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## WARMING UP TO SPRING

KELLY GLEASON, EDITOR

**W**elcome to the spring issue of *Michigan Water Works News*! It's beginning to warm up and we can emerge from cold winter hibernations.

As usual, January was low key for me, and February was action packed. The Joint Expo & Operators Day went as planned and all the competitions were completed. Both the Lansing BWL teams won the State titles for pipe tapping, Battle Creek took the Hydrant Hysteria, and LBWL also took the title for Meter

Madness. Way to go and congratulations! Check out all competition results and info on the Expo on page 26.

Was one of your resolutions to increase your professional development? There are many classes available.

Make sure to check out all the training opportunities on page 46.

So, what have you been up to in the water world? Send pictures, stories, and updates to [kelly.gleason@lbwl.com](mailto:kelly.gleason@lbwl.com) with the subject line *Water Works News*. 💧

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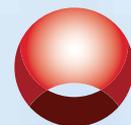


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# CONDITION ASSESSMENTS HELP TO REACH STRATEGIC GOALS

BILL FRITZ, CHAIR

**A**s 2019 is now underway, my wish for everyone reading this is that your former-self (see my last *Michigan Water Works News* article) has prepared you well for your current circumstances. If it has not, then I invite you to take some time to perform a self-condition assessment.

You won't be alone. Many organizations use spring as an opportunity to perform year-end assessments of actions taken on previous year's goals. The State of the Union, State of the State, County, Township, etc. could all be interpreted as condition assessment reports of their previous year's activities. Televised award shows that take place in the spring, such as the Oscars and Grammys, could also be interpreted as condition assessments of the entertainment industry.

On a personal level, after winter's end, we all should have a look around our homes and assess the impact that time and the elements have had on our roofs, appliances, and plumbing – and aren't New Year's resolutions the result of self-condition assessments?

Working in the water services sector, and more specifically in asset management, it is no surprise I have frequently referred to the guiding principles of asset management in my previous articles. Here I go again. Performing condition assessments is a crucial step in the overall process of asset management. The AWWA has plentiful supporting material on the topic (too many to reference here, but readily available on its website at [www.awwa.org](http://www.awwa.org)). Suffice it to say that anyone wishing to succeed in reaching their strategic goals will need to know their current state. This holds true initially, periodically, as well as prior to and after strategic initiatives are undertaken.

Performing these condition assessments is advantageous for several reasons.

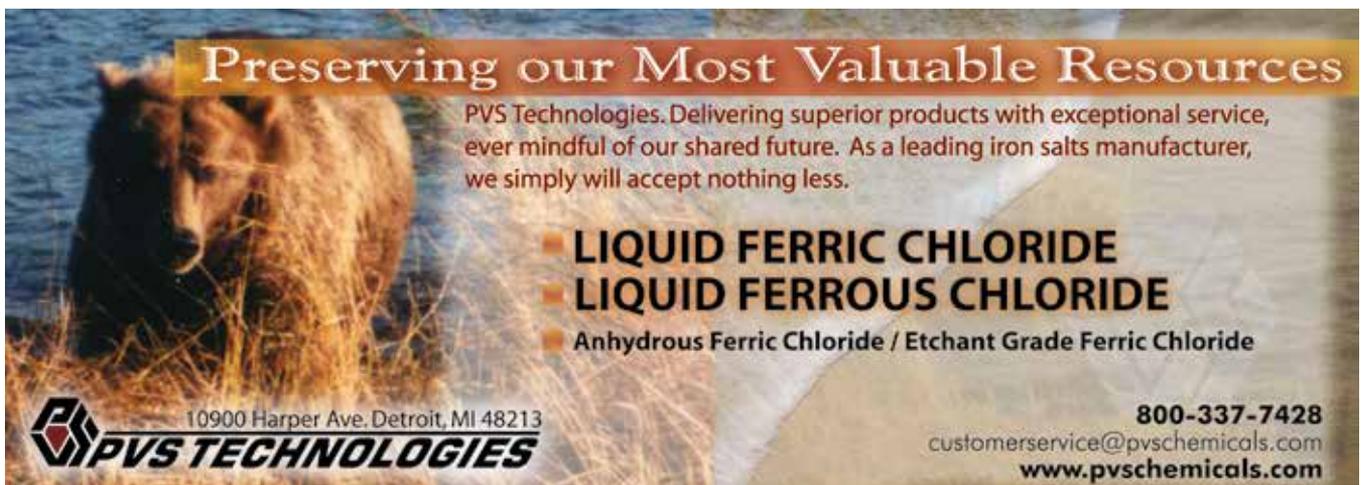
First, they allow us to estimate something's current state relative to the starting point and the final goal. This is important in determining a course of action. While this holds true for pipe and pumps, it could also be your career, your personal life, or even your health.

Secondly, periodic condition assessments give us the opportunity to celebrate

our successes. Any long-term effort will benefit tremendously from establishing, evaluating, and achieving milestones. These allow us to look backward and appreciate the improvements made. Conversely, periodic review can help to shine a light on areas where we may have strayed off-course or where progress has slowed. Lastly, condition assessments can have a rejuvenating effect, especially on long-term endeavors. Without the satisfaction of progress made that I just mentioned, a project can begin to suffer fatigue, experience a loss of momentum and lowering of morale, or even jeopardize the success of the entire project. Observing a project's successes, however, will refresh our commitment and affirm that our goals are sound and reachable.

With the new year ahead of you, I'll finish by repeating my request from the beginning of this article. Take some time to perform a self-condition assessment of *your* situation.

If you desire to grow professionally and if you are willing, AWWA has many volunteer programs, committees, and opportunities that can assist you in achieving your goals. 



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# ASSOCIATION INITIATIVES FOR 2019

MARK COLEMAN, DIRECTOR

The AWWA Board of Directors Winter Board Meeting was held on Saturday, January 26, 2019, and meeting highlights you may find of interest include the following:

Let's start with the Board of Directors selecting Melissa Elliott of Greenwood Village, CO, as the Association's next President-Elect. An AWWA member for 15 years, Melissa, former Director of Public Affairs with Denver Water, is a manager at Raftelis Financial Consultants. She has served as chair of the Association's Public Affairs Council and the Affordability Symposium Conference Committee and is a member of the AWWA Lead Technical Advisory Workgroup. Active in the Rocky Mountain Section, she has served as its Chair and Trustee.

Four Vice Presidents and one Director-at-Large were also elected during the annual winter meeting. The four elected Vice Presidents are:

- Elizabeth Carter. An AWWA member for 15 years, she is the Director of the Rocky Mountain Section and a principal engineer at Aurora Water in Colorado.
- Richard Hope. An AWWA member for nearly 30 years, he is a member of the Association's International Council and is the Director of the Wisconsin Section. He is a senior Vice President at AECOM in Stevens Point, WI.
- Lee Anne Jones. An AWWA member for more than 25 years, she is a member of AWWA's Finance Committee and is the Director of the Ontario Section. She is a senior project manager at Jacobs in Toronto, ON.
- Greg Lukasik. An AWWA member for more than 10 years, he is the Director

of the Montana Section. He is an Associate Principal at Great West Engineering in Billings, MO. Elected as Director-at-Large was our very own Cheryl Porter, Chief Operating Officer for the Great Lakes Water Authority in Detroit. Cheryl has been an AWWA member for nearly 15 years and is a Michigan Section Trustee. She also is a member of the Michigan Section's Government Affairs Council. She will serve on the Association's Board of Directors, along with our incoming Director Pat Staskiewicz, for the next three years. CONGRATULATIONS CHERYL!!!

All those elected will begin their new AWWA roles in June at the conclusion of AWWA's Annual Conference & Exposition being held in Denver, CO.

David LaFrance, AWWA Executive Director, outlined several 2019 initiatives, each designed to modernize the association's business practices and communication to the membership. Our standards are scheduled to be digitally produced and available 24/7/365 online by the third quarter of 2019. Not only will this assure members that they are using the most current standard, but as a bonus, users will be able to view red-lined versions of the current standard, highlighting changes made from previous versions. The Association will also be developing informational and 'how to' materials to assist our utilities and agencies tap into the recently passed *Farm Bill* 10 year \$4B source water protection allocation, as well as facilitate utility response to the *American Water Infrastructure Act* in terms of resilience and cybersecurity.

During its meeting, the Executive Committee established an Innovation AD HOC committee with a mission 'to advance a culture and structure for innovation to address the challenges facing the water industry.' The committee membership consists of folk from the affectionately called the Family of Five: utilities, consultants, regulators, academia, and technology providers. The committee's three primary goals are: provide an innovation roadmap, accelerate the uptake of innovation solutions, and promote active participation. Committee progress will be reported during each future Executive Committee meeting, so stay tuned.

There are many colloquial terms for the passing of time, such as 'time flies when you are having fun' and 'in the blink of an eye.' But perhaps the most appropriate for my use today comes from Henry Austin Dobson: 'Time stays... we go.'

As you read this, I will be approaching the end of my three-year Michigan Section AWWA Director term. The Director reins will be placed into the very capable hands of Pat Staskiewicz in Denver this June during ACE. These last three years have gone by in the blink of an eye, and I did have fun representing our Section at the Association both as your Director and Association Vice President. I like to think that, during this time, I have maintained our long-standing Michigan Section tradition of active participation in the Association to further the interests and Association value for all our amazing Michigan Section members.

Thank you for the privilege and opportunity! 💧



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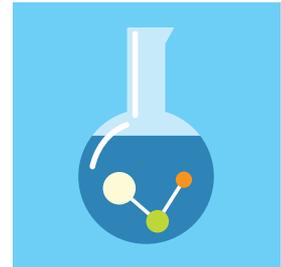
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# STRATEGIES FOR MANAGING STRESS

BONNIFER BALLARD, EXECUTIVE DIRECTOR

**T**he winter was a hard one and we're all looking forward to better weather. With spring comes lots of trainings, gearing up for licensing exams, and all the projects that had to wait for the change in seasons – and that's just at work. We all have family and friends we want and need to spend time with. It's a busy time of year. All the demands on our time and attention can be stressful. That's why I thought it might be helpful to share some strategies I've learned for managing stress.

## SPEND TIME REFLECTING.

For those of us driven to do more or those who simply like to keep moving, sitting around apparently doing nothing can feel like a waste of time and just add stress. However, learning doesn't take place and you aren't living purposefully if you don't spend time reflecting on your successes, your mistakes, or even just the week in general. I do that when I'm sanding a woodworking piece or when I'm doing a crochet pattern I know well. Anything where your brain can drift while your muscle memory takes over. (Try not to do this while driving though. That wouldn't end well.)

## USE THE POWER OF POSITIVE THINKING.

On days when you're feeling particularly grumpy or dreading a particular task, remember to say out loud, "Today is going to be a great day!" Yes, it feels hokey. And if anyone hears you, they may wonder if you've finally had a breakdown. But there is evidence that shows positive thinking changes your brain chemistry for the better. Saying these positive thoughts aloud can actually change how you perceive your situation.

## PRACTICE LETTING GO.

When the work is piled on or you have too many extra-curricular activities to attend or participate in, something has to give. Practice letting go of the tasks or worries that really aren't adding any value to your work or life. Remember, perfect is the enemy of good. That doesn't mean that we shouldn't strive for excellence. Just try to find that balance of when you need to let something go and move on.

