only time the Society presented these three categories together. Steger holds a Bachelor of Science in geology and Master of Arts in education from the University of St. Thomas, St. Paul, Minnesota, in addition to five Honorary Doctorates.

Steger has continued his commitment to the environment and education through Climate Generation: A Will Steger Legacy, a Minneapolis based nonprofit he established in 2006 that empowers individuals and their communities to engage in solutions to climate change. Will Steger provides a credible and moral voice for climate action and the environmental and economic impacts of climate change based on his unique eyewitness account of a warming world through 50 years of Arctic exploration.

**Steger Wilderness Center, Ely MN**
Located in the Northwoods of Ely, MN close to the Boundary Waters Canoe Area Wilderness, the Steger Wilderness Center provides both the setting and the framework for facilitated meetings and experiential learning. The Center brings together leaders of all ages to consider personal and community-based solutions that will transform obstacles into opportunities. Will Steger established a Trust in 2013 to preserve his legacy, drawing on the power of a wilderness setting to bring people together and form a community to solve our most pressing problems. The Trust includes Will Steger’s archives, including his historical expedition archives, a pristine boreal forest wilderness ecosystem, and the Steger Wilderness Center, in order to provide a place for game-changing innovation in the fields of group dynamics, education, and environmental sustainability.
CHAIR-ELECT CANDIDATES

BILL SCHLUENZ
City of Waite Park

Bill Schluenz is the Public Works Director for the City of Waite Park. Bill is a graduate from Mankato State University, with a Bachelor of Science Degree in Business Management and Construction Management. He started working for the City of North Mankato’s Utility Department where he spent 16 years, working his way up from Utility Operator to Utility Foreman. Bill then took the Public Works Directors position in Waite Park, where he has been for the last 18 years. Bill leads a staff of 11 which is responsible for the water, wastewater, streets, parks, storm water, refuse and buildings. Bill has been actively involved in AWWA at the district level, from Secretary to Chair to Trustee. He managed numerous district operator schools in the central district, along with helping at the annual conference. Bill also belongs to the APWA and has volunteered at both annual conferences in Minneapolis and in New Orleans. Bill is also actively involved with State of Minnesota’s All Hazard Type III Team. He was fortunate to provided and is looking forward to being actively involved with MNAWWA Science and Economic Review Board (MESERB), a member of the Energy and Environment Advisory Committee for the Coalition of Greater Minnesota Cities, and on the Technical Advisory Committees for the Cannon and Zumbro Rivers “One Watershed, One Plan” Projects.

Looking forward, one of Bob’s goals is to work toward making Section activities more useful to utility operators, and to encourage them to become more involved in Section activities. Bob believes that the utility industry is a team effort, from the most senior manager or engineer, to the newest front line employee. He feels that the networking, educational, and social opportunities afforded by being involved with MNAWWA at all experience levels will provide benefits not only to every individual, but to our Section as a whole. This will help MNAWWA continue to be the outstanding organization that it is. In his free time Bob likes canoeing, kayaking, bicycling, woodworking, beekeeping, and playing hammer dulcimer. He and Mary Ann have been married for 43 years, and have four children, and eight grandchildren.

Bob feels that being nominated to serve as the Section Chair is humbling, gratifying, and overwhelming. He is grateful for the personal relationships and professional benefits that the Minnesota Section has provided and is looking forward to being actively involved with MNAWWA for many years to come.

BOB STARK
City of Red Wing

Bob is the Deputy Director of Public Works-Utilities (water, wastewater, and stormwater) and the Environmental Engineer for the City of Red Wing. He has been in this position for the past 10 years, and served as a consulting engineer to Red Wing for 12 years prior to his employment with the city. Some of the different areas Bob has worked in include freshwater ecological research, environmental permit review, consulting engineering and utility management. Bob holds a bachelor’s degree in biology and chemistry from Winona State University, and a master’s degree in Environmental Engineering from the University of Tennessee.

