THE CELEBRATION OF A CENTURY

MNAWWA’s 100th Annual Conference

Roaming With Water Buffalos
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Safeguarding Minnesota’s Water Future
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Specifying Glass-Fused-to-Steel tanks means specifying the lowest total life cycle cost to tank owners. No other tank company can match the longevity and quality of our low maintenance tanks that can be constructed in 1/3 of the time it takes to build concrete and welded tanks, and we do it with our own expert crews.

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CREATING INFRASTRUCTURE
Extensive analysis and evaluation of existing conditions is the prime factor in determining sustainable infrastructure solutions.

CONTINUING THE LEGACY
From surface/groundwater supply systems and water/wastewater treatment to distribution, collection, and storm sewer infrastructure, the possibilities are endless.

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ISG is a multi-disciplinary firm with over 40 years of experience providing innovative and responsive water supply, wastewater collection, and water/wastewater treatment services for clients across the Midwest.

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Mankato, MN
Des Moines, IA

Storm Lake, IA
Algona, IA
La Crosse, WI

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Meet the first water meter with an integrated three-state valve.

New Sensus ally™ is the first meter in the industry with remote on, off and reduced flow capabilities built into the design. Allowing you to control flow like never before. Turning water on and off remotely not only saves time and money on truck rolls, but also increases response time. And with the ability to reduce flow you can minimize exposure of lost revenue. This game-changing meter is also equipped with pressure and temperature sensors. Giving you more insight into your distribution system. So Sensus ally is far more than a meter. It’s your partner in the field.

Nothing’s out of reach.

To learn more about our three-state valve technology, visit sensus.com/ally.
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Message from the Chair

MNAWWA: A Section Worth Celebrating

Jim Sadler

Our 100th MNAWWA Conference in Duluth (September 20–23) is just around the corner. Many activities are planned, so please check our website for all the event details.

I just returned from ACE16 in Chicago. Several members gave presentations during the conference. During the opening session the MNAWWA Section was recognized for our 100th year. The Section was active, and award-winning, at this year’s event, including:

• City of Bloomington – the “Water Taste” contest winner and “Meter Madness” participant
• City of Minneapolis – the 2016 AWWA Diversity Award winner
• City of St. Paul – the third-place finisher in “Hydrant Hysteria” and
• Bert Tracy, who received the Fuller Award

Uma Vempati’s article, “Workforce Diversity,” was featured in the June AWWA Journal. Michelle Stockness has been working with the Smithsonian Traveling Museum, which opened in New London/Spicer at the Prairie Woods Environmental Learning Center. More information on the museum and further details can be found on their website at www.mnhum.org/waterways.

Thank you to all members who volunteer their time and talents to make this MNAWWA Section an organization that you want to be a part of. I also want to thank our District Trustees, Council Chairs, members, and MAC members. Your countless hours dedicated to the organization make all this possible. We can always use new members, so let our voices be heard. Extend a hand and invite someone new to join our ranks.

Enjoy the summer with family and friends by attending your local fairs and the State Fair. See you all in Duluth this September.

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Represented in Minnesota by Great Northern Environmental.
This June, I completed my first year as Vice-President of AWWA. I visited the Nebraska, Mexico, and New Jersey Section meetings, lead the Region 4 Meeting of Section Officers, and attended a number of Association/Section meetings. Uma Vempati, Director at Large, is well established on the Diversity and Member Inclusion Committee (DMIC) and has made significant contributions to the Association both in the U.S. and India. Engaging with others, establishing new friendships, discussing complex issues, learning from successes and failures, and bringing that knowledge and those experiences back to the Association and Section has certainly benefited everyone (the Association, Section, and both Uma and me).

Uma and I look forward to representing the Minnesota Section, leading the Association, and further participating in the future direction of the Association. Again, many thanks to our employers, the Minnesota Section, and our families for allowing us this opportunity.

ACE
The Annual Conference and Exposition (ACE) was again modified slightly at the request of the exhibitors; a number of participant attractions (like the bookstore and Association meeting areas) were moved inside the exhibition. Overall, the weekend workshops, exhibition, and conference were well attended (attendance was over 11,600 and more than 1,100 exhibition booths were sold) and earned positive reviews.

It was nice to see so many Section members at the Flow & Santos luncheon. Here is one getting a massage in the exhibition . . . look at all that swag by his side!

Congratulations to . . .
Bert Tracy, who received the Fuller Award.

Minneapolis Water Works (MWW), which received the AWWA Diversity Award.

The honor recognizes the essential role diversity plays to the growth, structure, and continued success of any organization. Diversity should be an inherent trait of any organization, and manifest in the mosaic of people who bring a variety of backgrounds, perspectives, values, and beliefs as assets to a group or organization in which they interact. The Diversity Award is not given to an individual, group, or organization on the basis of who they are, but because of their achievements and accomplishments.

City of Bloomington, for winning the Best in Taste competition. The city of Iola, KS, took second place and the village of Canajoharie, NY, nabbed third in the competition, which was sponsored by Avista Technologies, Inc. All of the two dozen semi-finalists had won regional contests.

Tony White, from the city of Burnsville, who presented “Monitoring
POTABLE WATER MIXING/ICE PREVENTION
“These mixers give peace of mind, especially in winter.”
Cary Johnson, water operations mgr., Rochester Public Utilities, Rochester, Minnesota

POTABLE WATER/THM REMOVAL
“GridBee in-tank aeration is effective and affordable.”
Tony Linder, WTP division chief, Dept. of Water Supply, County of Maui, Hawaii

WASTEWATER MIXING/BASINS AND LAGOONS
“We reduced our nitrate levels and lowered our energy costs.”
John Willis, wastewater plant supervisor, Ventura, California

WASTEWATER MIXING/WET WELLS
“Don’t let wipes clog your pumps.”
Curtis Roeth, foreman, Sewer Dept., Cromwell, Connecticut

LAKES AND RAW WATER
“We reduced WTP operating costs caused by algae blooms.”
James A. Brown, water production manager, Newton County, Georgia

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Source Water to Improve Plant Processes and Drinking Water Quality” at the ACE16 Young Professional / Student Fresh Ideas Poster competition.

And the Minnesota Section members who gave technical presentations and competed in the competitions (Meter Madness, Pipe Tapping, and Hydrant Hysteria) . . . Nice job everyone!

Water Buffalos
Alex Hood (Buffalo member number 40) announced that 32 bikes rode down Michigan Ave to attend ACE and bring donations to Water For People. In total, 35 riders participated, 49 vacation days were taken, 136 days were spent on the road, 910 gallons of gas were consumed, 33,600 miles were traveled, and the effort has raised $126,000 this year (so far) for Water For People. Thanks and congratulations!

The Minnesota Section is proud to have two new Water Buffalos in the Section (Carol Blommel-Johnson, number 92) and her husband (Dwayne Johnson, number 93). See page 38 for Carol’s full story.

In the 11 years of the organizations existence, just shy of one million dollars has been raised and donated to Water For People.

Our Association . . . continues to thrive!
Membership has continued to steadily grow, increasing annually for the past three years. We have stayed above 50,000 members for 16 of the past 18 months, and 55% of Sections have continued to grow (45% have been steady or declined slightly).

Financially, the Association continues to do well (slow, steady growth). The budget is on track, and the financial position is excellent, even though additional work associated with the Flint, MI, lead crisis had to be done.

Strategic Plan
In 2015, the Strategic Planning Committee (SPC) was asked to update and review AWWA’s 2013 Strategic Plan. At the 2016 Winter Board Meeting, the Board went through an exercise to provide feedback on the current Core Principles and potential changes that had been developed by the SPC. The exercise had Board members discuss the Core Principles, suggest changes, deletions, and additions, and then rank the results.

The results of the Core Principles exercise were provided to the SPC, which then updated the Core Principles as follows:
• Protect Public Health
• Safeguard the Environment
• Share Best Practices
• Inspire Innovation
• Foster Diversity and Inclusion
The 2013 Strategic Plan was updated and approved by the Board of Directors and the June 2016 meeting.

AWWA 2020
Section Branding – Two years ago, the Board was introduced to the goals and the Association was rebranding itself. As part of AWWA 2020, the Sections were asked to participate so the organization as a whole looked similar (identity of one organization). As of today, all but two sections have completed the task.

Operator Scholarship – This is a business partnership between the Association and Section, and part of the philanthropic initiative. Twenty-nine of the 43 Sections are participating in the scholarship to promote a new workforce.

Total Water Solutions
The Association has accelerated the creation of a Policy Statement on lead service line management and standard service line flushing to minimize lead exposure. The drafts are expected to be approved by the EC in the fall, and by the full board in January 2017. These time lines are significantly reduced compared with the normal pace, but are needed to meet the public health need.

Future Association President
The Association Board listened to the President-Elect candidate speech at the ACE board meeting. The candidate will give a second speech at the upcoming winter board meeting in January before the formal election takes place (at the same meeting). The President-Elect candidate is David Rager from the Ohio Section.

International Programs
International programs have increased steadily since 2014. Today, over 1,100 international members are part of AWWA, the India office has been open for a year; they had 17 members in 2013 and now have 133, three of which are service providers, including Black & Veatch. Their conference attendance has grown from two (in 2013) to 43 (this year).

Questions?
As always, if you have any questions about the Association, please contact me via email at jeaton@cityofeagan.com. See you at the 100th MNAWWA Fall Conference!

“If you have any questions about the Association, please contact me via email at jeaton@cityofeagan.com”

Attention Minnesota Section AWWA Members
Proposed Bylaws Change
The Section Board is proposing changes to the Minnesota Section Bylaws. The changes include required updates by the Association, reduction of redundant language, and Section operational changes over the past seven years.

The Board will discuss these changes at the February 2016 and April 2016 Board meetings. You need to read the information carefully, express your concerns to your district trustee or any executive board member, and be prepared to vote on this issue in September 2016.

The requested amendments are posted on the Section Website.
Your careful consideration of this issue – and your vote – are requested.
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Customer-focused, timely solutions, every time

Capabilities include:

- Expanded warehouse capacity
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- Full field retrofit capability
- Custom valve adaption and extension fabrication
- Pipeline surge analysis
- Fully staffed field service department for start-up services, installation assistance and field troubleshooting/repair.