## CARVE OUT BRAIN BREAKS.

Sort of the opposite of reflecting is taking time to use your brain in a completely different way. For me, this is riding my motorcycle. Riding takes concentration in a way that nothing else does and this relaxes me. I can think about the sound of the engine, what gear I'm in, when to lean around a curve, how far to lean, being aware of traffic, the list goes on. The act of focusing on only riding helps my brain reset, so that I can come back to the stressors with a fresh perspective and renewed energy.

## TAP YOUR PEOPLE.

Whether you're an introvert or an extrovert, we all get support and energy from those we're closest to (family and friends). Spend time with your people doing something you enjoy, even if it's just hanging on the patio with a cold beer and good conversation. (One guy I know gets elbow deep in restoring tractors!) Find your people and lean in.

## KNOW WHEN IT'S TIME FOR A CHANGE.

After all the stress management strategies, you may still find that the stress is too much. The hardest thing is knowing when it's time for a change, but sometimes that's the only option left – because life is too short to stay in a bad situation. 💧

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# Leading the **WATER IMPROVEMENT** Movement

MI-AWWA teams with MI CLEAR partnership to protect, preserve Western Lake Erie Basin

## Improving **LAKE ERIE** From Every Direction

BY CHRISTINE SPITZLEY

The MI-AWWA is helping lead a unique coalition working to improve water quality in the Western Lake Erie Basin.

The Michigan Cleaner Lake Erie through Action and Research (MI CLEAR) Partnership is a coalition of environmental and agricultural leaders, conservationists, universities, and other concerned stakeholders with the goal of protecting, preserving, and promoting understanding through:

- Open discussion among regional leaders.
- A coordinated perspective to existing efforts.
- Support for research that builds understanding of science around water quality issues.

• Actions that bring meaningful change. Among the group's priorities is furthering knowledge of algal blooms and how to prevent them from occurring in the Western Lake Erie Basin (WLEB), which in Michigan comprises a six-county region: Jackson, Hillsdale, Lenawee, Monroe, Wayne, and Washtenaw.

"MI CLEAR is examining multiple factors of algal bloom formation as part of developing a holistic solution," said MI-AWWA Executive Director Bonnifer Ballard. "Partnerships with the public and private sectors are essential to this endeavor."

### **COMMON BOND**

The MI-AWWA is one of the founders that formed the partnership in 2017. The

ultimate objective is to improve the long-term water quality of Lake Erie and its tributary waters, with the goal of reducing the phosphorus amounts entering Lake Erie by 40% by 2025.

"MI CLEAR aligns with our mission to advance water knowledge," said Ballard. "We recognize water technology is constantly progressing and research is always revealing new things, so we've welcomed the opportunity to share MI-AWWA's expertise."

Lake Erie has evolved over decades and continues to change. New technology will play a big role in finding a solution. Breakthroughs are happening all the time.

"Many groups, organizations, universities, and agencies are doing something to advance some aspect of the situation," said Andrea Stay, a grants and training liaison with the Michigan Department of Agriculture and Rural Development's Environmental Stewardship Division.

"MI CLEAR's value is getting as many stakeholders as possible to a single table," she said. "We can not only understand the changing chemistry of the lake more quickly, but we are also able to move faster on thoughtful recommendations for improving the situation."

### ATTACKING ALGAL BLOOMS

Experts agree on the need to prevent algal blooms – excessive growths of algae on the surface of the water which typically occur during warm weather and after heavy rainfall.

The algal blooms appearing on Lake Erie in recent years are fed by nutrients that arrive via local waterways. More nutrients result in more algae growth, and as that algae decomposes/decays, it pulls oxygen out of the system, creating the hypoxia, or 'dead zone,' where fish can't live because the oxygen has been depleted.

While some blooms can be dangerous, it's important to remember that many are non-toxic. The causes of the blooms are complex with no single cause.

"No one knows for sure how or when an algal bloom will appear," Stay said. "The complexity of bloom growth – including the identification of every contributing factor – makes it a difficult subject to tackle. But with every occurrence, more data is collected and overall knowledge on the subject increases."

### WHAT MICHIGAN IS DOING

Michigan's Domestic Action Plan for Lake Erie sets the road map for improving Lake Erie's health. Among the actions Michigan is taking:

- Reducing phosphorus loads from the River Raisin watershed and Michigan's portion of the Maumee River watershed.



Water sampling training in the S.S. Lapointe Drain watershed. The area's watershed management plan project was funded by a state government non-point source grant. Photo courtesy of River Raisin Institute.



Canine handlers used trained dogs at Luna Beach to identify E. coli by smell. Luna Beach and the S.S. Lapointe Drain watershed feed directly into western Lake Erie. Photo courtesy of River Raisin Institute.



Monroe County farmers and specialists discuss agriculture drainage control structures in an effort to prevent nutrients from entering local waterways. Photo courtesy of Monroe Conservation District.



Ducks Unlimited works to protect coastal wetlands in southeast Michigan that provide a valuable buffer against pollutants entering Lake Erie. Photo courtesy of Ducks Unlimited.



Michigan State University's underwater gliding robotic fish research could be used to help monitor annual algal blooms in Lake Erie. Photo courtesy of Michigan State University.



Wayne County students learning hands-on lessons for improving Lake Erie.



Wetland restoration projects along the Lake Erie shoreline are vital to reducing algae bloom outbreaks. Photo courtesy of Ducks Unlimited.

- Research to better understand the causes of blooms.
  - Partnerships to provide technical and financial assistance to farmers.
  - Outreach to the public and farmers to promote understanding of good conservation practices.
  - Promoting wetland restoration and other land management initiatives.
- The plan also tightens permit requirements for wastewater treatment facilities, aims to restore and improve wetlands, and supports efforts to help farmers improve their operations using the latest science customized to their unique needs.

Since 2008, the total phosphorus entering Lake Erie from Michigan's River Raisin has been reduced by about 20% and total phosphorus loads from the Detroit River have been reduced by approximately 32%.

### EDUCATING THE PUBLIC

Concern about algal blooms in the Great Lakes is high throughout Michigan, knowledge on the topic is low, and Michigan residents trust farmers to help find solutions that will improve water quality in Lake Erie, according to a 2017 MDARD-commissioned survey.

To grow awareness, MI CLEAR's members have developed a grassroots

communications plan that incorporates public speaking engagements with local Rotary Clubs and chambers of commerce, highlighting scientific accomplishments through the news media and publicizing the contributions that MI CLEAR stakeholders are achieving to improve the WLEB.

The results are impressive: multistate media coverage in many of the Great Lakes' largest news publications, including the *Detroit Free Press*, *Detroit News*, *Lansing State Journal*, *Toledo Blade* and the *MLive* network of newspapers in Ann Arbor, Flint, Saginaw, Bay City, Jackson, Kalamazoo, Grand Rapids, and Muskegon.

### CALL TO ACTION

One of the keys to engaging the public in the push to improve Lake Erie is a call to action that explains how all residents in the WLEB can do their part.

The message is simple:

- Follow directions for safe application of fertilizers, herbicides, and pesticides.
- Don't dump grass clippings or other landscaping debris into any water body or onto an area that can wash into a water body.
- Never throw anything into a storm drain or onto a paved surface that washes into one.
- Service your septic tank regularly.
- Dispose of pet waste in the trash or toilet.
- Volunteer with a local conservation group or watershed council.

"There is no quick and easy 'fix' for Lake Erie," said Ballard. "But we're hopeful that this collaboration will help restore and protect the basin. By working together, we are improving Lake Erie from every direction."

Follow the MI CLEAR Partnership on Facebook at [www.facebook.com/MICLEARPartnership](http://www.facebook.com/MICLEARPartnership).

Christine Spitzley, AICP, is a Principal at OHM Advisors. She is also Past Chair of the MIAWWA Board of Trustees and the MIAWWA liaison to MI-CLEAR. 💧

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# HOW ARE YOU *Celebrating* WATER?

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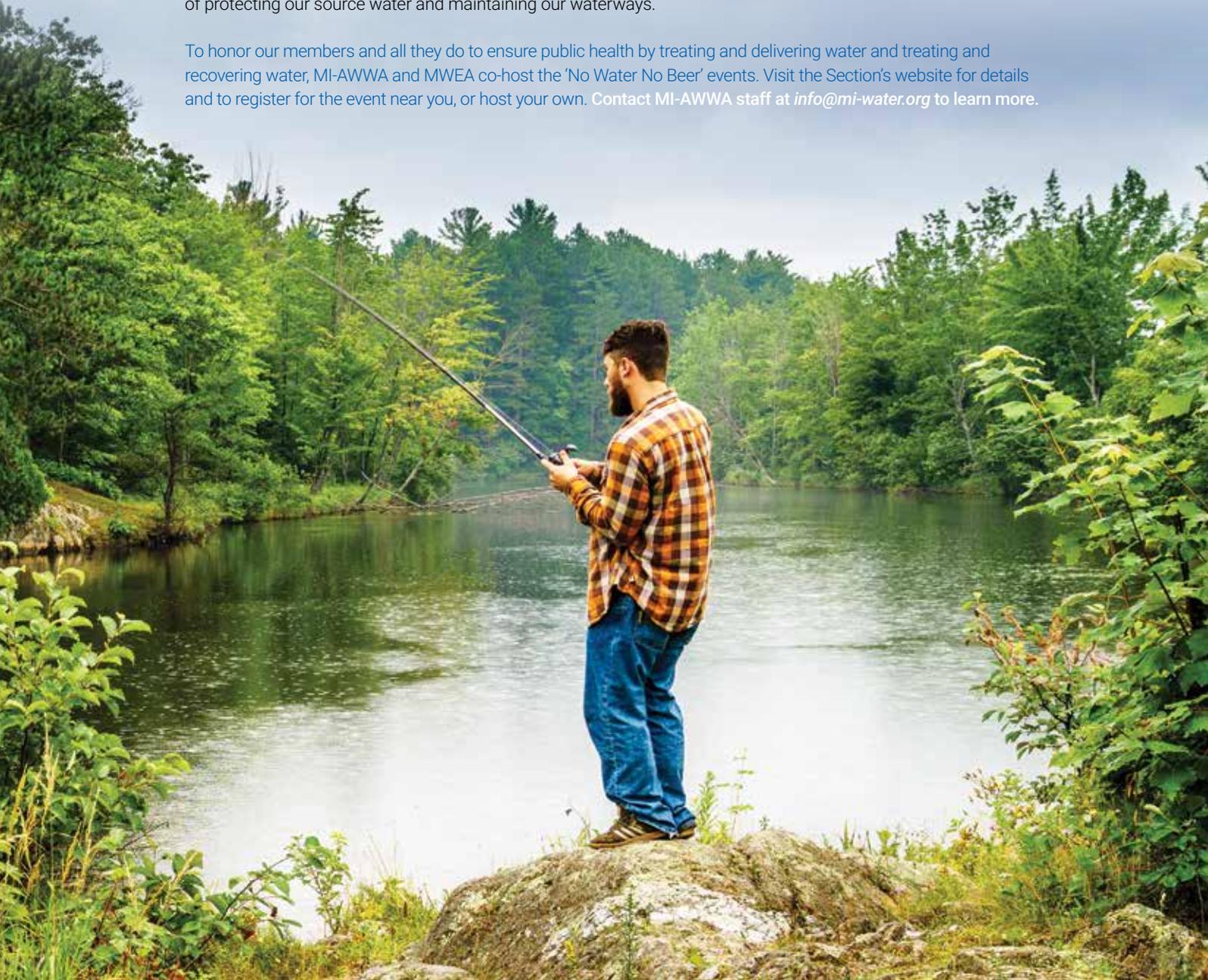
## **DRINKING WATER WEEK**

Sponsored by AWWA, Drinking Water Week is the first full week in May: this year, May 7-13, 2019. This is a time when community water supplies across the country hold tours and fairs, participate in outreach activities, and use creative ways to education their customers about the value of water. Check out the AWWA website, register your community as a participant and engage your community in celebrating the value of water.