Bob has been an active member of the Minnesota Section of the American Water Works Association (MNAWWA) for the past 27 years. He has served on both the district and state levels of the Section. Bob is currently at the end of his three year term as the Southeast District Trustee. During his tenure with the Section, he has also been involved with the Water Utility Council, assisted with planning operator schools, and presented at District schools. He serves as an at-large trustee on the Minnesota Environmental Stewards, Now and into the Future.

CAST YOUR VOTE ELECTRONICALLY

The Section is conducting its election electronically for Chair-Elect. The election opened on August 24, 2018, allowing members* to cast their ballots electronically through the last two weeks. Members who did not cast their ballots before coming to the Annual Conference will be able to vote on site until 11:00 am Thursday September 20, 2018, at which time the election will close. Results will be announced at the Annual Business Meeting during lunch on Thursday, September 20.

On-site voting hours:

Wednesday September 19: 8:00 am – 3:00 pm
Thursday September 20: 8:00 am – 11:00 am

If you have not already voted, you may vote at the voting area near Registration during the above hours.

* To be eligible to vote in this election, you must be an AWWA member in good standing as of August 23, 2018.
TRUSTEE-AT-LARGE CANDIDATES

PAUL THOM
Core & Main
Paul Thom has been an AWWA Member since 1999, and served on various Minnesota AWWA committees including:
- Tapping Contest (c) 2011-2014
- Meter Madness – 2011-2014
- MAC Social Chair – 2011-2013
- Annual Conference Program Committee – 2010-2014
- Annual Conference Program Committee Chair – 2012-2014
- MN MAC member – 2010-2018
- National MAC Member – 2015-Present
- Moderator – AWWA ACE 2017 Philadelphia
- ACE Sessions Committee

Besides Minnesota AWWA conferences where I have presented multiple times at the Annual Conference and district conferences, I have also presented at AWWA and Rural Water Conferences in Wisconsin, Arizona, Georgia, Illinois, South Dakota, Colorado, New Mexico, and Montana along with a session at the National Rural Water Conference in 2016. Involved in promoting AWWA and MAC involvement from a corporate standpoint and locally with our sales people and district managers across the country to show the importance of the mission of AWWA.

Work Bio
Regional Director overseeing operations and sales activities for Core & Main’s North Region – 2018-Present
Senior Manager, Business Development – 2015-2018
Manager – Marketing – 2013-2015
Account Manager, Core & Main Minnesota District – 1998-2013

TODD OSWEILER
Rochester Public Utilities
Todd has worked in the public utility business for 23 years starting out as an intern and currently holds the position of an Environmental and Regulatory Affairs Coordinator for Rochester Public Utilities (RPU).
- Grew up in Plainview, MN (20 miles NE of Rochester)

- AWWA member since 2013 (I was always part of the utility membership for AWWA but joined as an individual in 2013)
- Graduated in 1997 from UW-River Falls with a B.S. degree in Conservation
- Worked with RPU for 23 years, starting as an intern in 1995
- Hired on full-time with Rochester Public Utilities as an Environmental Analyst in 1998
- Current position – Environmental and Regulatory Affairs Coordinator
- One daughter, Elise, who is currently enrolled at UW-Milwaukee studying architecture
- Actively participate by presenting on various topics at the MN AWWA SE District Water Operators School

Work Related Projects
Water Sustainability
- As the local entity charged with providing safe and high quality water to the residents and visitors of Rochester, RPU has invested significant resources into understanding the geology and hydrogeology of the aquifers that supply our water system. A new focus has been put on water sustainability to further investigate our understanding on the quantity of groundwater in the Rochester area.
- As the city of Rochester continues to grow, Todd has lead RPU’s proactive efforts in water sustainability since 2015.

Water Conservation
- Todd has been a leader to help improve RPU’s Water conservation program by putting an emphasis on education and community outreach as well as; rebates, leak detection and water conservation rates.