We are excited about our changes and are eager to share them with you!
Contact us today at (952) 941-2678 or valves@vessco.com

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Customer driven, by design
The Truth About Duluth

Going to Duluth for the big bash?
What you may know about Duluth:
It gets really cold in the winter.
It has a lot of hills, a big lake, and a cool lift bridge.
Glensheen (the Congdon mansion) became a hit on the tour scene because of the 1977 murders there.
Brett Hull played for the University of Minnesota, Duluth, hockey team.
What you may not know:
One out of seven residents is employed in the medical field, and the city has more than 400 physicians. So go ahead and get sick there.
The extension of Interstate 35 in the early 1990s not only provided needed function (a fast way to get through a narrow area), it enhanced access to Lake Superior, and created more lakeshore with fill taken from the excavation for the freeway.
Hall of Fame pitcher Randy Johnson’s parents are buried in Duluth.
The Duluth Dukes baseball team was involved in a deadly bus crash in the Twin Cities in 1948. The team played its home games at Wade Stadium at that time. Wade Stadium is still standing and is used by the Duluth Huskies of the Northwoods League.
Joe DiMaggio’s first wife was born in Duluth.
The victims of a 1920 lynching were buried in unmarked graves at Park Hill Cemetery until groups called attention to the situation. Isaac McGhie, Elmer Jackson, and Elias Clayton now have individual markers, each inscribed with their name and “Deterred but Not Defeated.” The site of the tragedy, at East First Street and Second Avenue, now has a memorial worth visiting.
Have fun in Duluth.

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ELEMENTS OF YOUR SUCCESS
These elements make up the structure of AE2S. What does that mean to you? Extreme client service, trusted relationships, a shared vision for your future, and passion for every project. They all translate into your success.

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Ferguson Waterworks is a leading national supplier of top water meter brands, providing agencies and departments with a steady flow of data and productivity. With the latest technology and product support for Automated Meter Reading and Advanced Metering Infrastructure solutions, we’re ready to put our knowledgeable associates and expert installation capabilities to work for you.

We offer technology assistance, in-house installation, product accessories, and service after the sale to ensure your total satisfaction.
SPECIAL EVENTS

OPENING KEYNOTE SPEAKERS

David LaFrance, AWWA CEO
Steve Maxwell, author of "The Future of Water"

CLYDE IRONWORKS RECEPTION & BREWERY CIRCUIT*

This year, as a special event for our 100th Anniversary Conference, MNAWWA is pleased to offer Conference Attendees the opportunity to attend a reception at the historic Clyde Ironworks on Wednesday September 21, 2016.

Get an inside look at one of Duluth’s historic landmarks, enjoy food, beverages, and networking with your MNAWWA friends and colleagues. The reception is included with all Full Conference Registrations, Wednesday-Only Registrations, and Vendor/Booth Registrations.

Preliminary timeline for the Clyde Ironworks Reception and Duluth Brewery circuit:

4:30 - 5:30 pm: Load buses at designated location in Canal Park; buses shuttle guests to Clyde Ironworks (rotation format)

5:00 - 7:00 pm: Reception at Clyde Ironworks

6:30 - 7:00 pm: Buses available to shuttle guests who wish to return to Canal Park

7:00 - 10:00 pm: Brewery circuit – Guests can rotate to three local establishments via our shuttle service

* This special reception is made possible by the efforts of the MNAWWA Manufacturers & Associates Council.

ABOUT THE CLYDE IRONWORKS

Established in 1889, the original Clyde Iron Works was a steel foundry and manufacturer of heavy machinery such as the Whirley crane, skidders, yarders, hoists and derricks used in the booming logging industry. Clyde was once instrumental in completing well-known projects such as the Panama Canal, the Empire State Building and the Golden Gate Bridge. Although Clyde’s manufacturing days are a memory, our presence honors the American worker of yesterday and today.

Congratulations to the Minnesota Section on your 100th Anniversary.

Thank you for your dedication – past, present and future – to the water industry.

We look forward to working together for another 100 years.
WATER MUSEUM

As the Minnesota Section AWWA celebrates its 100th Anniversary, help us commemorate our history of providing safe water to the North Star State by contributing items to the Water Museum!

The Museum will be featured during the Annual Conference in Duluth September 20-23, 2016.

We are seeking items such as:
- Old hydrants, pumps, or valves
- Old water meters
- Gauges, laboratory or mechanical equipment
- Wooden or other old pipes
- Old maps, plans or drawings
- Old water treatment books, manuals, magazines or product advertisements
- Old photos showing projects, water tanks, or other significant/interesting water history
- Any other historical items you think might be interesting to conference attendees!

BE PART OF THIS HISTORIC EVENT!

HOW TO CONTRIBUTE
To contribute an item, contact Steve Schneider at steve.schneider@ci.stpaul.mn.us. Please provide a description of the item, including approximate dimensions and weight, a photo of the item, and any other information about historical significance.

BE A MUSEUM CURATOR
If you are a seasoned or retired water professional, please consider helping at the Conference by volunteering a few hours at the museum to help answer questions and provide historical and background information about the water industry. To be a curator, contact Carol Kaszynski at ckszynski@bloomingtonmn.gov.

SPouse-GUEST PROGRAM

WEDNESDAY, SEPTEMBER 21
9:00 am: Meet & Greet in Eagle Harbor conference room at The Inn on Lake Superior
10:00 am: Fall floral décor making
12:00 pm: LUNCH (location TBD)
2:00 pm: Essential oil event
4:00 pm: As part of the Conference, all spouses/guests may attend the Clyde Ironworks Reception

THURSDAY, SEPTEMBER 22
10:00 am: Tour the Rustic Olive
12:00 pm: LUNCH (location TBD)
6:00 pm: As part of the Conference, all spouses/guests may attend the Reception and Attendee Appreciation Dinner

Have questions about registering a spouse or guest? Contact Mona Cavalcoli at mnawwa.mona@gmail.com.
CALL FOR EXHIBITORS

BENEFIT FROM BEING A MNAWWA CONFERENCE EXHIBITOR!

This is the best chance you’ll have all year to make high-quality contact with new and existing clients in Minnesota.

- Exhibitors registered by August 15, will be recognized in the Conference Program.
- MNAWWA will provide Exhibitors with a FREE list of Conference Attendees.
- Show off your goods and services while boosting the David B. Morris Scholarship Fund.
- Make your support of MNAWWA highly visible to its members.

REGISTER ONLINE FOR 2016

Link
www.mnawwa.org/event/2016AnnualConference

SPONSORS RECEIVE ADDITIONAL BENEFITS:

- Sponsors have first priority in Trade Show booth assignments.
- Sponsors receive recognition throughout the Conference via Conference signage, a prominent thank-you in the Conference Program, and recognition during the Appreciation Dinner.
- Sponsors are appreciated as being supporters of MNAWWA at the highest level.

CONFERENCE SPONSORS TO DATE:

- AE2S
- Apex Engineering
- Barr Engineering
- Bolton & Menk
- Engineering America
- HDR
- HD Supply
- HR Green
- Hydro Corp
- KLM Engineering
- M.E. Simpson Co., Inc
- Moore Engineering
- Short Elliott Hendrickson
- Stantec
- TKDA
- Treatment Resources
- WSB & Associates

NOTE
No written materials will be mailed out. All documentation, materials, and application form will be made available via the MNAWWA website.
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CONFERENCE LOCATION
Duluth Entertainment Convention Center (DECC)
350 Harbor Drive, Duluth, MN 55802-2698
Tel: 800-628-8385 ext. 208
Web: www.decc.org / Email: aeberhart@decc.org

EXHIBITING SCHEDULE
(Wednesday, Sept. 21)
Exhibit booth setup.....................................................7 – 9 am
Exhibition ..................................................10:15 am – 3:30 pm
(Breaks and lunch in Exhibition W/Raffle)
Meter Madness .....................................................1 – 2:15 pm
Exhibit booth teardown ..........................................3:30 – 4 pm

BOOTH DESCRIPTION
• 8’ x 10’ space, piped and draped
• 8’ x 30” skirted display table and two chairs
• Rigging available, trailers allowed

BOOTH COSTS
Member (includes two Exhibitor Registrations): $345
Non-member (includes two Exhibitor Registrations): $500
Each additional Exhibitor Registration: $60

An Exhibitor Registration includes access to vendor show, lunch, and the Wednesday evening social for TWO people. The Exhibitor Registration does NOT include admission to the rest of the conference or Thursday evening appreciation dinner. Conference registration must be purchased separately.

110 volt electrical services are available for an additional $55. (Call MNAWWA office if you have electrical needs greater than 110 volts.) Please be sure to indicate how many outlets you will need.

BOOTH LOCATION ASSIGNMENTS
Conference sponsors’ preferences are given first priority, then booths are assigned on a first-come, first-served basis. MNAWWA reserves the right to alter Trade Show layout and vendor locations. Indicate your first, second, and third choices for booth location. No private room displays. See floor plan for booth locations.

SUBLETTING OF BOOTH SPACE
No portion of any booth may be sublet or assigned to any other firm or person(s).

FIRE AND SAFETY CODES
Each booth operator must comply with all federal, state, local, and DECC fire and safety codes.

INSURANCE
It is agreed that in no case shall MNAWWA or its officers or directors be responsible for any loss, theft, damage by fire, or injury to any person or article as a direct or indirect result of their participation in the show.

LIABILITY
Each booth operator assumes responsibility for the space leased during the trade show and will keep it free from hazards to persons on the premises. MNAWWA will not be responsible for any injury that may occur to booth operators, their associates or employees.

FOOD AND BEVERAGES
DECC does not allow the selling or distribution of any food or beverages from display booths unless purchased directly from DECC. For more information, contact Annette Eberhart, Director of Event Planning, at 800-628-8385 ext. 208.

TO SHIP MATERIALS
You may ship directly to:
Duluth Entertainment Convention Center (DECC)
350 Harbor Drive, Duluth, MN 55802-2698
Tel: 800-628-8385 ext. 208
Web: www.decc.org / Email: aeberhart@decc.org

Indicate that your shipment is for the MNAWWA Annual Meeting, September 20-23, 2016.

FLOOR PLAN
YOUR COMPANY INFORMATION
Company Name: ___________________________________________________________________________________
Contact Name: ____________________________________________________________________________________
Street Address: __________________________________________________________________________________
City: ____________________ State: ____________________ Zip: ____________________
Phone: ____________________ Fax: ____________________
Email: ____________________________________________________________________________________________

TRADE SHOW EXHIBITOR BOOTH REGISTRATION
Booths $345 (member), $500 (non-member) per booth.