## **WATER AWARENESS MONTH**

Here in Michigan, MI-AWWA collaborates with MWEA (Michigan Water Environment Association) to honor the total water cycle by designating May Water Awareness Month. Throughout May, we encourage all water professionals to educate their constituents and customers about the water cycle and the importance of protecting our source water and maintaining our waterways.

To honor our members and all they do to ensure public health by treating and delivering water and treating and recovering water, MI-AWWA and MWEA co-host the 'No Water No Beer' events. Visit the Section's website for details and to register for the event near you, or host your own. Contact MI-AWWA staff at [info@mi-water.org](mailto:info@mi-water.org) to learn more.





## PIECES FROM THE PAST

# THE GRAND RAPIDS HYDRAULIC COMPANY

BY WAYNE JERNBERG, PAT STASKIEWICZ, GREG ALIMENTI

**T**he history of water supply to the City of Grand Rapids starts in a unique place: the Grand Rapids Hydraulic Company. The first water system was built in 1848, when Grand Rapids was still a village. The Grand Rapids Hydraulic Company (GRHC) was incorporated in 1849 'for the purpose of conducting a plentiful supply of pure, wholesome water to the said village, for the use of the inhabitants of said village, and to supply reservoirs for extinguishing of fires.'

The first system was built with wooden logs, primarily pine, that were approximately 12 inches in diameter. A three-inch bore was cored in the log through a special auger powered by water from the Grand River and canal. The logs were installed in a ditch no deeper than three feet. The original source of water in 1849 was a large spring located near the current day block of Fountain Street, between Ransom and Bostwick streets. The system was gravity-fed from the springs up the hill to the east.

Within a year, the GRHC had more customers than the Fountain spring could supply. In 1850, the village became a city and the GRHC spent much of the early years searching for more good sources of water and expanding the system to meet the needs of a growing population. Additional wooden logs were extended to other springs in the area, including one near the Jefferson/Wealthy intersection, and more springs further south. By 1854, the GRHC had tapped into a larger spring near Hastings and Ottawa and the first iron pipe laid in the City was in 1857 on Monroe Avenue.

In 1872, the GRHC installed a large brick reservoir 30 feet deep near Madison and Wealthy to capture additional water to try to keep up with the growing demands. By 1873, the City residents became frustrated by the lack of water for firefighting and voted to build their own water system, which was completed in 1875 – capturing water from nearby Coldbrook and Carrier creeks.

By 1886, the GRHC decided it needed additional capital to 'revolutionize' its operations to a pumped system to keep up with the City Water Works. The GRHC built its 'red' standpipe reservoir near the corner of Newberry and Clinton in 1886, near Lookout

Park. The standpipe was approximately 20 feet in diameter and 100 feet tall and was constructed of up to half-inch steel boiler plate. By 1888, the GRHC had built a three million gallon per day pump station along the Grand River near Leonard Street and installed almost 15 miles of cast iron pipe (six-inch to 12-inch). Only about three to four miles of wood pipe remained at this time.

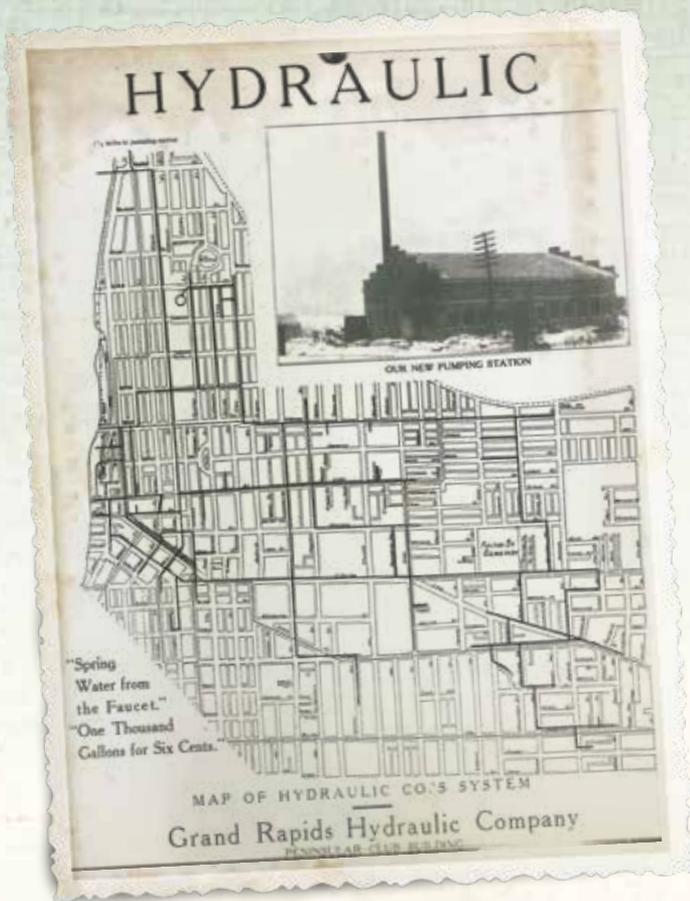
The growth of each system led to a series of conflicts between the two water systems. A *Detroit Free Press* article from August 4, 1886, reported, "The Grand Rapids Hydraulic Company, composed of Boston capitalists, will go ahead with their 'pure water' system, and excavations for a gallery system are already commencing... Pure water and plenty of it is what will make Grand Rapids people proud."

The City eventually sued the GRHC in 1887, as it claimed the GRHC was "continuously tearing up City streets" to lay its pipes. The Michigan Supreme Court eventually upheld the GRHC charter in 1887, stating it had the right to enter the various streets under proper supervision, thereby dismissing the City's suit.

Throughout the 1880s and 1890s, eastern capitalists pumped money into the GRHC, with the end goal of a water monopoly in Grand Rapids. Between 1887 and 1890, the GRHC made at least four attempts to buy out the City plant and even considered selling the GRHC system to the City at a value nearly four times the value of the GRHC assets. In 1889, the first mention of using Lake Michigan as the water source for Grand Rapids was reported. The GRHC and its investors had reportedly 'made arrangements for the necessary means to provide the city with a water supply from Lake Michigan.'

This overture was made during an attempt to buy the City's system. Throughout the negotiations, the City recognized the value in buying the GRHC facilities, but realized it had to be done at fair market value. All proposed deals would fail. Shortly thereafter, the financial difficulties of the GRHC would become public knowledge.

By 1893, the GRHC was having difficult financial problems and were ordered into receivership by the courts. In an article from *The Morning News* (Wilmington, DL) in January 1892, the GRHC was sued by a group of investors for \$119,000 and lost. It had acquired a loan of \$100,000 to expand its operations



and failed to pay the notes. Numerous receiver notes had been issued between 1893 and 1904 to keep the GRHC in business, but no money could be established in a sinking fund 'to meet emergencies or pay old debts.'

In 1904, the rates of the GRHC were identical to the City's water system. From 1901 to 1903, the GRHC operated at a loss each year, with revenues of \$14,243 per year versus expenditures of \$15,218 per year. By 1904, the GRHC's pump station and well structure, a 30-foot deep brick, concrete, and wood structure, were quickly falling into disrepair. An October 13, 1904, article in the *Grand Rapids Evening Press* stated service was becoming inadequate in the extents of the GRHC system and "a large number have discontinued the connection because of unsatisfactory service."

In 1905, the state legislature revoked their charter (a decision upheld in the Supreme Court in 1908), effectively dissolving the GRHC: the City of Grand Rapids will be the sole supplier of water in Grand Rapids, with its water from the Grand River totaling between 14 and 18 million gallons per day. Eventually, in 1920, the City bought the GRHC assets for \$30,000, which was the original capital in the company.

There are many cast iron watermains installed and used by the GRHC still in use today by the City of Grand Rapids. The City of Grand Rapids archives still contain the older mylar section maps for the watermain infrastructure. In those old mylar maps, the watermains were labeled as 'Hydraulic' if they were taken on by the City when it assumed the assets of the GRHC. 💧

Source: Grand Rapids Historical Commission website:  
<http://www.historygrandrapids.org>

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## Authors:

Gwen Kubaki, PE  
Joseph Quinnan, PE, PG  
Kirk Nowack, PhD

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That's a Wrap!

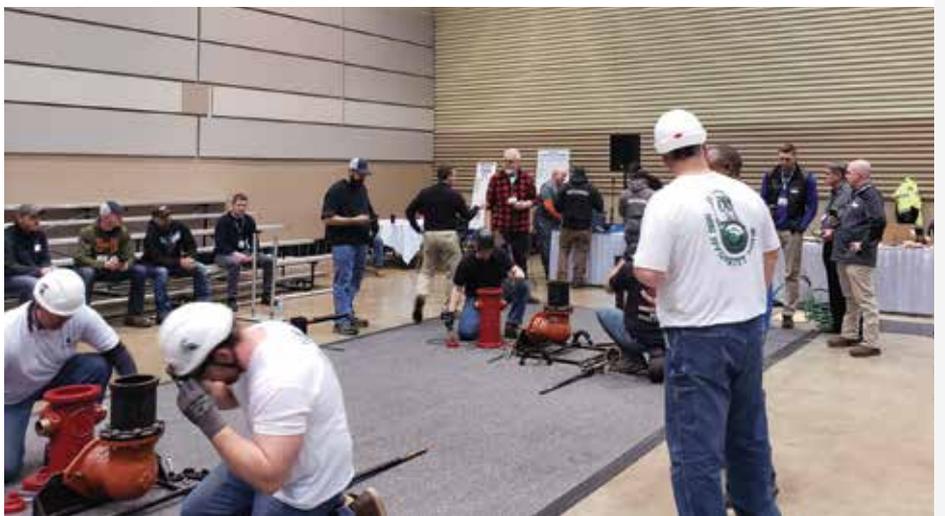
## Another Joint Expo & Operators Day in the Books

The 2019 Joint Expo & Operators Day was another success, bringing record numbers of water professionals from across Michigan and from both sides of the tap together to learn and explore new products and services.

Here are some highlights from the show:







## State Competitions

### Results are In!

Another set of riveting competitions have come and gone: the 2019 Michigan Section State competitions took place on Tuesday and Wednesday, February 5 and 6, during the Joint Expo in Lansing.