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COMPEITITIONS:
WEDNESDAY IN THE VENDOR HALL

Competition Schedule:
10:00 am and 2:00 pm  Pipe Tapping
10:30 am and 1:30 pm  Hydrant Hysteria
11:00 am  Best in Glass Water Taste Test Attendee Judging
1:00 pm  Meter Madness
2:00 pm  Best in Glass Water Taste Test Final Judging

Thank you to all the sponsors and supporters of our competitions!

Pipe Tapping
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Hydrant Hysteria
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“BEST IN GLASS” 2018 MN AWWA WATER TASTE TEST
Sponsored by AE2S - Advanced Engineering

Judging will begin at approximately 11:00 am on Wednesday, September 19th. The contest involves two rounds of judging. The first round will be the selection of the top three water samples by popular vote of the conference participants. These three will enter the final round along with the People’s Choice Award winner from the Minnesota State Fair. A panel of taste testing experts will determine the “Best In Glass” winner and crown the MN AWWA State Champion. The winner will take home a traveling trophy and a wall plaque as well bragging rights for the next year. In addition, the winning municipality will represent MN AWWA with a sample at the AWWA “Best of the Best” competition being hosted at ACE.

Samples should be delivered to the Conference Registration Desk on September 19, 2018 no later than 10:00 am. All water samples will be judged at room temperature. If samples do not reach room temperature by 10:45 am, the sample will not be admitted into the contest. Room temperature for this contest is defined as 68 - 74 degrees Fahrenheit. All qualified entries will be accepted, but only a “Best In Glass” winner that has incurred no state or federal drinking water violations during the previous calendar year and is an AWWA member will be eligible to submit a sample to the ACE “Best of the Best” Water Taste Test at the AWWA Annual Conference (ACE).
### EXHIBITORS LIST
Registered as of August 23, 2018.

- Advanced Drainage Systems
- AE2S
- AMERICAN Ductile Iron Pipe
- Apex Engineering Group
- Badger Meter
- Barr Engineering Company
- Berg-Johnson Associates
- Bolton & Menk, Inc.
- Coating Resources Inc.
- Core & Main
- Dakota Supply Group
- DIPRA
- DN Tanks
- Donohue & Associates, Inc.
- Downhole Well Services, LLC
- E.H. Renner & Sons, Inc.
- Engineered Sales Co.
- Eurofins Eaton Analytical, LLC
- Fer-Pal Construction USA, LLC
- Ferguson Waterworks
- Fischer, Harris & Associates
- Ford Meter Box Company, Inc.
- Great Northern Environmental
- Great Plains Structures
- Hach
- Hawkins Inc.
- HDR
- HR Green
- Hydro-Klean
- Hydrocorp
- Ideal Service Inc.
- IDEXX Laboratories, Inc.
- In Control
- Insituform
- ISG
- J&W Instruments
- KLM Engineering, Inc.
- Kodru - Mooney
- Larson Data Communications
- Leggette Brashears & Graham
- M.E. Simpson Company, Inc.
- Macqueen Equipment
- Mark J. Traut Wells, Inc.
- Master Companies
- Metering & Technology Solutions
- Midland GIS Solutions
- Miller Mechanical Specialties
- Minnesota Department of Health
- MIOX
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- Mueller Systems MN
- Novaspect
- Opus21
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- Public Works Sales Holding
- Pure Technologies US Inc.
- R & H Painting, LLC
- Sambatek, Inc.
- Sewerin / Leak Locators of Montana
- Sherwin Williams
- SJE-Primex
- SL-serco, Inc.
- Stantec Consulting Services
- SwedeBro
- Thermo Fisher Scientific
- Thermofisher Scientific Inc.
- TKDA
- Tonka Water, a U.S. Water Brand
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CONTACT HOURS AND CERTIFICATION

The Minnesota Section AWWA Conference provides licensed operators with Direct Contact Hours. Professional Engineers can obtain PDHs for professional license renewal based on attendance of sessions.

Attendees who require PDHs should be aware of the following information about proof of credits and audits:

According to the Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geosciences, and Interior Design (AELSLAGID), normal renewal forms only require the total number of PDH or CEU hours attended. They don’t require proof unless audited. The audit rate for AELSLAGID is approximately 2% of all applicants (in 2012, they audited 278 people).