Qty: _____  $: ____________________

Two Exhibitor Registrations are included per booth. Please list name(s) of Exhibitor Registrant(s):
1. __________________________________________   2. __________________________________________

Additional $60 per person
Qty: _____  $: ____________________
(covers admission to the Vendor Exhibitor Show, lunch, and evening social). Please list Registrations name(s) of any additional Exhibitor Registrant(s):
Name: ____________________________________   Name: ____________________
Name: ____________________________________   Name: ____________________
Name: ____________________________________   Name: ____________________

Electrical Service $55 for each 110V service.
Qty: _____  $: ____________________

Booth Location: List booth preferences here, if any. (See diagram on page 3 of Call for Exhibitors Brochure.)
1: ____________________   2: ____________________   3: ____________________

Booth Registration Total  $: ____________________

Note: This does not include registration costs for the full three-day conference. Conference details and a registration sheet will be distributed at a later date.

CONFERENCE SPONSOR REGISTRATION
Please check below to indicate that your organization wishes to be a Conference Sponsor. Sponsors have first priority in Trade Show booth assignments. Sponsors receive recognition throughout the Conference via such items as Conference signage, a prominent thank-you in the Conference Program, and recognition during the Member Appreciation Dinner. Sponsors are appreciated as being supporters of MNAWWA at the highest level.

☐ We wish to register as a Conference Sponsor. Cost: $750 (RECOGNITION ONLY, does not include booth)  $: ____________________

DONATIONS
To donate to the following, indicate your choices below. Donations help MNAWWA's charitable efforts. Donors will receive special recognition at the Annual Conference.

☐ WFP Golf Tournament Hole Sponsor (Suggested Donation: $200)  $: ____________________
☐ WFP Fishing Tournament Boat Sponsor (Suggested Donation: $200)  $: ____________________
☐ Hydrant Hysteria Sponsor (Suggested Donation: $100)  $: ____________________
☐ YP Team Trivia Contest (Suggested Donation: $100)  $: ____________________
☐ Pipe Tapping Contest (Suggested Donation: $100)  $: ____________________
☐ Water For People (Suggested Donation: $50)  $: ____________________
☐ David Morris Endowment (Suggested Donation: $50)  $: ____________________
☐ WFP Sporting Clays Sponsor (Limit 5) (Suggested Donation: $200)  $: ____________________
☐ Meter Madness Contest (Suggested Donation: $100)  $: ____________________

TOTAL DUE $:

Authorized Signature: ____________________   Date: ____________________

MAKE CHECKS PAYABLE TO MN SECTION AWWA.
- Registrations without payment will not be processed.
- By registering, you agree to abide by the rules listed on the “Exhibitor Registration Information” page in the Call for Exhibitors Brochure.
- Application and payment must be received by August 15, 2016.

*Exhibitors registering after August 15th may not be listed in the Conference Program.

SEND REGISTRATION FORM AND PAYMENT TO:
MNAWWA c/o Joe Zauner
AMERICAN
21695 Highview Avenue
Lakeville, MN  55044
(651) 295-8163
### Conference at a Glance

<table>
<thead>
<tr>
<th>TUESDAY 15TH</th>
<th>WEDNESDAY 16TH</th>
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<tbody>
<tr>
<td><strong>Track</strong></td>
<td><strong>Opening/General Session</strong></td>
</tr>
<tr>
<td>7:30 - 8:00</td>
<td>8:00 - 8:30</td>
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<tr>
<td><strong>Room</strong></td>
<td><strong>8:30</strong> - 8:30</td>
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<tr>
<td>8:00 - 8:30</td>
<td><strong>Opening and Welcome by Jim Sadler</strong></td>
</tr>
<tr>
<td>8:30 - 8:45</td>
<td><strong>Water For People Update</strong></td>
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<tr>
<td>8:45 - 9:00</td>
<td><strong>Smithsonian Exhibits</strong></td>
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<tr>
<td>9:00 - 9:15</td>
<td><strong>Opening Keynote</strong></td>
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<tr>
<td><strong>Moderator</strong></td>
<td><strong>The History of Water</strong></td>
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<tr>
<td>Greg Johnson</td>
<td>Dave LaFrance</td>
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</table>

**Legend**
- MNAWWA Meetings/Meals
- Conference Events/Sessions
- Social Events

### Schedule Details

<table>
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<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>7:30</td>
<td>Pre-Conference Board Meeting</td>
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<tr>
<td>8:00</td>
<td>Opening/General Session</td>
</tr>
<tr>
<td>8:30</td>
<td>Opening and Welcome by Jim Sadler</td>
</tr>
<tr>
<td>8:45</td>
<td>Water For People Update</td>
</tr>
<tr>
<td>9:00</td>
<td>Smithsonian Exhibits</td>
</tr>
<tr>
<td>9:00</td>
<td>Pre-Conference Board Meeting</td>
</tr>
<tr>
<td>10:00</td>
<td>Water For People Sporting Clays Shooting Old Vermillion Trail</td>
</tr>
<tr>
<td>10:30</td>
<td>Water Museum Main Registration Hallway</td>
</tr>
<tr>
<td>10:45</td>
<td>vendor Exhibitions</td>
</tr>
<tr>
<td>11:00</td>
<td>Past Chair Luncheon Bellisio’s Restaurant</td>
</tr>
<tr>
<td>11:30</td>
<td>pH: pHiguring out the pHundamentals Annika Bankston, City of Minneapolis</td>
</tr>
<tr>
<td>12:00</td>
<td>MAC Social - Part 1 Clyde Iron Works busses to shuttle guests from Canal Park to Clyde Iron Works (4:30 - 5:30), Buses from Clyde Iron Works to Canal Park (6:30 - 7:30)</td>
</tr>
<tr>
<td>12:00</td>
<td>MAC Social - Part 2 Brewery Circuit buses will bump and run from Clyde Iron Works to Bent Puddle Brewing Co., Canal Park Brewing Co., and Lake Superior Brewing Co.</td>
</tr>
</tbody>
</table>

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## Thursday, 17th

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<th>Time</th>
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<th>Speakers/Participants</th>
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</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Continental Breakfast</td>
<td><strong>Research</strong></td>
</tr>
<tr>
<td>8:00</td>
<td>Two-Stage, Fixed-Bed Biological Nitrate Removal at the City of Delano: Pilot Testing to Full-Scale Implementation</td>
<td>Greg Johnson, Carollo Engineers</td>
</tr>
<tr>
<td>8:00</td>
<td>A Large Diameter Water Main - Rehabilitation Story of Five Cities</td>
<td>Miles Jensen, Bolton &amp; Menk</td>
</tr>
<tr>
<td>8:45</td>
<td>Concurrent Biological Filtration of Iron, Ammonia and Manganese in a Single Vessel: Pilot Investigations for White Bear Township, Minnesota</td>
<td>John Berrigan, TKDA</td>
</tr>
<tr>
<td>8:45</td>
<td>Spirit Mountain Water Infrastructure Project</td>
<td>Jeffery Ledin, Short Elliott Hendrickson</td>
</tr>
<tr>
<td>8:45</td>
<td>Asset Management from Rural to Metro Perspectives</td>
<td>Carol Kaszynski, City of Bloomington</td>
</tr>
<tr>
<td>8:45</td>
<td>Asset Management and EAMS: Is Your Cart in Front of the Horse?</td>
<td>Clen Gerads, City of Minneapolis</td>
</tr>
<tr>
<td>9:00</td>
<td>History of the Water Research Foundation</td>
<td>Rob Renner, AWWA</td>
</tr>
<tr>
<td>9:45</td>
<td>Removal of Particles and Contaminants of Emerging Concern (CECs) in Biologically-Active GAC Filters for Minnesota Surface Waters</td>
<td>Ben Ma, University of Minnesota</td>
</tr>
<tr>
<td>9:45</td>
<td>City of Luverne Water Supply Improvements</td>
<td>Verna Jacobsen and Matt Ellingson, TKDA</td>
</tr>
<tr>
<td>9:45</td>
<td>Using Condition Assessment Data to More Efficiently Manage Your Pipelines</td>
<td>Allison Stroekele, Pure Technologies</td>
</tr>
<tr>
<td>10:00</td>
<td>Break</td>
<td><strong>IT</strong></td>
</tr>
<tr>
<td>10:30</td>
<td>Profile of Lead Release in Lead Service Line and Mains During Flushing</td>
<td>Anna Schiepe, Minnesota Department of Health</td>
</tr>
<tr>
<td>1:00</td>
<td>Residential Stormwater Reuse: Opportunities, Challenges, and the Way Forward</td>
<td>Erin Hydinger, WSB &amp; Associates and Bryan Bear, City of Hugo</td>
</tr>
<tr>
<td>1:00</td>
<td>EPA Tools and Resources for Drinking Water and Wastewater Utilities</td>
<td>Khin Cho Thaung, U.S. EPA</td>
</tr>
<tr>
<td>1:45</td>
<td>Antibiotics and Antibiotic Resistance in Minnesota Surface Waters</td>
<td>Kristine Wammer, University of St. Thomas</td>
</tr>
<tr>
<td>1:45</td>
<td>Metropolitan Council Annual Update</td>
<td>Dave Brown, Brian Davis and Lanya Ross, MCES</td>
</tr>
<tr>
<td>1:45</td>
<td>Know What's Below</td>
<td>Brent Massmann, City of Bloomington</td>
</tr>
<tr>
<td>2:00</td>
<td>Break</td>
<td><strong>IT</strong></td>
</tr>
<tr>
<td>2:45</td>
<td>Improving Heavy Metals Removals from Natural Waters Using Zeolite</td>
<td>Michael Simmons, University of Minnesota</td>
</tr>
<tr>
<td>2:45</td>
<td>It's All About Location: Distribution Water Quality Samples</td>
<td>George Krynick, City of Minneapolis</td>
</tr>
<tr>
<td>3:00</td>
<td>Easiest Catch: Don’t Be Another Fish In The Dark 'Net (Part 1)</td>
<td>Mark Lanterman, Computer Forensic Services</td>
</tr>
<tr>
<td>3:30</td>
<td>St. Cloud WTP AOP and Bio-Filtration Pilot Study</td>
<td>Qiqing Chang, AES and Shane Lund, St. Cloud Utilities</td>
</tr>
<tr>
<td>3:30</td>
<td>No Beer Without Water! A Minnesota Perspective on Beer Brewing and the Links to the Water Industry</td>
<td>Kristoffer Knutson, Moorhead Public Service and Todd Elliott, CH2M</td>
</tr>
<tr>
<td>5:00</td>
<td>Free Time</td>
<td><strong>IT</strong></td>
</tr>
<tr>
<td>6:00</td>
<td>AWWA Appreciation Night Meet and Greet with hors d’oeuvres</td>
<td>Location TBD</td>
</tr>
<tr>
<td>7:30</td>
<td>AWWA Appreciation Night Dinner Featuring Comedian David Harris</td>
<td><strong>IT</strong></td>
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<tr>
<td>8:30</td>
<td>AWWA Appreciation Night Awards Presentation</td>
<td><strong>IT</strong></td>
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<tr>
<td>9:30</td>
<td>MNAWWA Team Trivia Contest</td>
<td><strong>IT</strong></td>
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</tbody>
</table>