### Water Tapping

Two men's teams and two women's teams came ready to fight for the State title. The Troy men's team were first at the main. They completed two taps with times of 1:54.16 and 1:43.15, setting the time to beat for the men. The Troy women's team, Smooth Operators, followed: they completed two runs with final tapping times of 2:18.53 and 2:03.25, setting the time to beat for the women.

The LBWL men's team, Michigan Tappers – defending State Champions – tapped next and finished with a time of 1:24.25, maintaining status as State Champions. The LBWL women's team, Lansing Lethal Ladies, tapped next and finished with a time of 1:46.13, maintaining the State title and setting a record for the women's teams.

The winners will be representing the Michigan Section AWWA at the National competition held in Denver this June: the LBWL men's team, and LBWL's Lethal Ladies. Congratulations to all teams for outstanding performances.



### Hydrant Hysteria

Hydrant assembly teams from Lansing Board of Water and Light, Battle Creek, Troy, and Michigan State University were challenged to assemble a fire hydrant in a timed event. In addition to speed, teams were scored on quality, as the main seat had to be closed and all fasteners and caps had to be tight.



Battle Creek #2 team took first place, followed by MSU Spartans and Battle Creek #1 team. Congratulations! Reuben West, Andrew Matthews, and coach Mark Olmstead will be representing the Michigan section at ACE19 in Denver for the 2019 national competition.

### Tapping Teams Present:

#### LBWL Michigan Tappers

Coach: Blake Kalchik  
Set-Up: Jon VanDommelen  
Cranker: Brad Lundquist  
Copper: Richard (Moe) Garza

#### Lansing Lethal Ladies

Coach: Remecho Sanders  
Set-Up: Beth Zimpfer  
Cranker: Kelly Gleason  
Copper: Marissa Klimkiewicz

#### Smooth Operators

Coach: Mike Schlegelmann  
Set-Up: Jeanette Menig  
Cranker: Nikki MacMillan  
Copper: Kelly LaPointe

#### Troy Tappers

Coach: Scott Carruthers  
Set-Up: Dave Redcap  
Cranker: Eddie Sailes  
Copper: Rich Wiles

### Meter Madness

This year's Meter Madness contest took place right after the Hydrant Hysteria contest wrapped up. The contestants performed two runs each, striving for the best time. The competition was fast and furious, with Jon VanDommelen coming in first with a winning time of 45:27 seconds! Second and third place went to Rick Greenwell and Chris White, respectively.

Great job to all the contenders! Good luck to John VanDommelen the Michigan-Section 2019 Meter Madness Champion!

### Meter Madness Participants:

Jon VanDommelen, LBWL  
Rick Greenwell, City of Troy  
Chris White, City of Ionia  
Chris Rovig, MSU  
Aaron Jackson, LBWL

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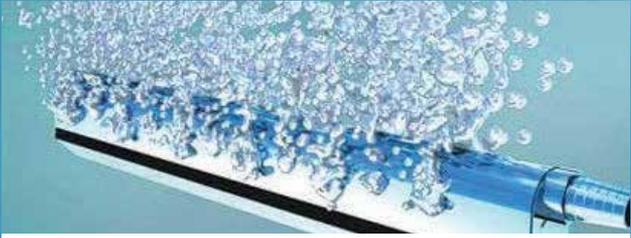


A special thank you to our Mixer sponsors – a great time was had by all!

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#ValueWater





# TOP 5 Myths

## About Benchmarking Your Utility's Performance

BY FRANK ROTH, SENIOR POLICY MANAGER, ALBUQUERQUE/BERNALILLO COUNTY WATER UTILITY AUTHORITY

Water utilities that benchmark performance gain valuable insight into where they stand in the marketplace and what strategies can improve their success. However, those who hesitate to participate in AWWA's Utility Benchmarking Program lose this valuable advantage. These benchmarking myths were compiled at the 2018 Utility Management Conference to help utilities better understand the process.

**MYTH #1:**  
**BENCHMARKING DOESN'T APPLY TO US BECAUSE WE'RE UNIQUE.**

Because every utility is unique, AWWA's Utility Benchmarking Program applies well-defined, time-tested performance indicators specific to the water sector. Your utility's practices are compared with others of similar size, geographic location, or treatment processes. The Benchmarking Program uses metric data definitions and calculation methods refined over 15 years for more than 40 performance indicators covering water and wastewater utility business areas.

**MYTH #2:**  
**THE SURVEY RESULTS ARE NOT SPECIFIC ENOUGH FOR US TO USE.**

Your utility's performance indicators are compared against aggregate data for participating utilities in the same service group. Your customized report highlights specific areas where performance can be improved, and practices or policies can be established or revised. In addition, benchmarking comparisons can be an effective way to demonstrate your performance to stakeholders, such as customers, boards, city councils, and regulators.

**MYTH #3:**  
**THE SURVEY TAKES  
TOO MUCH TIME TO COMPLETE.**

You have approximately 12 weeks between January and April 1 to compile your responses. Start by determining which measures are most relevant for your utility, then regularly track and evaluate the results and link them to improvement strategies. The process also can be used to report on customer and environmental targets, communicate with stakeholders, compare with other utilities, and link to industry-wide frameworks such as Effective Utility Management (EUM).

**MYTH #4:**  
**OUR UTILITY IS SLOW TO CHANGE.**

Benchmarking data supports change because it clearly shows where there are inefficiencies and what revised performance targets are possible. You can develop specific improvement plans and use benchmarking to measure outcomes. Utility decisionmakers can link AWWA performance metrics to internal strategic plans, asset management, levels of service, maintenance programs, regulatory achievement, and overall performance management. Many of these performance assessment programs can be found in the EUM and the AWWA's partnership programs for Safe Water and Clean Water.

**MYTH #5:**  
**THE SURVEY IS MORE USEFUL FOR  
LARGER, RESOURCE-RICH UTILITIES.**

All sizes of utilities from the US, its territories, and Canada participate in the survey. Results are aggregated so they can be generalized for all utilities, regardless of size. AWWA also analyzes outliers to determine if unusually high or low values were intended as reported. All data and information exchanges are based on useful, predictable, and common definitions of data and practices.

Now that these benchmarking myths have been busted, sign up today for AWWA's Utility Benchmarking Program. 💧

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## Michigan Night at ACE<sup>19</sup>

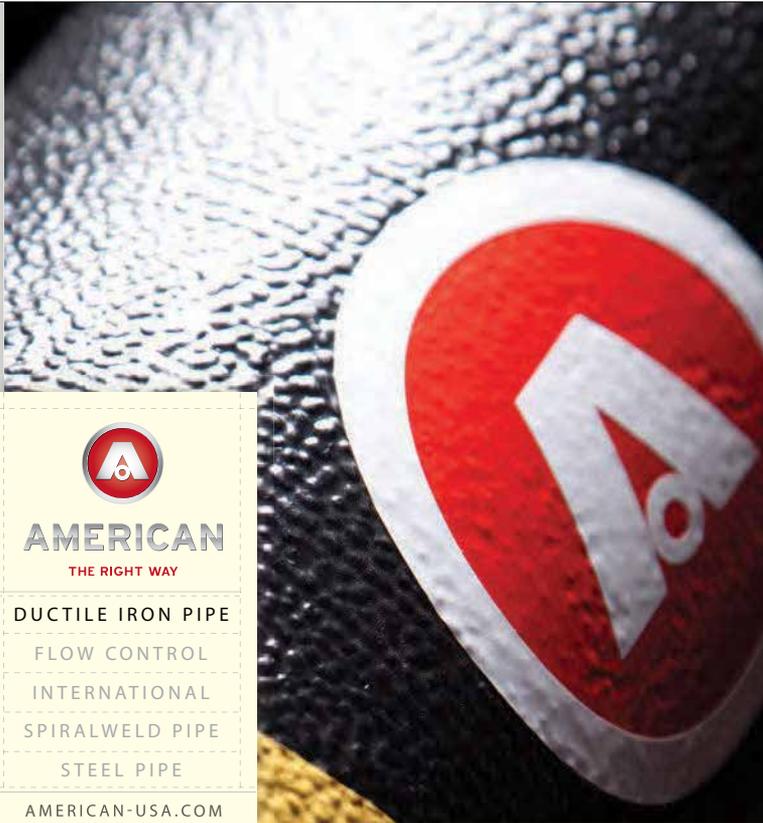
Are you headed to Denver for AWWA's Annual Conference and Exposition (ACE19)? If you arrive Sunday, plan to meet up with your fellow Michiganders for Michigan Night. This popular reception is back and offers a great way for you to meet up with colleagues from across the state or around the country before the busy schedule of ACE19 really gets going.



---

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## MICHIGAN SECTION AWWA NEEDS YOU!

### Nominations Solicited for the Michigan Section Board of Trustees

The Nominating Committee is seeking candidates for terms beginning in September 2019 (in conjunction with the Annual Conference) for the following positions:

**Trustees:** two each for three-year terms

**Secretary Treasurer:** three-year term

**Chair Elect:** three-year term

Self and peer nominations are both encouraged. Please also note the bylaws of the Section indicate we should strive to have one Board member from the Upper Peninsula of Michigan, and one Board member either from the area of the Lower Peninsula north of Town Line Fifteen or from any district, area, or community

in the Lower Peninsula maintaining water service to a population under 10,000 persons at the most recent Federal Census. The representation of the Board members is intended to reflect the diverse membership of the Section, including, but not limited to, geographical locations, membership categories, utility size, gender, and ethnic origins. Any member in good standing of the Section, including a multi-section Member, is eligible to hold elective office in the Section.

A nomination should include a short statement of interest and a summary of industry and AWWA activities. Interested members are encouraged

to contact any of the Nominating Committee members with any questions. Committee members are Pat Staskiewicz (Chair), Mark Coleman, Paul Reinsch, Aaron Uranga, Cheryl Porter, Wayne Jernberg, Amy Vail, and Jamie Hockemeyer.

Nominations are due by **April 15, 2019**, and should be submitted using the form on the Section website at <https://mi-water.site-ym.com/general/custom.asp?page=brdnomination>. Members who have submitted nominations in previous years and would like to be considered for this year should complete a new nomination form. 💧

## ABOVE THE BRIDGE

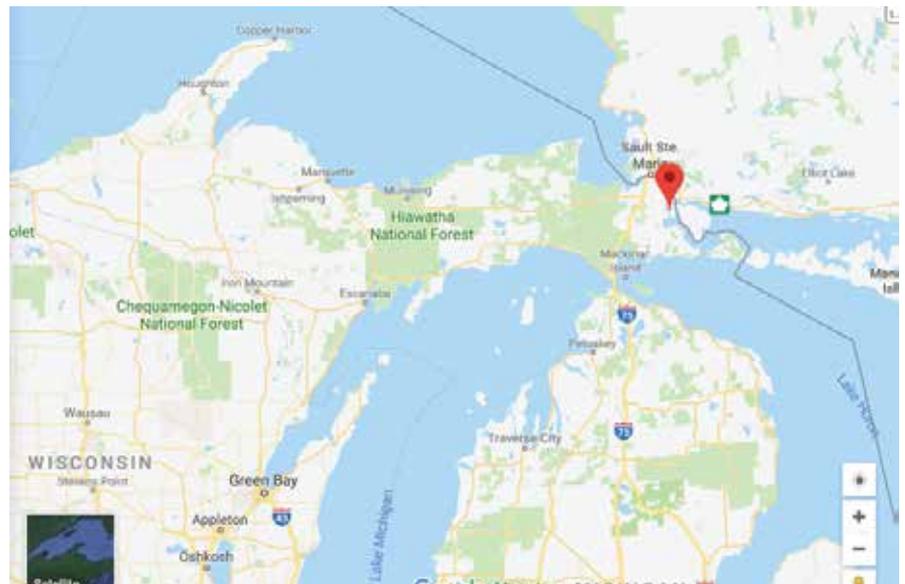
If you're from Michigan, you have probably been 'up north.' But to truly be up north, you must cross the Mackinac Bridge – and then you enter a different world that is Michigan's Upper Peninsula.