If audited, the Audit Committee then requires the applicant to provide:

- Proof of attendance (usually by registration form + receipt)
- Information on the sessions/training they attended (this can be a certificate with total number of PDHs/CEUs printed on it, or a conference bulletin with the session description listing the number of PDH or CEUs, or with session descriptions that provide enough information for the auditor to evaluate if it met the professional requirements).

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CONFERENCE AWARDS & RECOGNITION

Fuller Award
George Warren Fuller was a capable engineer, an inventive technician, a skilled negotiator, a loyal citizen, and an inspirational leader who believed in the organization and assembly of technical and professional men and devoted himself fully to the advancement of their associations and societies to the end that they serve better through planned action and cooperation. Last year’s recipient was Patrick Shea.

Thompson Award
The Leonard N. Thompson Award is made annually to a section member who typifies the standards of excellence that were emblematic of Thompson’s contributions to the Section and the water supply industry. Last year’s recipient was Steve Schneider.

Meritorious Service Award
The meritorious service award recognizes special performance in one or more of the following areas: continuous compliance with public health standards in finished water; consistent and outstanding contribution to plant maintenance; development of equipment or process modifications to provide for a more efficient or effective treatment; special efforts in the training of operators; special acts not directly related to water system operations, but which demonstrate dedication to the public beyond the normal operating responsibilities; consistent and outstanding contribution or operation and/or maintenance of distribution lines, pump stations, and reservoirs. Last year’s recipient was Roger Hagman.

Jon Eaton Excellence in Volunteering Award
The purpose of this award is to recognize a MN AWWA member who is exemplary in volunteering their time to the Minnesota Section through active participation in programs or service on a committee, council or district. Last year’s recipient was Brian LeMon.

David B. Morris Scholarship
MN AWWA’s David B. Morris Scholarship Fund is used to support education through scholarships that help advance the technology needed for providing safe drinking water to the people of Minnesota. In a broader sense, it encourages more young people to become involved in the professional and technical needs of the industry. Your gift, in any amount, is appreciated. It benefits not only the individuals receiving scholarships, but it serves and advances the future of the water works profession as well.

All gifts to the David B. Morris Scholarship Fund will remain in trust with only the proceeds earned being distributed to support appropriate candidates studying in any field beneficial to the water supply industry of Minnesota. The primary objective is to progressively increase the endowment so that scholarships can be expanded in the following areas: vocational technical training in operations, professional studies in science or engineering, and advanced studies or applicable research in water-related areas. Specific recommendations on appropriate programs or recipients will remain the responsibility of the Section’s Scholarship Committee.

Andrew Sullivan Award for Outstanding Leadership
This award is named for Andrew Sullivan, who was honored for Outstanding Leadership in Developing “Liquid Assets Minnesota,” a local follow-up documentary film to the national Liquid Assets program, which highlighted issues related to infrastructure in drinking water, wastewater, and stormwater. The program calls attention to the vital need to maintain infrastructure and the investments needed to do so. Mr. Sullivan spearheaded the effort to make this a local Minnesota initiative and in doing so, showed incredible initiative and Leadership. This award is intended to honor individuals who demonstrate such qualities. The most recent winner of this award was Uma Vempati, for his dedication and effort in helping the Association’s launch of AWWA India.
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# MEMBER RECOGNITION

**Congratulations Award Recipients**
To honor our long-serving and dedicated members, AWWA bestows certain awards for accumulated years of membership:

- **Life Member Awards** are presented to members who have achieved 30 cumulative years of AWWA membership and are at least 65 years of age.
- **Silver Water Drop Awards** are presented to members who have achieved 25 years of cumulative AWWA membership.
- **Gold Water Drop Awards** are presented to members who have achieve 50 cumulative years of AWWA membership.