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<tr>
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<td>Continental Breakfast</td>
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</tr>
<tr>
<td>8:00</td>
<td>Future of the Water Industry</td>
<td>Dave LaFrance, AWWA</td>
</tr>
<tr>
<td>8:15</td>
<td>Over a Barrel (of Water) - The Backstory of Flint, MI Nightmare</td>
<td>Rick Wahlen, Eden Prairie</td>
</tr>
<tr>
<td>8:45</td>
<td>Addressing Iowa’s Water Quality Crisis through Agricultural Accountability</td>
<td>Bill Stowe, Des Moines Water</td>
</tr>
<tr>
<td>9:00</td>
<td>Using Condition Assessment Data to More Efficiently Manage Your Pipelines</td>
<td>Allison Stroekele, Pure Technologies</td>
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Click [HERE](#) to return to Table of Contents
This year, members will be asked to cast their vote for:

- Section Chair-Elect
- Section Director
- Bylaws Update

This year, the election will be conducted ELECTRONICALLY. The election will open on September 1, 2016 at 11:00 am central time, and will close at 11:00 am, central time, on Thursday September 22, 2016. All members will receive an email with instructions for voting as the election draws near.

CHAIR CANDIDATES

DAVID BROWN

“You should join AWWA.” That’s what Dave heard from his supervisor shortly after starting his first water industry job as a water systems engineer after graduating from Iowa State University in 1988. He became a member right away but it seemed like Illinois Section members only wanted to talk to the people they already knew. Which made it challenging for a young engineer who didn’t know anyone in the section (and only wanted to talk to people he knew). So reading the AWWA Journal was the extent of his involvement.

After moving to Minnesota in 1993 and starting work at Progressive Consulting Engineers, Dave was advised by Naeem Qureshi, “Get involved in Minnesota AWWA”. Dave says, “In Minnesota I found getting involved was easier than in Illinois. I gradually started meeting people and getting to know them by attending various schools and conferences and giving presentations at operator schools. But I still held back from any leadership roles.”

At the MNAAWWA fall conference in Owatonna in 2003 Dave shared with Jerry Mahon how intimidating it had been to meet people in Illinois and that it would be great if the MN Section had a committee or club where people new to the industry could easily meet. Dave recalls, “Jerry told me AWWA had just what I was talking about, Young Professionals (YP) Committees, and the association was trying to get more sections to create YP Committees. He said I should create the section’s YP committee and be the chair. I told Jerry that at 42 I was too old to be a Young Professional member, let alone the chair, but I’d like to be involved in the committee somehow. One month later I got an official letter from AWWA in Denver saying, “Congratulations on being selected as the new Young Professionals Committee Chair.” I felt I was a six year old kid again with my uncle picking me up and throwing me into the deep end of the pool to learn how to swim. But Jerry’s action was just the push I needed for me to learn how great it is to be actively involved in AWWA. That first position, as the Young Professionals Committee Chair, taught me how easy it is to find other members who are similar to you and that together you can create the MNAAWWA activities, events and committees that get and keep you involved and engaged in the Section.”

So after getting a new motorcycle in 2012, Dave found other motorcyclists in the Section and together they created the Water for People (WFP) Motorcycle Ride. Dave chaired this committee for the first three years.

Other positions he has held include Secretary/Treasurer, Award Committee Chair, and Website Update Committee Chair. He has also been an active member of the IT and Program committees. Dave has also helped at the registration desk at the annual conference in Duluth for several years.
Throughout his career Grant Meyer has had fortunate opportunities to be involved with AWWA in wide variety positions. But, it was his introduction to AWWA 18 years ago that shaped much of his approach to the organization. Before he was even involved in his local District or Section, he was presented with an opportunity to serve on the Association (National) Level Young Professional Committee. He was one of only six YPs on the Committee and was the only YP Liaison to a number of other Committees on the nation level. This early experience taught Grant the difference between “passively” being a member of an organization, and taking an “active” engaged role in really being a part of that organization.

Grant appreciated the opportunity, and the responsibly, to be very “actively” involved early in his career and has found it even more rewarding to volunteer on the local and Section level. He greatly appreciates the opportunities to work with a talented team of professionals throughout MN! In the MN Section, he has worked with both the Central and Metro Districts, and served on the Membership Committee, as Administrative and Policy Council Chair for the Section Board, and is currently an active member of both the Water Utility Council and the Section Finance Committee.

Grant holds his Bachelor of Science in Civil Engineering and Master of Engineering in Civil Engineering (with Environmental Emphasis) both from the University of North Dakota in Grand Forks. He even went back to school part-time and took a few business classes, but quickly returned his energy to the water industry.

Grant has been employed with AE2S, a regional consulting engineering firm specializing in water related engineering, since 1997. As an intern, Grant did everything from survey rural water pipelines to inspect sanitary sewer manholes (unfortunately not always new construction). Over the past 19 years Grant has directly managed all aspects of engineering projects – from conceptual alternative evaluation and preliminary design through design, construction, and implementation of major water system infrastructure projects, helping clients address near-term objectives and plan for their long-term vision. Currently, Grant serves as the firm’s Business Development Director and Client Program Leader and holds a position on the Board of Directors. Throughout his career AE2S, Grant has experience with a wide variety of management and leadership positions, all focused on helping team members and clients achieve their own success.

Grant and his wife Marsha live in Plymouth with their two boys Marek (11) and Balen (1). The boys seem to also have their sights set on careers in the water industry, as Marek currently wants to be a “Water Engineer just like dad” and Balen really enjoys splashing in any toilet bowl that is accidently left open.

For Dave it is an honor and privilege to be considered for the position of Section Chair.
Bert began his career in Public Works 37 years ago working for the City of Minnetonka as a utility maintenance operator. Since that time he has worked his way through management first as a Utility Foreman, Utility Superintendent, and Public Works Superintendent for the City of Oakdale for six years; and for the past eight years as the Public Works Maintenance Manager for the City of Golden Valley.

Bert attended St. Cloud Technical and Community College, where he received his certificate in Water and Wastewater Treatment and Technology. He has also completed the Public Works Leadership Academy, Public Works Certificate Program, and Midwest Regional Water Utility Management Institute. Bert holds a Class S-B Collection System Operators License from the MPCA and a Class A Water Supply System Operator License from MDH.

Bert has been active in associations throughout his career and held board and committee positions in the following professional organizations:

- Chair, MN Section American Water Works Association (AWWA) and a 25 year member
- President, Suburban Utilities Superintendents Association (SUSA)
- President, Minnesota Street Superintendents Association (MSSA)
- Currently on the Executive Committee, American Public Works Association-MN Chapter, involved with the Underground Utility Construction Inspectors School Committee for over 10 years, and Executive Committee Liaison to the Education & Training Committee
- MNAWWA Co-chair of the Metro District Education Committee for 18 years, Co-chair of the Awards Committee, member of the Membership Committee and liaison to the APWA-MN Chapter MN2050 Committee.
- A member of the University of Minnesota Extension Services Local Technical Assistance Program (LTAP) Steering Committee and Education Leaders Committee

It would be an honor to serve as the MNAWWA Section Director. Thank you for the opportunity.
FORMAL NOTICE FOR MINNESOTA SECTION AWWA MEMBERS – PROPOSED BYLAWS CHANGE

The Minnesota Section of the AWWA Governing Board recommends the MNAWWA Section Bylaws be amended. The changes include required updates by the Association, reduction of redundant language, and Section operational changes over the past seven years.

Board members approved of the recommendation unanimously at the April 30, 2016 meeting (MNAWWA Section Bylaw 11.1).

This serves as formal notice per MNAWWA Bylaw 11.2: “All Section members shall have at least thirty (30) days in which to consider the proposed amendment(s) prior to a vote being taken … at the annual business meeting.”

The requested amendments are posted on the Section Website.

Please be prepared to vote ELECTRONICALLY on this item in September 2016. The results will be communicated at the Annual Business meeting.
The Minnesota Associates Council (MAC) of the MNAWWA invites you to participate in our 27th Annual Golf Tournament. This year's golf tournament will be held once again at the Lester Park Golf Course.

The tournament format will be a four-person scramble. You pick the team you wish to play with, or we can assign you to a team. Individual prizes will be awarded for contest holes and team prizes will be awarded to first and second-place prizes in both A flight and B flight. All prizes will be distributed at the clubhouse after the event.

**DATE:** September 20, 2016  
**COURSE:** Lester Park Golf Club  
**TIMES:** Lunch at 12:00 pm; Shotgun Start at 12:30 pm  
**COST:** $75.00/person (includes: green fees, cart, lunch)

**RESERVATION DEADLINE:** SEPTEMBER 16, 2016 | NO REFUNDS CAN BE MADE

Please complete and return as soon as possible to assure your reservation. Any questions or to volunteer, contact Joe Zauner.

---

**GOLF REGISTRATION**

**DUE SEPTEMBER 13, 2016**

Name: __________________________ Representing: __________________________
Street Address: __________________________
City: __________________________ State: __________________________ Zip: __________________________
Phone: __________________________ Fax: __________________________

**TEAM SELECTION:**

☐ I have a team of four.

The full names of the people on my team are:

Name: __________________________ Company/City: __________________________
Name: __________________________ Company/City: __________________________
Name: __________________________ Company/City: __________________________
Name: __________________________ Company/City: __________________________
Name: __________________________ Company/City: __________________________

☐ I would like to be assigned to a foursome

**PAYMENT:**

$75.00/Golfer X ____________ golfer(s) = $ __________________________

Amount Enclosed $ __________________________

You can register for this event online, along with your Conference registration.