The UP has its own unique character and the water systems have some unique challenges, too. This column will highlight what is unique about water in the UP and help share the love we all have for this Michigan jewel – so let's get acquainted.

Bordered by Lake Superior, St. Mary's River, Lake Huron, and Lake Michigan, as well as Wisconsin, Michigan's Upper Peninsula is home to about 3% of the Michigan's population – but includes 29% of the state's land area. The largest city is Marquette, with just over 21,000 people, while Keweenaw County is home to just over 2,000 people.

Home to two national forests, many state parks, and plenty of campgrounds, the UP boasts rivers, waterfalls, and plenty of wildlife, and offers an endless playground for those who love the outdoors.

This seemingly idyllic gem has its challenges, though. Winters are long and



harsh. The Section's Upper Peninsula Coordinating Committee works diligently to provide trainings at the UP Water Works Institute (coming up soon) and the UP Distribution Seminar (in the fall) that offer information unique to what water operators on both sides of the tap need to

be most effective in managing their water systems in the UP.

In coming issues, we'll be highlighting some of those systems and challenges, to share perspective on what it is like for our colleagues 'above the bridge' to deliver clean, safe water to their communities. 💧



# ASSET MANAGEMENT 'POTPOURRI'

By Maureen Wegener

Feeling overwhelmed by all of the asset management discussions, seminars, webinars, etc.? It's a challenge trying to keep up on all the 'current events' in the infrastructure arena, from MDEQ requirements for asset management programs to the 21st Century Infrastructure Commission to new and/or pending policies and legislation, it could almost be a full-time job.

A 'cheat sheet' or list of 'shortcuts' would allow for quick updates or for more detailed study as time allows. As such, we encourage you to utilize the following collection of resources, another tool of sorts, from peers in the water/wastewater industry who have already researched pertinent asset management related topics.

## Key Definitions/

### Consistent Terminology:

**Asset management:** means an ongoing process of maintaining, upgrading, and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment and investment to achieve performance goals (*MI Public Act 324 of 2018*).

**Asset:** means infrastructure related to drinking water, wastewater, stormwater, transportation, energy, or communications, including, but not limited to, drinking water supply systems, wastewater systems, stormwater systems, drains, roads, bridges, broadband and communication systems, and electricity and natural gas networks (*MI Public Act 323 of 2018*).

### Reference Materials/Links and Legislative Activities/Information:

- *Effective Utility Management: A Primer for Water and Wastewater Utilities*; [www.watereum.org](http://www.watereum.org)
- *Findings and Recommendations for a Water Sector Utility Management Strategy, 'Attributes of the Best Managed,' 2007*; created by seven collaborating organizations,

including WEF, NACWA, USEPA, AMWA, APWA, AWWA, NAWC.

- *Asset Management for Water and Wastewater Utilities*; [www.epa.gov/sustainable-water-infrastructure/asset-management-water-and-wastewater-utilities](http://www.epa.gov/sustainable-water-infrastructure/asset-management-water-and-wastewater-utilities).
- *International Infrastructure Management Manual*; this 'ultimate' reference document was first published more than 20 years ago.
- *Managing Public Infrastructure Assets to Minimize Cost and Maximize Performance, 2001*, AMSA (commonly known as the *Asset Management Handbook*); free for WEF members.
- *Implementing Asset Management: A Practical Guide*, WEF.
- New ENVISION Fact Sheet – *Use of the Envision Sustainable Infrastructure Rating System for Water Infrastructure*, WEF.
- *Measuring the Success of Your Asset Management Program*, AWWA Webinar.
- *2018 AWWA Utility Benchmarking Performance Management for Water and Wastewater*.
- Check the MDEQ website for postings about the new Lead and Copper Rule (LCR), including Summary of Changes, FAQs, seminars/workshops, and webinars, at [www.michigan.gov/deq/0,4561,7-135-3313\\_3675\\_76638--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3313_3675_76638--,00.html).
- *New AWWA Standard C-810-17 Replacement and Flushing of Lead Service Lines*.
- *Lead Service Line Replacement Collaborative*; [www.lslr-collaborative.org](http://www.lslr-collaborative.org).
- *21st Century Infrastructure Commission*: a statewide asset management program, including roads and public and private utilities and a database, to facilitate efficient utility management/communication and implementation of cost-effective improvements, 2016; [www.michigan.gov/documents/snyder/21st\\_century\\_](http://www.michigan.gov/documents/snyder/21st_century_)

[infrastructure\\_commission\\_final\\_report\\_1\\_544276\\_7.pdf](http://www.michigan.gov/documents/snyder/21st_century_infrastructure_commission_final_report_1_544276_7.pdf).

- Follow the Michigan Infrastructure Council (MIC), Water Asset Management Council (WAMC), and Transportation Asset Management Council (TAMC) at [www.michigan.gov/mic](http://www.michigan.gov/mic).
- *Regional Infrastructure Pilot Program*, April 2018; addressed "roads, bridges, water, sewer, and waste disposal, pipelines, and electric, internet, and telecom services; report includes recommendations and lessons learned; [www.michigan.gov/documents/snyder/asset\\_management\\_report\\_621264\\_7.pdf](http://www.michigan.gov/documents/snyder/asset_management_report_621264_7.pdf).
- Pilot Drinking Water Grant Program allocated \$9.5 million to 18 eighteen communities for lead service line related asset management program work, including mapping, record and field inventory/investigation, and lead service line replacement.

In the ever-changing political arena, track pertinent legislation via <https://mi-water.site-ym.com/page/legreg> and search for/review House and Senate bills via [www.legislature.mi.gov](http://www.legislature.mi.gov). Several of the bills that 'died in committee' last year, including stormwater utilities and infrastructure funding, are likely to be reintroduced via the current legislature.

The asset management 'culture' is here to stay. As you participate in a new asset management program, or continue to maintain a program already in progress, we urge you to reach out to your peers, to stay connected – and to be knowledgeable, my friends!

If you would like more information on the joint MWEA/MI-AWWA AIM Committee, please contact the Committee Secretary Maureen Wegener ([maureen.wegener@c2ae.com](mailto:maureen.wegener@c2ae.com)) or Co-Chairs Deann Falkowski ([defalkowski@ftch.com](mailto:defalkowski@ftch.com)) and Lindsey Kerkez ([lindsey.kerkez@ohm-advisors.com](mailto:lindsey.kerkez@ohm-advisors.com)). 💧

## COMMUNICATIONS COUNCIL 2019 WORK PLAN

The Communications Council continues to make strides in its efforts to position the Michigan Section as the go-to authority on water quality issues in Michigan. As a part of these efforts, the Council's 2019 work plan was finalized and the media outreach strategy developed with the Section's Public Relation Counsel, Lezotte Miller, has been updated. Already, an OpEd urging Governor Gretchen Whitmer to focus attention and funding on water infrastructure has been published in *Bridge Magazine*.

In support of the Section's media relations efforts, and to provide additional value to members, the Council has shared a *Media Spokesperson Training Guide* on the Communications Page of the MI-AWWA website. The guide provides helpful tips on working effectively with reporters, gives 'Dos and Don'ts' for interviews, and helpful hints for handling crisis interviews. Several of the tips will be included in each issue of *Michigan Water Works News* over the course of the year, as well as

once a month in the weekly MI-AWWA email update.

Social media efforts have also increased over the course of the last quarter, with Council Member Aftab Borka taking on leadership. In addition to posting interesting and relevant content to the Section's Facebook page, he is also creating short videos promoting the highly trained and skilled professionals who work in Michigan's water sector. Check out the MI-AWWA Facebook page, @MIAWWA. 💧

## EDUCATION AND TRAINING COUNCIL UPDATE

The ETC is planning another go-around of the plankton and algae course. This summer, it is back in Muskegon at Grand Valley University's Aquatic Research Institute. Every surface water treatment plant should have at least one operator competent in identifying and counting plankton and algae.

We have launched a course specifically for operators that fluoridate. Various instructors will show ways to avoid overfeeding, underfeeding, and analytical testing. The course materials have been provided by the Center of Disease Control. It is a one-day course and will be held in Mt. Pleasant.

The Section Water Academy classes are continuing to develop as you read this. Expect greater training opportunities from the Section in the future!

Have any ideas for training? Webinars? Email me at [gary.wozniak@lbwl.com](mailto:gary.wozniak@lbwl.com) and we can discuss it at the next Council meeting. 💧

## MEMBERSHIP COUNCIL UPDATE

We are an organization of almost 1,700 members with only four paid staff.

That means a lot of the work is done by volunteers. For many years, the idea of having a volunteer coordinator has been brought up, and last year MI-AWWA had Chris Willemin take on this role. Chris has hit the ground running by creating volunteer orientations and compiling lists of all the Councils, committees, and task forces members and their main purposes. She has created a four-part volunteer program that consists of

Recruitment, Connecting, Orientation, and Recognition.

**Recruitment:** Chris has been working with members to help bring in new volunteers by surveying members' interests, reaching out to newer members who haven't been actively volunteering, etc.

**Connecting:** Chris reaches out to those who have expressed interest in volunteering and puts them in contact with the Council, committee, task force, or other group that fits their interests.

**Orientation:** Three times a year, Chris hosts a new volunteer orientation for volunteers, Council/committee chairs, and/or new board members. There is in-person training in August and the remaining are via webinar.

**Recognition:** MI-AWWA works to recognize our volunteers and thank them for all their hard work. I feel you get out of an organization what you put in. If you are interested in volunteering, feel free to contact Chris Willemin ([cwillemin@mi-water.org](mailto:cwillemin@mi-water.org)) and she will work with you to find your right fit. 💧



## SEEKING NOMINATIONS: MICHIGAN SECTION AWARDS



Every day, professionals across the State show up and dedicate their time, energy, and expertise to producing and providing safe drinking water – often without seeking or expecting recognition for what they do. As members of the drinking water community, we know that fulfilling our mission requires smart, dedicated, creative people in all sorts of roles. We also know we are surrounded by people and organizations going above and beyond for their customers, stakeholders, peers, and the public. Each year, the Michigan Section celebrates and recognizes these accomplishments.

The Section is seeking nominations for the following awards. Take a moment to consider those you have interacted with that exemplify the best characteristics of professionalism in drinking water. Then, take another moment to visit the Michigan Section website to fill out the brief online nomination form to submit a person or an organization for an award.