Please join us in recognizing this year's Life, Gold and Silver Water Drop Awards:

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<tr>
<th>Life Member Award</th>
<th>Silver Water Drop Award</th>
<th>Gold Water Drop Award</th>
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<td>David M. Waldoch</td>
<td>Keven Maxa</td>
<td>Dennis R. Martenson</td>
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<td>Thomas J. Mettler</td>
<td>Brian R. Bergantine,</td>
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<td>Herman A. Dharmaraj</td>
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ATTENDEE APPRECIATION DINNER

NEW FORMAT THIS YEAR featuring a station-to-station dinner party!
Thursday September 20
Harbor Side Ballroom
Meet and Greet Reception: 6:00 pm
Station-to-Station Dinner: 6:30 pm
Awards Presentation: 7:15 pm

Based upon your feedback, we have revised the format for our annual Member Appreciation Dinner. Please join us for a casual evening networking reception and station-to-station dinner party to celebrate the accomplishments of our peers. We will honor recipients of the prestigious George Warren Fuller, Leonard M. Thompson, and Jon Eaton Volunteer of the Year awards.

YOUNG PROFESSIONALS’ TEAM TRIVIA EVENT

Everyone’s Invited!
Location TBD
Donations encouraged

Everyone is invited to join the Young Professionals Committee after the Attendee Appreciation Dinner for Team Trivia!
The Trivia Event will take place immediately after the Attendee Appreciation Dinner, for games, fun and lots of laughs. There is no cost for this event, although donations are encouraged and gratefully accepted! Donations made at the YP Team Trivia event will support the David Morris Endowment Fund.
The David B. Morris Endowment Fund is used to support education through scholarships that help advance the technology needed for providing safe drinking water to people in Minnesota. The primary objective is to increase the endowment so that scholarships will include vocational technical training in operations, professional studies in science or engineering, and advanced studies or applicable research in water-related areas.

SILENT AUCTION

The MN Section AWWA is pleased to announce that it will hold a Silent Auction during the exhibitor show on Wednesday September 19, 2018 and will close at the MAC Social Event at The Sports Garden.

Credit card payments will be accepted!
A complete list of auction items will be available at the Registration area.
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Phone

Email

Were you referred by an AWWA member  □ Yes  □ No

Referring Member Name  Email

Gender  □ Male  □ Female  (Optional)

Birth Year  (Optional)

Annual Dues (A1)

□ Individual Active  $202
   An individual, such as a water utility employee, municipal official, public health professional, engineer, scientist, educator, consultant, or other person interested in or serving in the field of water supply. (02)

□ Young Professional  $109
   A special discount on first-year dues for individuals interested in or serving in the field of water supply, who are age 35 or younger. (YP2018)

□ Operations/Administrative  $79
   Any operations and administrative staff below the supervisory level at a utility with more than 1,000 service connections. Any staff member at a utility with fewer than 1,000 service connections. (06)

□ Student  $20
   A degree-seeking individual attending an accredited educational institution enrolled in the number of hours required by the institution for half-time or full-time status. (14)

Additional Sections (A2)

In addition to your primary Section, you may join other AWWA Sections. There is a $33 multi-section fee, plus the dues for the other Sections as appropriate. Please call 1.800.926.7337 for more information.

Payment

Annual Dues (A1)  □  $ _________________

Additional Sections* (A2)  □  $ _________________

*If applicable  Total  □  $ __________________

Payment Method

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□ American Express  □ MasterCard  □ Discover  □ Visa

Card Holder Name

Card Number

Expiration Date

Your membership will be activated when payment is received.

By joining AWWA, you grant the association, through implied consent, authorization to send you commercial electronic messages. Your communication preferences can be updated at any time at www.awwa.org under “My Account.”
Tell Us About Yourself All applicants must complete this section.