Please mail your reservation form and check payable to MNAWWA to:

Joe Zauner  
AMERICAN  
21695 Highview Avenue,  
Lakeville, MN 55044

---

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You can register for this event online, along with your Conference registration.

Please mail your reservation form and check payable to MNAWWA to:

Joe Zauner  
AMERICAN  
21695 Highview Avenue,  
Lakeville, MN 55044
If you have a watermain break, we’ll be there to locate where the pipe is leaking. Water makes a distinct sound when it’s leaking, and we can correlate the location of the leak through technology and 19 years of experience. We’ll mark the surface where you should dig—no chasing, and no dry holes. WCS will save you time, water and most importantly money!

Other Services:
- Water Loss Surveys
- Call for a proposal for 2017
- Helium Leak Detection for plastic pipe and small leaks
- Pool Leak Detection
- GPS Data Collection

Call Tony Schrantz 612-600-8716/24 hrs.
watermainleaklocator.com  tony.schrantz@gmail.com

New water for a thirsty world

AECOM congratulates the Minnesota Section of the American Water Works Association on its 100th anniversary.

www.aecom.com
KLM congratulates AWWA Minnesota Section for 100 years of providing effective solutions to managing water, the world’s most important resource.

We would like to thank them for their continued work expanding on the core principles of protecting public health, safeguarding the environment, sharing best practices, inspiring innovation, fostering diversity and inclusion.

From the KLM Team

Happy 100th Anniversary Minnesota AWWA

Proud to be a part of the world’s largest association of water professionals since 1949

www.bolton-menk.com
The Minnesota Associates Council (MAC) of the American Water Works Association invites you to participate in the Annual Fishing Tournament. We have reserved nine of the top charter boats out of the Duluth Harbor. Remember to bring an ice chest!

**DATE:** Tuesday, September 20, 2016  
**PLACE:** Waterfront Plaza Marina - Canal Park, Downtown Duluth or Lakehead Boat Basin - 1000 Minnesota Ave., Duluth  
**TIME:** Arrive at the Marina at 11:00 pm – Boats will depart at 11:30 pm, return at 5:00 pm  
**COST:** $120.00/person ($50.00/student)  
(refunds can be made if charter is cancelled due to bad weather)  
**Includes:** All necessary fishing equipment, all required U.S. Coast Guard Safety equipment and fish filleting and bagging.  
**Note:** a tip for the First Mate is not included. This is generally 10% - 15% of an individual’s portion of the charter boat fee.

**WHAT TO BRING:** Warm clothing and soft soled shoes, rain gear, snacks and beverages, sunglasses, camera or video camera, cooler and ice for your fish, a current Minnesota fishing license with a trout stamp.

**DEADLINE:** August 15, 2016

The nine boats and captains are:

- Treble Hook – Dave Dahl
- Happy Hooker – Jon Dahl
- Hooker Too – Peter Dahl
- Blue Haven – Gerry Downes
- Hooker IV – Marty Running
- Cetee II – Carl Brandt
- Captain’s Choice – Tom Cheetham
- Blue Haven – Gerry Downes
- Captain’s Choice – Tom Cheetham

- Additional boats will be reserved if available and as required.  
  Each boat can take up to six customers. It’s first come first serve, so get your reservation in early.  
- All tournament questions should be directed to Doug Klamerus at (651) 704-9970.  
- Please fill out the reservation form below and send it with your check payable to MNAWWA to: Douglas Klamerus – Rochester Public Utilities, 4000 East River Road NE, Rochester, MN 55906. Respond as soon as possible to ensure your reservation!

---

**Name:**  
**Representing:**  
**Address:**  
**City:**  
**State:**  
**Zip:**  
**Email:**  
**Phone:**

**BOAT/PARTNER SELECTION:**

- [ ] I would like to be assigned to a boat.  
- [ ] I would like to fish with the following persons: __________________________

Boat sponsorship to be paid with main registration **(Note: Only boat sponsors will be guaranteed to fish with a preferred list)**

Boat sponsors: My Company would like to sponsor the following boat (suggested donation – $200/boat): __________________________ and the full names of the people on my boat are:

- [ ] Name: __________________________ City: __________________________ Email: __________________________
- [ ] Name: __________________________ City: __________________________ Email: __________________________
- [ ] Name: __________________________ City: __________________________ Email: __________________________
- [ ] Name: __________________________ City: __________________________ Email: __________________________
- [ ] Name: __________________________ City: __________________________ Email: __________________________
- [ ] Name: __________________________ City: __________________________ Email: __________________________
- [ ] Name: __________________________ City: __________________________ Email: __________________________

**PAYMENT:**

- $110 per Fisherman X ______ Fishermen = $ ________  
- $50 per Student X ________ Students = $ ________

Total Amount Enclosed $ ____________

**Optional Dinner.** Yes, I will attend the informal dinner after fishing. Door prizes will be distributed during dinner. The restaurant will cook your catch or you can order off the regular menu. Cost of dinner not included in payment.

You can register for this event online, along with your Conference registration.
Proudly supporting the work of Minnesota AWWA,
as they provide solutions to effectively manage
water, the world's most important resource.

*Congratulations on 100 years of dedication.*
The Minnesota Associates Council (MAC) of the American Water Works Association invites you to participate in the 7th Annual Sporting Clays Event.

**DATE:** Tuesday, September 20, 2016

**LOCATION:** Old Vermilion Trail - Check website at [www.oldvermiliontrail.com](http://www.oldvermiliontrail.com)

**TIME:** Arrive at the club at 9:30 am for morning shoot, lunch and additional afternoon shoot

**COST:** $75.00/person for two rounds of 50 (will need four boxes of shells).

All questions should be directed to Aaron Vollmer at (763) 463-5036 or aaron.vollmer@ae2s.com

Please fill out the reservation form below and send it with your check payable to MNAWWA to:

Aaron Vollmer

AE2S

6901 E. Fish Lake Rd., Ste 184, Maple Grove, MN 55369

**Respond as soon as possible to ensure your reservation!**

---

**EVENT REGISTRATION**

Name: ___________________________ Representing: ___________________________

Street Address: ___________________________

City: ___________________________ State: ___________________________ Zip: ___________________________

Phone: ___________________________ Fax: ___________________________

Name: ___________________________ Company/City: ___________________________

Name: ___________________________ Company/City: ___________________________

Name: ___________________________ Company/City: ___________________________

Name: ___________________________ Company/City: ___________________________

Name: ___________________________ Company/City: ___________________________

Payment:

Total Amount Enclosed $________________________

You can register for this event online, along with your Conference registration.
The 100th Annual Conference of the Minnesota Section American Water Works Association will be held in Duluth, MN September 20-23, 2016. For the first year the Young Professionals Committee will host a Trivia Contest to raise funds for the David B. Morris Endowment Fund. We are asking businesses to support the contest with prize donations and/or table sponsorship.

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 of 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. Recognizing the significance of the scholarships provided by the endowment fund, we encourage you to participate and consider table sponsorship and/or prize donations.

Please join us as sponsors for the Trivia Contest with a donation of $100 as an event sponsor and/or donate a prize. We will prominently display company sponsors at the registration table and announce sponsors throughout the event. Send your $100 check and/or indicate your prize donations on the enclosed form and return by August 15.

Thank you in advance for your consideration, and we look forward to seeing you at the conference.

Sincerely,

Jim Hauth
City of Eagan
3419 Coachman Pt.
Eagan, MN 55122
(651) 675-5216 - Office
(651) 675-5211 - Fax
jhauth@cityofeagan.com

☐ Yes, I wish to support this year’s Trivia Contest to benefit the David B. Morris Endowment Fund.

☐ I have enclosed my check for $100 for a contest sponsor.

☐ I will bring my prize(s) to donate to the event. Please fax or email this form.

Contact Name: ________________________________

Company Name (to appear on acknowledgements): ________________________________

Street Address: ________________________________

City: ________________________________ State: ________________________________ Zip: ________________________________

Phone: ________________________________ Fax: ________________________________

Email: ________________________________

Please make checks payable to: MN Section AWWA
Mail your check with this form to:

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City of Eagan
3419 Coachman Pt.
Eagan, MN 55122
(651) 675-5216 - Office
(651) 675-5211 - Fax
jhauth@cityofeagan.com

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Congratulations Minnesota AWWA section on 100 years.

Click HERE to return to Table of Contents
## CONFERENCE REGISTRATION FORM

### Your Company Information

<table>
<thead>
<tr>
<th>First Name:</th>
<th>Last Name:</th>
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### Cost of Registration

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<th>Before 8/26/2016</th>
<th>After 8/26/2016</th>
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<tbody>
<tr>
<td><strong>Full Registration</strong></td>
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<tr>
<td>Includes all conference technical sessions, Wednesday/Thursday/Friday luncheons, Wednesday evening social, and Thursday evening AWWA Appreciation Night.</td>
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<tr>
<td>Non-Member</td>
<td>$325*</td>
<td>$360*</td>
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<tr>
<td>AWWA Member</td>
<td>$245</td>
<td>$280</td>
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<tr>
<td>Retiree</td>
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<td><strong>One-Day Registration</strong></td>
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<tr>
<td>Includes admittance to all conference technical sessions for that day and one luncheon ticket.</td>
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<tr>
<td>Wednesday</td>
<td>$140</td>
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<td>Thursday</td>
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<td>Friday</td>
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<tr>
<td><strong>Student Registration</strong></td>
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<tr>
<td>Must be enrolled in an educational institution at least half time. Includes technical sessions and lunch for registered date(s).</td>
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<td>Friday</td>
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*Non-member full registration includes a free one-year operator-level AWWA membership (or the option to add a one-year individual AWWA membership for just $99). Contact MNAWWA if you have questions about membership.

### Additional Tickets

<table>
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<tr>
<th><strong>Guest Program</strong></th>
<th>Include some conference activities, lunch entrant to vendor exhibition, continental breakfasts, Wednesday evening social, and Thursday evening AWWA Appreciation Night. Please note price changes on 8/26/2015</th>
<th>$80 per guest (before 8/26) X _________ # = $__________  $85 per guest (after 8/26) X _________ # = $__________</th>
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<tbody>
<tr>
<td>Guest Names:</td>
<td></td>
<td>$55 per ticket X _________ (#) Tickets: $__________</td>
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Make checks payable to MNAWWA and mail to:

MNAWWA
c/o Dennis Rosemark
City of St. Paul Water Utilities
1900 Rice Street
St. Paul, MN 55113
Email: dennis.rosemark@cistpaul.mn.us

### Cancellation Policy:

Written cancellation is required. Registration cancellations received by August 26: Registrant receives the registration fee back, minus a $10 processing fee. Registration cancellations received after August 26 but by September 2: registrant receives 50% of the fee in a refund. Registration cancellations received after September 2 but by September 9: registrant receives 25% of the fee in a refund.