### **MI-AWWA Professional Excellence Awards NEW!**

With the addition of the 'Excellence in Water' award, the section looks to honor individuals, organizations, companies, project teams, or any other individual or group who made an exceptional

contribution to the water industry. This award recognizes noteworthy efforts in protecting public health, promoting safe drinking water, innovative or creative ideas, or outstanding leadership characteristics.

Up to four awards (two individuals and two groups/organizations) will be given each year. There are no criteria for years of service.

### **Young Professional of the Year**

The Michigan Section of AWWA Young Professional of the Year Award recognizes the contributions of young members, whose service and achievements are exceptional for their years of experience. The award is given annually to one member of the organization who has demonstrated an active commitment to the organization and the profession as a whole.

### **Raymond J. Faust Award**

The award recognizes one or more individuals for outstanding personal service in the water supply field. The award commemorates Raymond J. Faust for his contributions to safe public health engineering practices, his advancement of sound water supplies, and his dedication to building and promoting the waterworks industry of high esteem.

### **Chuck Van Der Kolk Volunteer of the Year Award**

The award would recognize an individual for the volunteer contributions to the Section through one or more of the following: interaction with a variety of groups (staff, councils, etc), providing long term exceptional service to the Section, performed a single action that has a large impact on the Section, or advanced the Section's mission through talent and service.

### **Michigan Water Industry Hall of Fame**

Established in 2013 by the Michigan Section, American Water Works Association (MI-AWWA), the purpose of the Michigan Water Industry Hall of Fame is to perpetuate the memory of those drinking water heroes who have made the most significant contributions to the field of public water supply in the state of Michigan.

### **Richard Husby Public Awareness Award**

This award recognizes a Michigan water utility, organization, and/or individual for significant accomplishments in promoting awareness and understanding of the water supply issues among the general public, through the development and implementation of public education activities.

### Research and Treatment Practices Award

The purpose of the Research and Treatment Practices Award is to acknowledge outstanding research and technical practices, share research and technical practice findings among utilities, and encourage new research.

### AWWA LEVEL AWARDS

#### Operator Meritorious Service Award

The Operator Meritorious Service Award recognizes individuals for special performance in one or more of the following areas:

1. Continuous compliance with public health standards in finished water.
2. Consistent and outstanding contribution to plant maintenance, thereby prolonging the useful life of equipment.
3. The development of new and/or modified equipment or significant process modifications to provide for a more efficient or effective treatment.

4. Special efforts in the training of treatment plant operators.
5. Special acts, not directly related to water treatment, but which demonstrate dedication to the public beyond the normal operating responsibilities.
6. Consistent and outstanding contribution to operation and/or maintenance of distribution lines, pump stations, and reservoirs.

#### George Warren Fuller Award

The George Warren Fuller Awards are presented annually by the American Water Works Association to the Sections' respective selected members for their distinguished service to the water supply field in commemoration of the sound engineering skill, the brilliant diplomatic talent, and the constructive leadership that characterized the life of George Warren Fuller.

### Exemplary Source Water Protection Award

The AWWA Exemplary Source Water Protection Program Award recognizes a public water system that has developed and implemented model source water protection programs. The drinking water supply sources must be associated with a water system or authority that is regulated by a federal/state/province/tribe government agency. The award applies to systems using surface water and/or groundwater as their source.

#### Wendell R. LaDue Safety Award

The award, established in honor of Wendell R. LaDue, is presented to recognize distinguished water utility safety programs.

For more information on any of these awards, visit the MI-AWWA website.

**Deadline for nomination submissions is June 1. **

## ADAPTING TO BEST SERVE THE MEMBERS

The Technical Network Council (TNC) was originally created during the Section's reorganization in 2014 as the 'Communities of Practice and Social Responsibility Council.' The primary goal was to develop these new Communities of Practice that would convene groups of members with similar interests to network both in person and using virtual tools to address 'hot topics' and informational needs.

The Council worked during 2015 and 2016 to try to use the Communities of Practice model, with the largest obstacles being the lack of a digital/virtual platform that members could use to share information. The social media site LinkedIn was also tried.

The Council then attempted to re-organize in the fall of 2016 by renaming the Council the 'Technical Networking Council,' with the goals

and objectives adjusted to provide technical networking opportunities for members through hosting events and providing support of committees. Several events were held in 2017 and 2018, with varying levels of attendance and engagement. In general, these events were successful. The main hurdles encountered were being able to effectively engage the right members and overlap with events initiated by other Councils.

After much discussion, it was decided the TNC should integrate its activities and members into existing activities and other Councils.

Committees within the TNC are now within different councils as indicated below. Members of TNC have joined one of the other Councils and the Section continues to create ways to engage members in networking, education, and meaningful volunteer opportunities.

A special thank you to the members of the Technical Networking Council for all their efforts and for their dedication to the mission of AWWA.

### Education & Training

- Lab Practices Committee (joint committee with MWEA)
- Asset and Infrastructure Management (AIM) Committee (joint committee with MWEA)
- Research and Treatment Practices (RTP) Committee
- Maintenance Committee (joint committee with MWEA)
- Water Efficiency and Conservation Committee (dormant)

### Conference & Recognition

- Safe Water in Ecuador

### Membership Council

- Young Professionals 

MEDIA TIPS

**MEDIA RELATIONSHIPS: BUILD TRUST AND CREDIBILITY**

Contrary to Hollywood stereotypes, most reporters are not predators waiting to eat your reputation alive. While they look for scoops, they're mostly respectful and are looking for honest answers and accurate information.

You gain their respect when you return phone calls with questions that may be uncomfortable, even if you don't have the information but can get it later. You gain their trust when you answer questions forthrightly and with accurate information.

Sometimes the media can learn things from you informally, information to be used later. Take a reporter to lunch. But make him or her pay for it. They're supposed to.

The full media training manual is available for members on the MI-AWWA website.

**Three Reasons a Reporter Wants to Talk to You:**

1. Reporters and editors don't have the time to thoroughly research issues or gather appropriate information. They rely on your expertise, especially on technical topics.
2. You have been helpful in the past answering questions, clarifying information and making the media outlet look knowledgeable to their readers or viewers. Be generous with your time and expertise.
3. You can help provide a local angle to a national story that impacts readers or viewers.

**Six Do's and Don'ts in a Media Interview**

1. Never play it by ear. Know your talking points cold.
2. Don't assume you can speak 'off the record.' Unless agreed to ahead of time by a reporter, everything you say can be repeated and reported.
3. Don't lose patience with the interviewer. No matter how negative the question, answer calmly and positively.
4. Don't exaggerate the facts. Be honest.
5. Don't ignore the question or filibuster with unrelated information. It's OK to restructure your answer to incorporate your message.
6. Don't repeat offensive or inaccurate language. Respond positively, focusing on your key message. 💧

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Brian D. Bodary Jr. 989-751-7624 Bbodary.kei@gmail.com	

## WELCOME NEW MEMBERS OF AWWA

Members who joined between Dec 1,  
2018, and Feb 28, 2019.

**Mark Balon**

**Mark Bell**, Burtchville Township D.P.W.-Water

**Jamie Cameron**

**Michael Carie**, Lansing Board of Water & Light  
City of Beaverton

**Jonathan Cooper**, Prein&Newhof

**Kenneth Dey**, Tittabawassee Township DPW

**Douglas Dunn**,  
Fishbeck, Thompson, Carr & Huber

**Jerry Evans**, Ypsilanti Community  
Utilities Authority

**Trista Gregorski**,  
Holland Board of Public Works

**Martin Hauck**, Village of Birch Run

**Scott Isler**, Iseler Demolition

**Matt Izzo**

**Thomas Keerl**, City of Harrisville

**Morgan Kelley**, Holland Board of Public Works

**Carol King**, Aquasight

**Jeffrey Koelsch**,  
Holland Board of Public Works

**Ben Lankheet**,  
Suez Water-City of Alpena WTP

**Rich Low**, Village of Edwardsburg  
Water Department

**Navid Mehram**, Great Lakes Water Authority

**Cary Midwood**, Byron-Gaines Utility Authority

**Chris Munson**

**Michael Osborn**, City of Jackson

**Robert Sabisch**, City of Beaverton

**Jacob Spedoske**,  
Lansing Board of Water & Light

**Piotr Szczepanski**, C2AE

**Chad Tyrakowski**, City of Dowagiac

**Christopher Vanpoppelen**,  
Great Lakes Water Authority

**Emily Wei-Deboer**,  
Lansing Board of Water and Light

**Eric Worm**, City of Reed City

**Lyle Wyskowski**,  
Michigan Department of Corrections 



**Water Loss Control Services**

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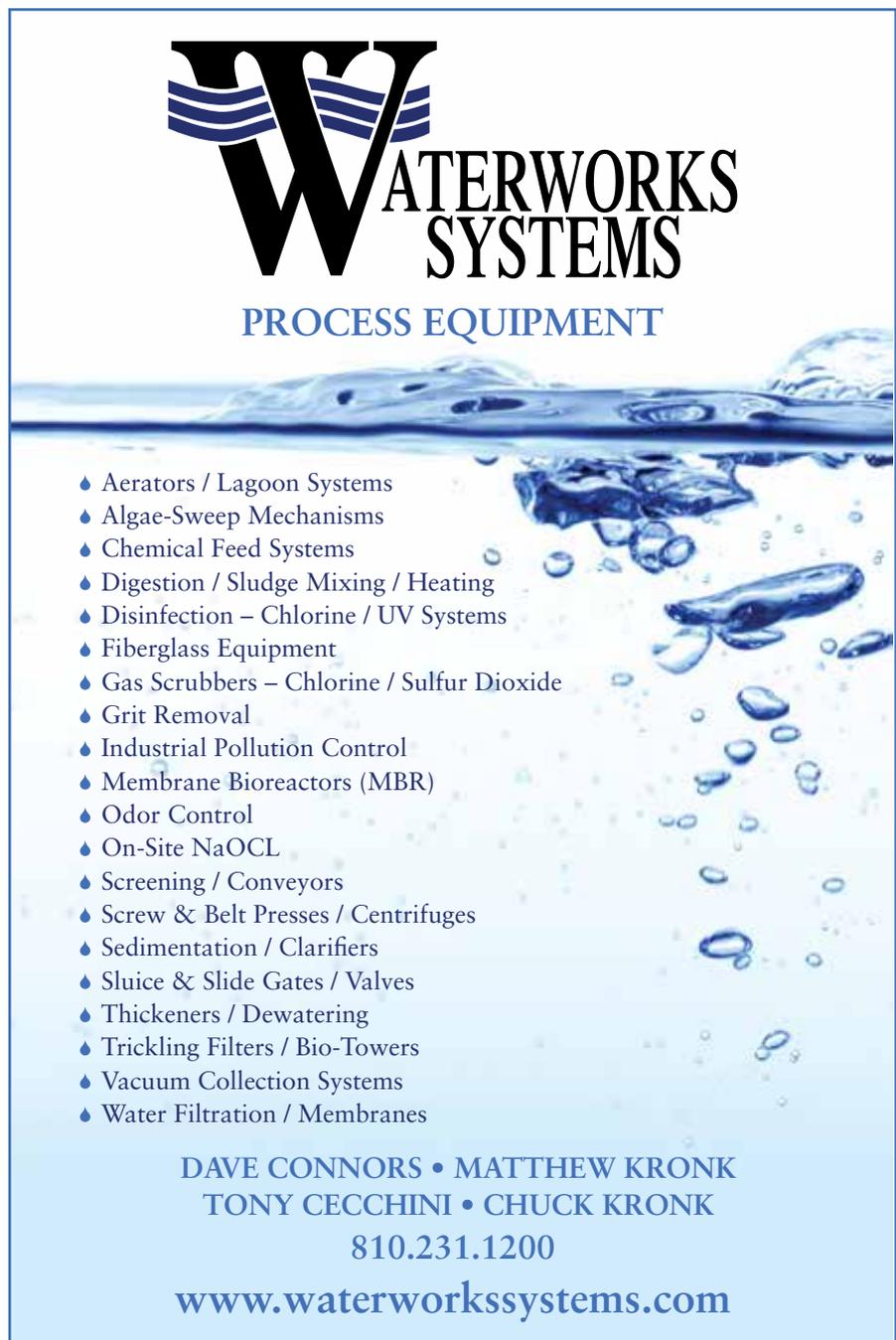
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- ◆ Fiberglass Equipment
- ◆ Gas Scrubbers – Chlorine / Sulfur Dioxide
- ◆ Grit Removal
- ◆ Industrial Pollution Control
- ◆ Membrane Bioreactors (MBR)
- ◆ Odor Control
- ◆ On-Site NaOCL
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# TRAINING VIDEO FOR OPERATOR CERTIFICATION EXAM APPLICATIONS