What one business activity best describes your company? (Please check only one)

- [ ] A Public Water Supply Utility—Municipally Owned
- [ ] B Public Water Supply Utility—Investor Owned
- [ ] C Government—Federal, State, Local
- [ ] D Consulting Firm
- [ ] E Contractor
- [ ] F Private Industrial System or Water Wholesaler
- [ ] G Manufacturer of Equipment & Supplies (including representatives)
- [ ] H Distributor of Equipment & Supplies (including representatives)
- [ ] I Educational Institutions (faculty & students), Libraries and other related organizations
- [ ] J Fully Retired
- [ ] K Research Lab
- [ ] L Other allied to the field (please specify) ____________________________

What one category best describes your company’s field served/principal activity? (Please check only one)

- [ ] 9 Both Water Supply & Wastewater
- [ ] 5 Water Supply Only
- [ ] 7 Wastewater Only
- [ ] 3 Other

What one category best describes your job title? (Please check only one)

- [ ] A Executive (General Manager, Commissioner, Board Member, City Manager, Municipal Supt., Mayor, President, Vice President, Owner, Partner, Director, etc.)
- [ ] B Management/Non-Engineering (Division Head, Section Head, Manager, Dept. Head, Comptroller, etc.)
- [ ] C Design and Engineering/Both Managerial and Non-Managerial (Chief Engineer, Civil Engineer, Mechanical Engineer, Elect. Engineer, Environmental Engineer, Planning Manager, Field Engineer, System Designer, etc.)
- [ ] D Scientific/Non-Managerial (Chemist, Biologist, Biophysicist, Researcher, Analyst, etc.)
- [ ] E Purchasing (Purchasing Agent, Procurement Specialist, Buyer, etc.)
- [ ] F Operations (Foreman, Operator, Maintenance Crewman, Service Representative, etc.)
- [ ] G Marketing & Sales/Non-Managerial (Market Analyst, Marketing Representative, Salesperson, Sales Representative, etc.)
- [ ] I Professorial (Educator, Teacher, etc.)
- [ ] Z Other (please specify) ____________________________________________

What areas of the water and wastewater industry are of current interest to you? (Please check all that apply)

- [ ] Asset Management
- [ ] Backflow/Cross Connection
- [ ] Climate Change
- [ ] Conservation/Efficiency
- [ ] Customer Service
- [ ] Desalination
- [ ] Design/Construction
- [ ] Distribution/Plant Ops.
- [ ] Drought
- [ ] Emergency Preparedness/Security
- [ ] Groundwater
- [ ] Laboratory
- [ ] Membrane Treatment
- [ ] Public Health
- [ ] Public Info./Communications
- [ ] Regulatory Issues
- [ ] Reuse
- [ ] Small Systems
- [ ] Stormwater
- [ ] Training/Career Development
- [ ] Utility Management
- [ ] Wastewater
- [ ] Water Loss
- [ ] Water Quality/Treatment
- [ ] Water Research
- [ ] Water Resources/Planning
- [ ] Workforce Strategies
- [ ] Young Professionals

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CITY OF GRAND MARAIS’

Successful

WASTEWATER TREATMENT PLANT
SLUDGE REDUCTION PROGRAM
USING TEAM LAB’S
T197 MEGA BUGS HC

GOAL: To reduce the volume and pounds of biosolids to be disposed

PROGRAM: Team Lab’s T197 Mega Bugs HC

SUCCESSFUL RESULTS:

♦ Excellent settling enabled Grand Marais to decant for the first time in 26 years
♦ 2017 - Decanted 251,150 gallons
♦ Savings to the city of $26,197!
♦ Also saw a decrease in electrical consumption due to a reduction in blowers’ runtime

CITY OF BROWERVILLE’S

Successful

STABILIZATION POND
“ISLAND”
SLUDGE REDUCTION
PROGRAM USING
TEAM LAB’S
T195 MEGA BUGS PLUS

Problem: 200 ft X 100 ft sludge island
Solution: Team Lab’s sludge reduction bug program
Location: Browerville, MN

City of Browerville was faced with the “sludge island” and started Team Lab’s T195 Mega Bugs Plus Bioaugmentation Program to see if the “sludge island” could be reduced.

SUCCESSFUL RESULTS:

♦ Reduced Sludge
♦ Improved Settling
♦ Reduced Odors
♦ Improved Effluent Quality

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