You can register for this event online, along with your Conference registration.

Registration total: $__________

Additional banquet tickets total: $__________

TOTAL ENCLOSED: $__________
Applications:
Water and Wastewater Treatment Facilities, Pump Stations, Sewer Bypass, Scum Concentrator, Primary Clarification, FOG Stations, Flotation Systems, Feed of Thickening and Dewatering Devices, Digester Recirculation, Sludge Transfer / Load Out, Membrane Bioreactor, Polymer Systems, etc.

Media:
Sludge (Primary, WAS, RAS, Digested, Thickened, etc.), Biosolids, Grease, Sewage, Scum, Lime Slurry, Alum Sludge, Permeate, Polymers, etc.

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Each year at the AWWA Annual Conference and Exposition (ACE), individuals sporting denim vests covered with sponsorship patches can be seen in the exhibit hall and conference sessions. They are known as “Water Buffalos,” and they travel to ACE on their motorcycles.

My first encounter with a Water Buffalo was at ACE in Dallas, in 2012. I found it very intriguing that a group of individuals would ride their motorcycles across the country to raise money for Ride with Purpose/Water For People. Four years later, I joined the herd and headed for ACE in Chicago.

As those of you know, motorcycle riders do not always take the shortest route to a destination. My husband, DuWayne, and I met up with the herd in Hampton, as they traveled through Minnesota. The buffalos were from Virginia Beach, VA, Pittsburgh, PA and Valparaiso, IN. Two herds traveling separately met in Duluth the previous evening; one traveled from Virginia, north through Pennsylvania and New York into Canada along the northern shore of the Great Lakes; the other, from Indiana, went north into Michigan, through the Upper Peninsula, and along the south shore of Lake Superior. From Hampton we traveled to Marshalltown, IA, to meet more of the herd for introductions, food, refreshments, and sleep.

The size of the herd grew from 1, 2, 4, then 6 and now 10, as we headed toward Milwaukee, WI. On Saturday evening, the herd gathered for their annual get-together and initiation ceremony for the new buffalos. I met buffalos from Ontario, Georgia, Indiana, Kansas, Arizona, South Dakota, New Jersey, Texas, North Dakota, South Carolina, and Kansas.

I joined 11 other buffalo calves as we were initiated into the rank of Water Buffalos. There are 95 buffalos; I’m number 92. The initiation included a swearing-in ceremony where we pledged to assist fellow buffalos, motorcyclists, and help raise awareness/money for Ride with Purpose; smoke a cigar (or light one in my case); and take a drink of holy water (moonshine from the hills of northern Georgia). With the ceremony completed, we received our vests.

Early Sunday morning, the herd all gathered at the Milwaukee Sheraton for a safety briefing and to discuss the 90-mile ride into the Windy City. The herd was on the road by 7:30 am. There were 32 motorcycles and 37 Buffalos bound for the AWWA Conference Headquarters at the Chicago Hilton. Upon arrival at the Hilton, the herd joined the AWWA Board of Directors at their annual meeting to provide a summary of funds raised and distances traveled to the conference, along with presenting certificates to supporting sections.

Each herd leaves ACE on its own. The Minnesota Chapter (DuWayne and I) left Chicago very early Thursday morning to avoid as much traffic as possible. We rode over 1,200 miles on our first Water Buffalo charity ride.

In 2016, the Water Buffalos have raised over $126,000, bringing the cumulative total to over $950,000. The goal is to exceed $1 Million for Ride with Purpose this year. The Ride with Purpose charity raises funds by selling sponsorship patches on the Water Buffalo vests. Each buffalo is asked to raise $1,000 annually, in addition to other fundraising activities, such as a Victory motorcycle raffle and Poker Run at ACE and Water Environment Federation.

History

The Water Buffalos began in Arizona in 2005. One of the founders wanted a catchy water-related name for a charity-ride group, and he chose Water Buffalos because the animals are strong and travel in herds. At the same time in Washington State, two bikers had a similar idea, and they launched Ride with Purpose. Ultimately, the groups found out about each other and merged into a 501(c)(3) organization.

Thank you to all the individuals, Minnesota Section AWWA and MAC members, who support Water For People and contributed to my Ride with Purpose fundraising. Horns Up!!
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Prevention vs Reaction
Why Adopting a Cross-Connection Control Program is Critical

By Gary McLaren, ASSE Certified Cross Connection Surveyor, HydroCorp

Imagine this scenario:
the potable water supply piping within a child daycare facility was connected to a chemically treated boiler system's automatic water refill system. The non-testable type backflow preventer was removed due to leaking a few years ago. Next, there is sudden loss of main supply pressure due to an 8-inch water main being struck during nearby road construction. The sudden loss of pressure and water volume is brief but immense. Water flow is reversed as it escapes to the large break in the main. The drinking water inside the daycare is instantly contaminated with toxic boiler water. The situation gets worse when water is consumed before authorities could alert the neighborhood.

Alarming situation indeed. Yet this potential combination of incorrect or missing backflow preventers and supply system pressure loss exists in nearly all communities at one time or another. This equation is simple, but the solution is a complex problem for a public water supply to address. Fortunately in Minnesota, there are long-standing administrative rules and regulatory departments that help address backflow prevention and the challenges presented by cross-connection hazards within our drinking water supplies.

In late January of 2016, Minnesota adopted the Uniform Plumbing Code. The new code includes more specific language for backflow prevention and also has additional requirements related to testable-type backflow preventers. The technical description of this sort of plumbing valve is referred to in plumbing code as a backflow prevention assembly. The new code now requires all testable assembly backflow preventer annual test reports shall be sent to the relative water supply system. No longer is it just

the “RPZ” type backflow preventer which annual test reports should be tracked, but also backflow preventers on irrigation systems, fire sprinkler systems and other locations. This means an increase of annual test records submitted by certified testers and retained by each local water system administration, on an annual basis.

But will more and more test records being sent to a water supply system really protect drinking water systems from backflow contamination? No. But it is a key step in the right direction. Ensuring that all testable-type backflow preventers are being tested annually will help reduce malfunctions and avoid contamination disasters, but it doesn’t solve the problem scenario like the daycare center. Cross connections and unprotected connections to the drinking water supply in a building that have never identified is a much broader problem that must be addressed.

The common problem of unidentified cross connections and incorrect backflow preventers at high hazard connections pose a significant question to every public water system. Is our water supply system free of unknown and hidden cross connections? Because nearly all cross-connection hazards are downstream of a service supply and water meter, water supply system officials typically do not have detailed records of what is connected to the drinking water supply within a building. Thus, the default answer should always be “No, our system is not free from cross connection hazards.”

Adopting and implementing an effective cross-connection control program doesn’t happen overnight, but it is achievable. A water system does not need to reinvent the wheel either. Over the last several years the Minnesota Department of Health has provided detailed guidance articles and clarifications for cross-connection control practices.

Recently, communities such as Eagan have begun to implement comprehensive cross-connection control programs. These programs will include postal notifications to water customers, onsite surveying for cross connections, and correction by water customers of once-hidden and unknown cross-connection hazards.

An effective Cross-Connection Control Program should include at minimum:
• A local municipal ordinance prohibiting cross connections to the public water supply.
• Local authority to discontinue water supply if cross connections are not corrected.
• Onsite surveying/inspection of suspected (high hazard) facilities with potential cross connections.
• A written policy and procedures plan for the cross-connection control program.
• Public education/awareness of cross-connection hazards and backflow prevention.

With a well planned comprehensive approach, a public water system can effectively address hidden cross-connection hazards, maintain records of existing backflow preventers, and avoid dealing with a mountain-sized problem sometime down the road or, worse, water contamination.

“Adopting and implementing an effective cross-connection control program doesn’t happen overnight, but it is achievable.”
Our concern for the environment

is more than just talk

As we continue to deliver valuable information through the pages of this magazine, in a printed format that is appealing, reader-friendly and not lost in the proliferation of electronic messages that are bombarding our senses, we are also well aware of the need to be respectful of our environment. That is why we are committed to publishing the magazine in the most environmentally-friendly process possible. Here is what we mean:

- We use lighter publication stock that consists of recycled paper. This paper has been certified to meet the environmental and social standards of the Forest Stewardship Council® (FSC®) and comes from responsibly managed forests and well-managed sources meeting the criteria for environmentally responsible forestry.
- Our computer-to-plate technology reduces the amount of chemistry required to create plates for the printing process. The resulting chemistry is neutralized to the extent that it can be safely discharged to the drain.
- We use vegetable-based inks to print the magazine. This means that we are not using non-vegetable-based petroleum-based ink products and that the subsequent recycling of this paper in the magazine is much more environmentally-friendly.
- During the printing process, we use a solvent recycling system that separates the water from the recovered solvents and leaves only about 5% residue. This results in reduced solvent usage, handling and hazardous waste disposal.
- We ensure that the efficient recycling program is used for all printing papers and all waste paper.
- Within the pages of each issue, we actively encourage our readers to REUSE and RECYCLE.
- In order to reduce our carbon footprint on the planet, we utilize a carbon offset program in conjunction with any air travel we undertake related to our publishing responsibilities for this magazine.

So enjoy this magazine...and KEEP THINKING GREEN.

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A sk city engineers to list the primary goals they have for their city’s public water supply system and the overwhelming answer you will hear is, “safe and reliable.” Pushed for a third goal they would likely add, “and under local control.”

For the most part, Minnesota’s water management system wisely provides local governments (and their utilities) sufficient authorities to shape their water destiny – that is, until they demonstrate they cannot or will not manage water issues for the long haul. The shared nature of water management Minnesota has nurtured over the decades means that if one organization begins squandering water from a shared but shrinking resource, the others relying on that source of water have multiple paths to rein in the bad actor. The trick is to find the will to improve the shared management before irreparable damage is done.

A growing number of communities continue to over-pump drinking water from declining aquifers, while dreaming of further population increases and economic expansion. The realities and the dreams don’t match; available supplies won’t support future demands unless the community actively manages the situation.