Staff in the Operator Training and Certification Program (OTCP) have been busy developing a new training video to assist operators in filling out exam applications. This video walks you through the exam application step-by-step and discusses the top five mistakes found when reviewing exam applications. The purpose of this video is to make the exam application process easier and limit the number of denials based on incomplete applications. You can find the new video on the OTCP website at [www.michigan.gov/deqoperatortraining](http://www.michigan.gov/deqoperatortraining). Good luck on completing your exam applications!

### Important Examination Dates:

EXAM	EXAM DATE	POSTMARK DEADLINE
F 1-2-3-4, D 1-2-3-4, S 1-2-3-4	May 1, 2019 November 6, 2019	March 1, 2019 September 6, 2019
F-5, D-5, S-5 (Paying by check)	May 1, 2019 November 6, 2019	March 1, 2019 September 6, 2019
F-5, D-5, S-5 (Paying by credit card)	May 1, 2019 November 6, 2019	April 1, 2019 October 6, 2019

For questions regarding operator training and certifications, please contact Supervisor

Koren Carpenter at 517-284-6857 or [carpenterk5@michigan.gov](mailto:carpenterk5@michigan.gov).

# 2019-2020 SOURCE WATER PROTECTION GRANT APPLICATIONS

The Department of Environmental Quality (DEQ) Drinking Water and Municipal Assistance Division (DWMAD) will begin accepting Source Water Protection (SWP) grant applications on May 1, 2019, for the next grant cycle. Information on how to obtain applications will be provided to all municipal systems on May 1, 2019.

SWP grants are available to Public Water Supply Systems (PWSSs) utilizing groundwater or surface water as a source. Michigan's SWP Program grants are a 50%

local match program to assist PWSSs in developing and implementing a SWP program. The goal is to protect PWSSs from potential sources of contamination. Protection is provided by identifying the area that contributes source water to the PWSS, identifying sources of contamination within that area, and developing methods to cooperatively manage the area and minimize any threat to the PWSS.

All completed applications and documentation must be postmarked

**no later than June 14, 2019**, or hand-delivered to the Gaylord Field Office, DEQ, DWMAD, 2100 West M32, Gaylord, MI, 49735, **no later than 5:00 p.m. on June 14, 2019**. Grants will be announced after applications have been processed.

If you have any questions regarding the SWP program or grant, please contact Jason Berndt, Source Water Unit, at 989-705-3420; [berndtj1@michigan.gov](mailto:berndtj1@michigan.gov); or DEQ, DWMAD, Gaylord Field Office, 2100 West M-32, Gaylord, MI.

# EDWARD DUNBAR RICH AWARD CALL FOR NOMINATIONS



Every year the Department of Environmental Quality (DEQ), along with AWWA, presents the Edward Dunbar Rich Service Award at the Michigan Section, AWWA Annual Conference. This award is presented to

water utility personnel who have served meritoriously and faithfully for 25 years in the waterworks industry in Michigan.

We honor the memory of Edward Dunbar Rich, an author, Professor of Civil Engineering, Major in the Sanitary Corps, and State Sanitary Engineer of the Michigan Board of Health, by recognizing

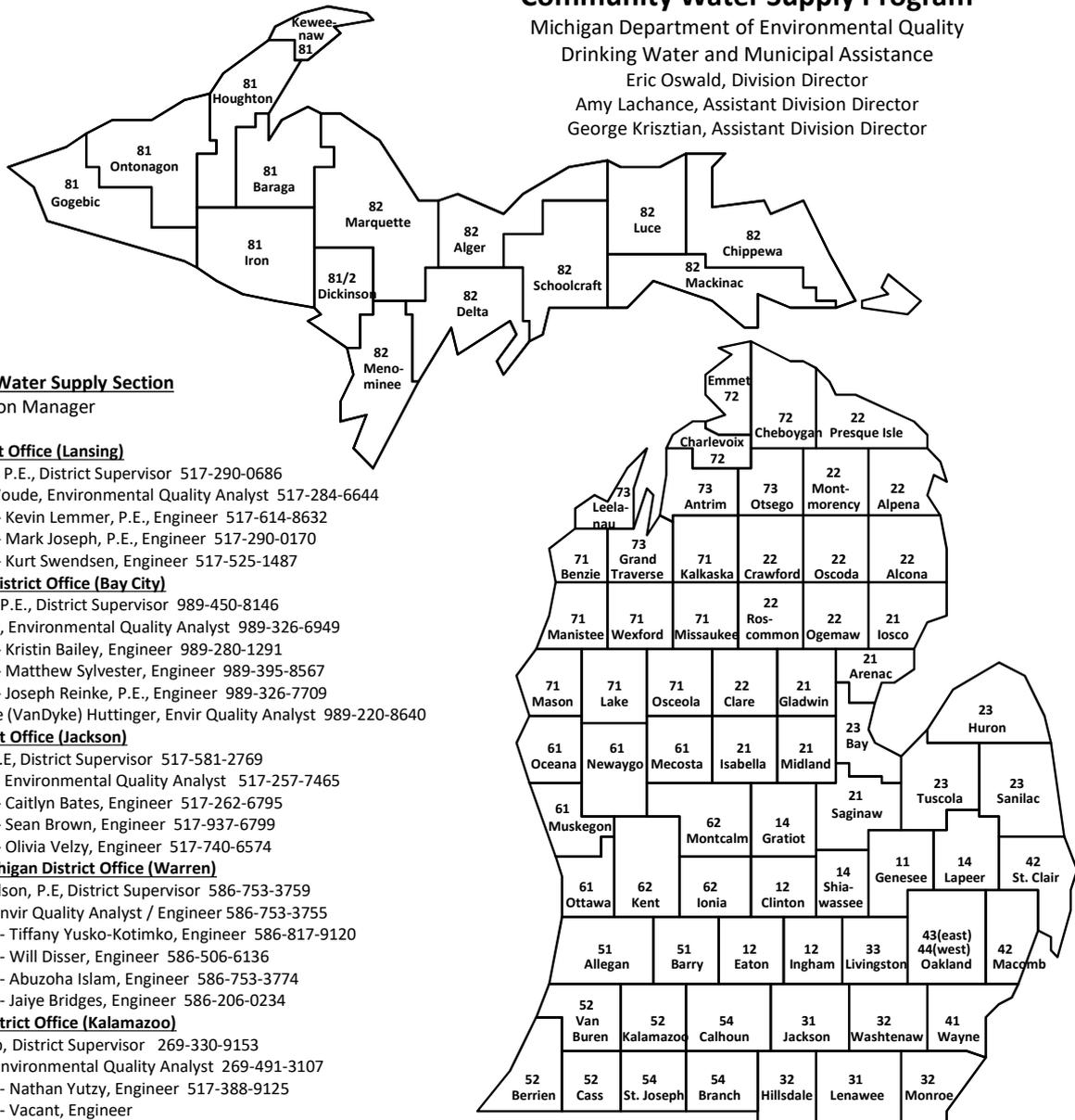
water utility personnel for their dedication to the industry.

Rich Award applications are now being accepted, with an application deadline of **July 15, 2019**. Please visit [www.michigan.gov/drinkingwater](http://www.michigan.gov/drinkingwater) and click on 'Community Water Supply Home Page' to find information on the Rich Award and the nomination form.

2/8/2019

## Community Water Supply Program

Michigan Department of Environmental Quality  
 Drinking Water and Municipal Assistance  
 Eric Oswald, Division Director  
 Amy Lachance, Assistant Division Director  
 George Krisztian, Assistant Division Director



### Community Water Supply Section

Vacant, Section Manager

#### Lansing District Office (Lansing)

Bethel Skinker, P.E., District Supervisor 517-290-0686  
 Ryan VanDerWoude, Environmental Quality Analyst 517-284-6644  
 District 11 - Kevin Lemmer, P.E., Engineer 517-614-8632  
 District 12 - Mark Joseph, P.E., Engineer 517-290-0170  
 District 14 - Kurt Swendsen, Engineer 517-525-1487

#### Saginaw Bay District Office (Bay City)

Daryl Gotham, P.E., District Supervisor 989-450-8146  
 Rebecca Kaiser, Environmental Quality Analyst 989-326-6949  
 District 21 - Kristin Bailey, Engineer 989-280-1291  
 District 22 - Matthew Sylvester, Engineer 989-395-8567  
 District 23 - Joseph Reinke, P.E., Engineer 989-326-7709  
 MHC\* - Sue (VanDyke) Huttinger, Envir Quality Analyst 989-220-8640

#### Jackson District Office (Jackson)

Pat Brennan, P.E., District Supervisor 517-581-2769  
 Taryn Johnson, Environmental Quality Analyst 517-257-7465  
 District 31 - Caitlyn Bates, Engineer 517-262-6795  
 District 32 - Sean Brown, Engineer 517-937-6799  
 District 33 - Olivia Velzy, Engineer 517-740-6574

#### Southeast Michigan District Office (Warren)

Kristina Donaldson, P.E., District Supervisor 586-753-3759  
 Joshua Aden, Envir Quality Analyst / Engineer 586-753-3755  
 District 41 - Tiffany Yusko-Kotimko, Engineer 586-817-9120  
 District 42 - Will Dissler, Engineer 586-506-6136  
 District 43 - Abuzoha Islam, Engineer 586-753-3774  
 District 44 - Jaiye Bridges, Engineer 586-206-0234

#### Kalamazoo District Office (Kalamazoo)

Heather Bishop, District Supervisor 269-330-9153  
 Stacy Wilson, Environmental Quality Analyst 269-491-3107  
 District 51 - Nathan Yutzy, Engineer 517-388-9125  
 District 52 - Vacant, Engineer  
 District 54 - Katelyn Reyes, Engineer 269-216-1691