Effective management requires sufficient funding. Most citizens within sizeable systems pay relatively little for drinking water services. If a water supplier were to charge for full system costs – pumping, treatment, storage, and distribution plus routine equipment replacement, meter upgrades, residential efficiency incentives, industry efficiency incentives, and systematic leak assessment programs – most of us would still be paying less than our cable bill. We can live without cable.

Public water suppliers have the latitude to choose what level of service to provide their customers and how much of that cost to include in their rate. As tempting as it is for elected officials, trying to compare rates with neighboring suppliers is tempting but ultimately not very useful unless it is known what costs the neighboring communities are including or deferring. A formal rate study that addresses full system costs, and anticipates increased water efficiencies, will minimize surprises from special assessments, system failure liabilities, or intervention from higher levels of government.

“Despite Minnesota’s reputation as water-rich, aquifer levels are declining in parts of the state.”

Groundwater levels near Lake Minnetonka communities show a six-decade decline. Long-term continual decline is not sustainable.
These are a few of the important messages in *The Water Underground, Reframing the Local Groundwater Picture*, a report released from the Freshwater Society this Spring.

The report points out that, despite Minnesota’s reputation as water-rich, aquifer levels are declining in parts of the state. In other areas of the state, there are not enough data to know the aquifers’ trends. So, rather than considering a statewide groundwater picture which masks the intensely localized variations, Freshwater divides the state into one of three scenarios: areas with steady, declining, or deficient supply.

The urgency or vigor a community needs to bring to halting declines varies considering their particular groundwater condition. If levels are declining steeply, it makes sense to be more aggressive in halting the decline before the shared and shrinking resource begins to negatively impact the local economy or raise the specter of the Department of Natural Resources modifying the municipal water appropriation permit. In areas with stable or increasing supplies, leak assessments and metering upgrades can be pursued on more of an opportunistic basis.

The three scenarios provide a simple way to communicate the invisible and complex nature of the city water supply trend. It is human nature to hear half of the metropolitan area is showing decades-long declines – then assume it must be the other cities . . . A council that understands their scenario is a council that will be more willing to plan for a sustainable water future, and maintain local control of water planning and supplies.

The report includes a number of case studies looking at how suppliers have offered incentives or knocked back lost (non-revenue) water. If there is a consistent theme, it is that water suppliers have the tools, knowledge, and peers who have already knocked back system losses, reduced waste by customers, and kept their systems safe, reliable, and under local control.

“A council that understands their scenario is a council that will be more willing to plan for a sustainable water future, and maintain local control of water planning and supplies.”

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Giving presentations to the public and a decision-making board such as a council or commission is often the one time you get to make a case, present an idea, or justify a needed expenditure. All too often, there are two things that are overlooked: Knowing the audience and simple preparation.

After making my own list of things that were most important about a presentation, I then went to the all-knowing chalice of info: the internet. Surprisingly, the topics of audience and preparation came up frequently.

**A TALE OF TWO MEETINGS**

Scenario 1. You are seeking a rate increase. You announce it six months ahead of time and send the council your new master plan along with a letter. You make sure to call the local elected officials before the announcement is in the local paper. You schedule a meeting to discuss the details for the master plan and the long-term financial plan. Once the details have been discussed, you schedule a formal hearing before the council and the increase passes by a large majority. Why? Because you knew your audience, and you were prepared with facts and information needed to make your case.

Scenario 2. We all have either seen it or been there: the meeting that turns against you, the one question that is asked and there is no answer, the one council member that will never support your cause, or the confrontation. If you are watching, you want to jump out of your seat and help the poor presenter, but you know it is not possible. So you watch the wrestling match and you hope the energy is expended because guess what... you are the next one up.

**KNOWING YOUR AUDIENCE**

This all too often can be avoided by knowing your audience and doing some research ahead of time. In the first scenario, communication and preparation obviously got a lot of the tough questions answered in advance without the pressure of some imposed deadline. Look at elected officials’ time in office, usual occupation, education and voting habits. This gives you some indication about that person’s life experience and perhaps their area of expertise. This may help you anticipate questions that may be asked or opposing points of view that may be held.
SOME KNOW-YOUR-AUDIENCE KNOW HOW

• State the purpose upfront, start with and end with the “ask”
• Know the technical proficiency of the group
  • Public meetings will likely need to have more general information
  • Commission or Board Meetings may need to be more technical
  • Council meetings may focus more on justification for spending tax dollars or raising rates
• Legislative Committees are even more complex!
• Know the background of the group as much as possible
• Know how much time you may have based on the group
• Know who may be in favor of, neutral, or against
• Present the facts or decision that must be made
• Be prepared for the hard “why” questions
• Remember: boards, councils, commissions, or the public, are not your peers!

PREPARATION

Preparation is not putting together a deck of Power Point slides. Preparation is knowing the background and facts that comprise your bullet points. Try not to crowd your charts, but speak to your audience and send your message. Rehearse in front of a small group of co-workers who are not very familiar with your project and get their feedback. If they understand the subject, then it is likely your audience will too. This is a very simple technique, but is often overlooked in favor of those who are “knowledgeable” about your subject. Leave the “experts” out for an honest assessment from people who have very little information about your presentation.

PREPARATION POINTERS

• Get a group that knows little about the subject and present to them
• Send complex supporting documents in advance
• Keep presentation to a maximum of 10-15 slides and know your time limit
• Think about a detailed briefing then a shorter version for an Official Public Meeting
• Leave time for questions and be prepared to answer them. Also, be prepared for opposition
• Make sure you are on the agenda and the subject presented is correct
• Be on time, call if you are delayed by an act of God

EXECUTION

Rehearse once without your experts, however, bring your experts or applicable staff with you. For example: I would never go to a finance presentation without our CFO. If you are not the best presenter, do not be afraid to do an opening introduction then hand things over to some other staff, then be the closer. It gives your staff a chance to shine and hone their skills as well. As I say, even the Lone Ranger had Tonto, so don’t be afraid to bring some back-up or let someone else be the star. The goal is to make your organization look good, informed, and sharp so your audience is receptive to your message.

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A good presentation to the public or a board is truly a team effort. Make sure to use those very good resources right under your own roof. It will also give others the sense they know what is going on and are a part of the process. You can make a difference with the outcome of your presentation with a little bit of extra work and a little PR thrown in.

The biggest rule of all: Do not lie, do not make up an answer, do not try to avoid the truth. Often the audience can see right through it. The person asking the questions will be persistent and like sharks smelling blood, they start coming after you. I have seen a few people, so eager to please and look smart, give answers when I already knew that the inquisitor had the answer. That poor individual lost their credibility. Their integrity was questioned. Above all, know thyself. Your audience will know you, too. It is ok to say “I don’t know, but I will get an answer for you.” Then make sure you follow up. You can also lose credibility by not following up as promised.

**WHATEVER YOU DO, DO NOT . . .**
- Read the slides
- Say “Um”, “ah,” “and that’s,” or “you know . . .”
- Provide unessential or confusing info
- Mumble or be the “Water Whisperer”
- Look at the floor or one person
- Present facts that are not supported in some manner

- Give an answer that you are unsure of – big credibility loss
- Be afraid to put your best presenter forward, and support them
- Fidget

Lastly, I have my own rules that are not that exotic, but I remind people they are important. How you carry yourself, the aura you project, and the manner in which you act is important. You need to be aware of your bad habits that you may do unconsciously. Get someone to give you an honest review of your presenting habits or video tape a rehearsal and see for yourself. It is a good exercise. These are a few tips that I have personally worked on and now see as very useful.

**HEATH’S HEEDFUL ADVICE**
- Project confidence, not arrogance (practice this at least once)
- Remember: You usually present to those outside your trade
- It’s ok not to know, but you must follow up with requested info
- You are there to convince, not combat
- Even the Lone Ranger had Tonto
- Someone in opposition may be your ally later – don’t make it personal
- Never talk down to your audience
- Empathize with another point of view, it shows you listened
- Treat even the most adversarial audience member with respect
- Thank the audience for their time and follow up!

**AUTHOR BIOGRAPHY**
Heath Ward has been Executive Director of Springdale (AR) Water Utilities since 2013. Previously, he spent 18 years in the poultry industry in operations, wastewater and engineering. He served four years as an Army tank officer in Germany, Kuwait, and Macedonia.

Heath is currently AWWMA’s Legislative Committee Chair, AWEA’s Government Affairs Chair, and serves on many local boards including the Rotary Club. He was appointed by AR Governor Hutchinson to the new Nutrient Trading Advisory Panel via Act 335 of 2015 and serves as Chair. He is a life member of the Veterans of Foreign Wars.

Heath holds his Grade IV Distribution, Advance Industrial and Class II Wastewater, and holds a BA from the University of Arkansas, Fayetteville (1991).
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Kinetrol manufactures the most comprehensive range of high performance pneumatic double acting and spring return rotary vane actuators in the world. In addition, Kinetrol also manufactures a full range of positioners, limit switch boxes, fail-safe and fire fail-safe spring units, I to P transducers, spring to center 90- and 180-degree actuators, gearboxes and other engineered products, from foundry to finished goods, in their ISO 9001-2008-certified factories. Every actuator is pressure tested. Kinetrol is the inventor of the quarter turn pneumatic vane actuator and manufactures 16 sizes with torque outputs ranging from 8 pound inches to 168,000 pound inches when supplied with 100 psig.

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Remembering Larry Cole, Formerly of Minneapolis Water Works

Larry Cole, who worked for Minneapolis Water Works for nearly 40 years, died May 17; he was 73. Larry began as a chemist with the utility in 1966, and in 1976 became supervisor of water treatment plants and the laboratory, a position he held until retiring in October 2005. Larry was instrumental in ushering in the second century of Minneapolis Water Works (which began in 1867); involved in piloting the softening process; and overseeing the water quality and adjustments for the entire treatment process. Over his five different decades of service, the treatment plants went from entirely manual operations to SCADA systems for real-time control and monitoring. “Larry’s desk was always covered with one to two feet of books, mail, periodicals, reports, etc., but the stacks were always well organized,” recalled longtime co-worker Jay Whitaker, who added, “He seemed to mostly eat lunch at his desk and enjoy ridiculously healthy foods.”

Larry was active in the North Central (later Minnesota) Section of the American Water Works Association. He served as the Section’s chair in 1995, received the Leonard N. Thompson Award in 1982, and for many years was the co-editor of the section’s quarterly magazine, The Breeze.
Industry News

Bacteriological Sampling Plan Requirements and Guidance

Sample Site Locations
PWSs must collect total coliform samples at sites which are representative of water quality throughout the distribution system, and the samples must be analyzed by an MDH-accredited laboratory.

- Use easily accessible sites (24/7 access, if possible)
  - Spread sites throughout the distribution system
    - Divide system into segments/quadrants and choose sites from each area
  - Use sites in different pressure zones
  - Use sites in areas that serve sensitive populations
  - Use sites fed by different storage facilities
  - Use sites that have an available upstream and downstream site within five service connections
  - Sample from taps that are in good condition (avoid bathrooms, outside taps, taps close to the ground, etc.)
  - Use sites that get a fair amount of use on a regular basis (avoid seasonal sites or large diameter service connections that aren’t used regularly)
  - Avoid dead-end sites

Sample Scheduling
PWSs must collect samples at regular time intervals throughout the month, except that a system that uses only groundwater and serves 4,900 persons or fewer may collect all required samples on a single day if they are taken from different sites.

- Systems may choose to use the same site location more than once a month, but the samples should be collected at least one week apart.
- Systems can collect more samples than required by the federal Safe Drinking Water Act.

  - 1 sample/quarter: use 2-4 sites
  - 2-5 samples/month: use 5+ sites
  - 5-10 samples per month: use 5-10 sites
  - 10-20 samples per month: use 10+ sites
  - 20-50 samples per month: use 10-25 sites
  - 50+ samples per month: use 25+ sites

Oddibe a Water Bill

Berra’s Riot/yr. Did you know you can also find information on a player’s water usage? In this case, it’s just one player, Oddibe McDowell, who played for several teams between 1985 and 1994 and may be best remembered for the Bermanism (broadcaster Chris Berman’s word plays on names) of Oddibe “Young Again” McDowell.

But thanks to some hacking done a few years ago, the alternative website www.deadspin.com began reporting McDowell’s water, wastewater, and storm water bills. The angle ended when Broward County, FL, finally protected its site with a password. In the meantime, McDowell’s utility bill was open for anyone to view (it appears he was a responsible water user) and lives on at the bottom of McDowell’s www.baseball-reference.com page at www.baseball-reference.com/players/m/mcdowod01.shtml.
The Smithsonian Institution’s Museum on Main Street program began its Water/Ways series of exhibits in Minnesota on June 25, at the Prairie Woods Environmental Learning Center outside Spicer. Minnesota was one of five states selected by the Smithsonian Institution to launch these traveling exhibits, which reveal the central nature of water in our lives and explore how water unites communities and how Americans care for our water and protect this valuable resource for the future, while seeking active solutions to real water problems.

As part of the Water/Ways exhibit, a companion exhibit, We are Water MN, has been developed to tell the Minnesota story and will accompany the traveling exhibit. Minnesota Department of Health assistant commissioner Paul Allwood spoke at the ribbon-cutting ceremony and said, “The Smithsonian exhibit gives us new understandings and new opportunities to learn about water.”

The exhibit moved to St. Peter in August and will be there until September 25. Here is the rest of the schedule for Water/Ways:

- Red Wing, October 1 to November 13, 2016
- Sandstone, November 19, 2016, to January 1, 2017
- Lanesboro, January 7 to February 19, 2017
- Detroit Lakes, February 25 to April 9, 2017

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Bloomington, MN, has the best tasting water anywhere, according to judges for the “Best of the Best” Tap Water Taste Test, which was recently held at the American Water Works Association Annual Conference and Exposition (ACE) in Chicago.

Brent Massmann accepted the award and celebrated his utility’s victory in a field that had more than 20 entries – each of them regional winners from water-tasting competitions across North America.

The city of Bloomington utilities employ more than 50 people to run the water treatment plant, do field maintenance, serve customers and administer the area. The division processes clear, clean water at the water treatment plant, and distributes it to the city’s more than 85,000 residents, while also processing the city’s wastewater.
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The Fall 2015 Waterline had a story about a workgroup of state agencies and other interested parties that are working to advance safe and sustainable reuse in Minnesota. Efforts include making recommendations for clarifying the regulatory pathway for water reuse and evaluating resources needed for successful implementation of water reuse. The workgroup is beginning the process of stakeholder input. Changes in water reuse policy may affect Minnesota’s public health, environment, infrastructure, and water management system, so it’s important that the group hear from key stakeholders to make sure sound recommendations are delivered to agency leaders and the legislature. There will be a 25-member Stakeholder Advisory Group representing interested parties that will meet four times between September 2016 and April 2017. Members were invited to participate on the advisory group because they represent organizations and entities that have a role in water reuse. Jon Eaton from the city of Eagan will represent water utilities. Even if you are not on the advisory group, you can still come to both stakeholder and workgroup meetings or provide input through the workgroup’s email at health.water.reuse.mn@state.mn.us. The initial advisory group meeting is scheduled for Monday, September 26, 2016 from 1:30 to 4:30 p.m. in the Minnesota Pollution Control Agency Board Room, 440 Lafayette Road in St. Paul. Learn more about this Clean Water Fund project, sign up for project updates, and find the group’s meeting schedule and opportunities for input at the project website: www.health.state.mn.us/divs/eh/water/dwp_cwl/reuse/index.html.

Mobile Art Lab

For the third summer in a row, Public Art, St. Paul, conducted its mobile art lab with a focus on water in Western Sculpture Park in St. Paul. “Making a difference in your own backyard: Rain gardens for water conservation and pollinators” was the theme for the summer, which featured 12 weekly workshops. Director of education Mary Johnson said the art lab and workshops “have demonstrated water quality concepts to participants and have had an added focus on eco-friendly art-making practices and environmentally friendly behaviors as a whole.”
June 2016 AWWA Updates
by Jon Eaton

Standards
AWWA publishes over 170 standards that provide requirements for design, installation, performance, and manufacturing of products including: pipe, chemicals, storage facilities, valves, meters, and other appurtenances and industry-recognized consensus requirements, as well as practices for water utility management and operations.

AWWA is accredited by the American National Standards Institute (ANSI) as an approved standards-developing organization for the water industry. Accreditation signifies that procedures used by AWWA, in connection with the development of American National Standards, meet the Institute’s essential requirements for openness, balance, consensus, and due process.

The following standards were approved by the Association at the June 2016 Board meeting:
• B302 Ammonium Sulfate
• B403 Aluminum Sulfate – Liquid, Ground, or Lump
• B405 Sodium Aluminate
• B451 Poly (Diallyldimethylammonium Chloride)
• C230 Stainless-Steel Full Encirclement Repair and Service Connection Clamps for 2 Inch Through 12 Inch (50 mm Through 300 mm) Pipe
• C900 Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 Inch Through 60 Inch (100 mm Through 1,500 mm)
• C903 Polyethylene–Aluminum–Polyethylene (PE-AL-PE) Composite Pressure Pipe, 12 mm (½ inch) Through 51 mm (2 inch), for Water Service
• C218 Liquid Coatings for Aboveground Steel Water Pipe and Fittings
• C300 Reinforced Concrete Pressure Pipe, Steel Cylinder Type
• C302 Reinforced Concrete Pressure Pipe, Noncylinder Type
• F110 Ultraviolet Disinfection Systems for Drinking Water

Policy Statements
Policy statements provide a record of the Association’s stance on a variety of issues and reflect the diverse interests of the membership.

The policy statement development process for the Association is designed to be open to full participation of the membership and to ensure careful review by appropriate AWWA boards, committees and other membership entities.

The following policy statements were approved by the Association at the June 2016 Board meeting:
• Intakes for Seawater Desalination Facilities (Revised)
• Research (Revised)

View any of the AWWA policy statements by visiting the following link on the web: http://www.awwa.org/about-us/policy-statements.aspx.
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AWWA Launches Revamped Water System Operator Series

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The American Water Works Association has relaunched its Water System Operations (WSO) series with fully revamped versions of Water Treatment, Grade 1; Water Treatment, Grade 2; and Water Treatment, Grades 3 & 4. WSO: Water Distribution Grades 1 & 2 and Grades 3 & 4 will be available this fall.

AWWA’s WSO series provides the foremost test preparation materials for water operator certification. Additionally, it is now the only book series aligned with current Association of Boards of Certification (ABC) Need-to-Know criteria. ABC administers water operator certification testing for the majority of North America.

WSO: Water Treatment, Grade 1, Grade 2 and Grades 3 & 4 are designed to assist water operators in preparing for the exams by focusing on core test content including regulations, specific treatment processes, water quality testing and treatment plant safety. Test questions, full color graphics and illustrations, and links to additional instructional videos are also included throughout each chapter to further assist students in their test preparation.

WSO: Water Treatment, Grade 1, Grade 2 and Grades 3 & 4 are available in AWWA’s online store.

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AWWA Announces Winners of AWWA’s Fresh Ideas Poster Competition

Winners from AWWA’s Atlantic Canada, North Carolina and Rocky Mountain Sections

(DENVER) – The American Water Works Association announced the winners of its annual Fresh Ideas student poster competition, which took place during the association’s Annual Conference & Exposition (ACE16) in June.

The first place winner is Stefana Egli from AWWA’s Atlantic Canada Section for her poster entitled “Thin-Film Molecularly Imprinted Polymers for Water Analysis.” As first place winner, Egli will receive $500 and the opportunity to write an article for Journal – American Water Works Association, AWWA’s flagship scholarly publication.

The second place winner is Jonathan Moreno from AWWA’s North Carolina Section for his poster entitled “Implications of Potential New Regulatory Scenarios for the Removal of Carcinogenic Volatile Organic Compounds by Granular Activated Carbon”.

The third place winner is Zach Stoll from AWWA’s Rocky Mountain Section for his poster entitled “Feasibility and Techno Economic Analysis of Microbial Fuel Cells for Energy Positive Wastewater Treatment”.

The Fresh Ideas Poster Competition was one of several special events at ACE16 geared toward AWWA members who are students and young professionals.

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<td>AE2S</td>
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<td>701-364-9111</td>
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<td>701-373-7980</td>
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<td>Bar Engineering Company</td>
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<td>763-479-3121</td>
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<td>844-Boerger</td>
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<td>800-727-2224</td>
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<td>Dakota Supply Group</td>
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<td>800-437-4702</td>
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