#### Grand Rapids District Office (Grand Rapids)

Luke Dehtiar, P.E., District Supervisor 616-307-0322  
 Jeremy Klein, Environmental Quality Analyst 616-250-1053  
 District 61 - Coulton Pierce, Engineer 616-265-9129  
 District 62 - Wood Chooi, P.E., Engineer 616-356-0228  
 MHC\* - Brian Esparsa, Envir Quality Analyst 616-307-0006

#### Cadillac District Office (Cadillac)

Brian Thurston, P.E., District Supervisor 231-590-3430  
 Amy Vail, Environmental Quality Analyst 231-876-4481  
 District 71 - Scott Conradson, Engineer 231-876-4461  
 District 72 - Bob Weir, Engineer 231-590-2050  
 District 73 - Jamie Wade, P.E., Engineer 231-878-8592

#### Upper Peninsula District Office (Marquette)

Chuck Thomas, District Supervisor 906-228-4514  
 Lori Schultz, Environmental Quality Analyst 906-228-3902  
 District 81 - Tom Flaminio, P.E., Engineer 906-228-3904  
 District 82 - Amy Douville, Engineer 906-228-3905

### After Hours Emergencies: 1-800-292-4706

**Community Water Website:** [www.michigan.gov/deq](http://www.michigan.gov/deq)

Click on Water > Drinking Water > Community Water Supply

\* MHC = Manufactured Housing Communities

#### Technical Support Unit (Lansing)

Kris Philip, Unit Supervisor 517-284-6518  
 Deborah Ostrander, Environmental Quality Specialist 269-491-4536  
 Holly Gohlke, Environmental Quality Specialist 989-705-3422  
 Jeni Bolt, Environmental Quality Specialist 517-284-6515  
 Krista Robinson, Environmental Quality Analyst 517-599-8655  
 John Karnes, Environmental Quality Analyst 517-284-6570  
 Brittany (Tack) Earles, Environmental Quality Analyst 517-284-6583  
 Heather Jackson, Environmental Quality Analyst 517-284-5413  
 Ariel Zoldan, Environmental Quality Analyst 517-599-8684

#### Operator Training & Certification

Koren Carpenter, Assistant Unit Supervisor 517-284-6857  
 Scott Schmidt, Environmental Quality Analyst 517-284-5431  
 Brianna Moore, Environmental Quality Analyst 517-284-5426  
 John Koenigsnecht, Environmental Tech 517-284-5430

#### Engineering Unit (Various)

Michael Bolf, P.E., Unit Supervisor 906-630-4107  
 Vacant, P.E., Water Treatment Specialist  
 Doug Pascoe, P.E., Distribution System Specialist 906-228-3903  
 Stephanie Johnson, P.E., Surface Water Specialist (east) 586-506-6137  
 Robert London, P.E., Surface Water Specialist (north) 989-450-7834  
 Ernie Sarkipato, P.E., Surface Water Specialist (west) 616-307-0261  
 Shannon Henderson, Surface Water Engineer 517-539-1687  
 Brandon Onan, P.E., Corrosion Control Engineer 616-307-6736



# MICHIGAN WATER ACADEMY® UPDATE

Introductory level classes are scheduled. Check out the training calendar on page 46 or online for details about registering. (Please be aware that not all Academy classes are approved for continuing education credits for water operators.)

The remaining classes continue to develop for the Academy, with the plan to do a full launch of classes in 2020. In the meantime, if you're interested in getting involved in the development or in becoming an instructor, please email Bonnifer Ballard at [bballard@mi-water.org](mailto:bballard@mi-water.org). 



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Dry	Paint	Ground
ROV	Insulation	Relocation
In-Service Cleaning		Erection
		Dismantles

*If you are interested in having us as your partner, feel free to contact one of our department representatives below*

**NEW TANKS** – Rick DiZinno  
(270) 826-9000 ext. 2601

**EXISTING TANKS** – Patrick Heltsley  
(270) 826-9000 ext. 4601

 **WWW.PTTG.COM**

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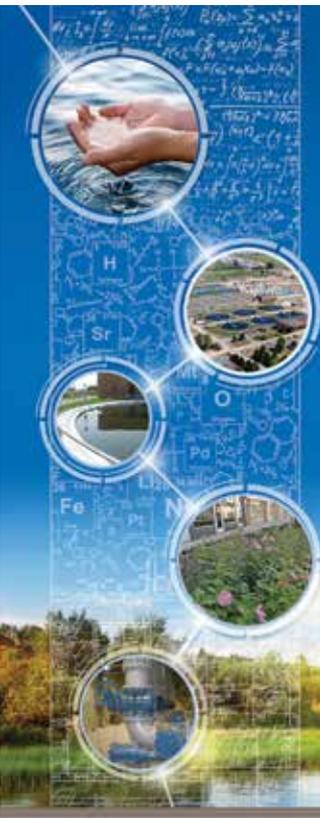
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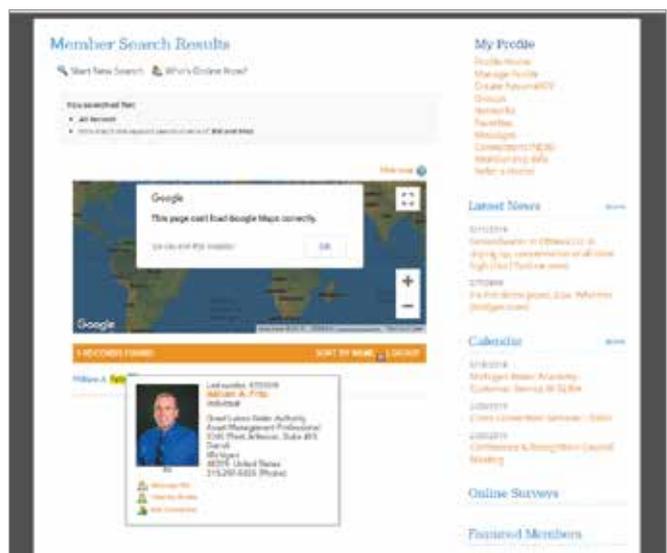
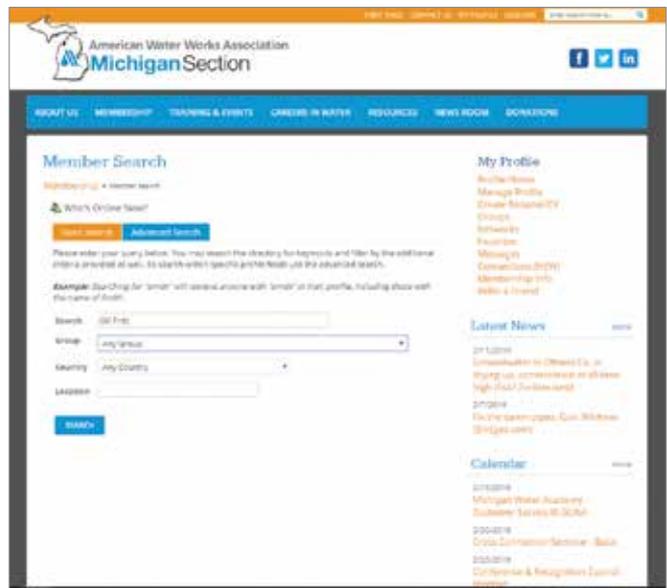
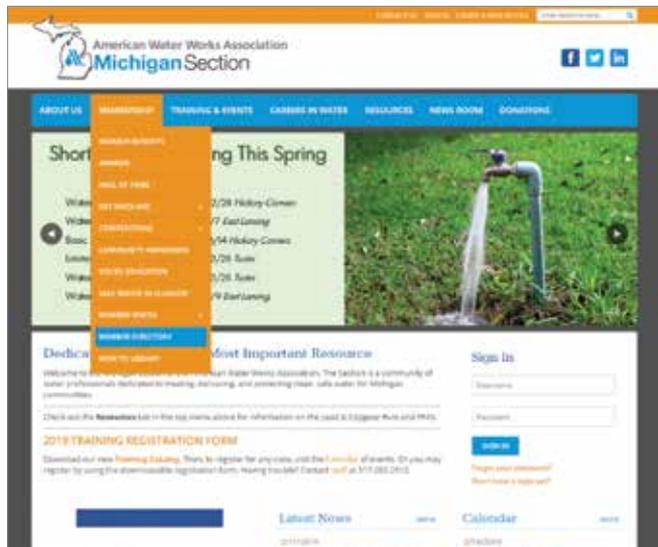
**Port Huron** 810.956.9300



[tetratech.com](http://tetratech.com)

# MI-AWWA ONLINE

The Michigan Section has nearly 1,700 members. You can find members through the member directory published each spring. You can also find members throughout the year by searching the Section's website. You must login for the search option.





### April 2019

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1	2	3 SDWA Seminar with RCAP <i>Mt. Pleasant</i>	4	5
8	9 Spring Regional Meeting <i>Livonia</i> Spring Regional Meeting <i>Kalamazoo</i>	10	11	12
15	16 U.P. Water Works Institute <i>Harris</i>	17	18	19
22	23 Spring Regional Meeting <i>Mt. Pleasant</i>	24 Spring Regional Meeting <i>Gaylord</i>	25	26
29 Groundwater Treatment Workshop <i>Grandville</i>	30 Groundwater Treatment Workshop <i>Dundee</i>			

### May 2019

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		1	2	3
6	7	8	9	10
	Short Course in Water Bacteriology <i>East Lansing</i>			
13	14	15	16 Fluoridation Training <i>Mt. Pleasant</i> Lab Practices Seminar (MWEA) <i>Lansing</i>	17
20	21	22	23	24
27	28	29 Michigan Field Days with RCAP <i>Cadillac</i>	30	31

### June 2019

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
3	4	5	6	7
10	11 AWWA ACE <i>Denver, CO</i> (Starts June 9)	12	13	14
17	18	19	20	21
24	25	26	27	28

### July 2019

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
	Plankton & Algae Short Course <i>Muskegon</i>			
29	30	31		

# MI-AWWA 2019 TRAINING REGISTRATION FORM

Course Date \_\_\_\_\_ Course Name \_\_\_\_\_ Course Location \_\_\_\_\_

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone \_\_\_\_\_ Operator ID \_\_\_\_\_

\*Email \_\_\_\_\_ AWWA Member Number \_\_\_\_\_

*\* Pre-event information is only sent via email.*

*(Required to receive member discount)*

Please check this box if you would like to receive exhibit or sponsoring company materials via email.

### Registration and Cancellation Policy

*You must login or include your member number to receive your member discount. Refunds will not be issued for individuals registering for an event at the non-member rate who would have otherwise been eligible for the member discount. Refunds will not be issued for individuals registering for an event at the full rate who would have otherwise been eligible for a promotional discount. Registration substitutions within the same organization are allowed; however, registration rates will be calculated according to AWWA membership status. Written cancellations received at least seven days prior to the start of the event will be eligible for a refund less a \$35 processing fee. Cancellations received less than seven days from the start of the event will receive no refund. Attendance at, or participation in MI-AWWA Trainings, Conferences, Social Events and other Section activities constitutes consent by the registrant to permit American Water Works Association – Michigan Section to use and distribute both now and in the future the attendee's image and/or voice in photographs, videos, and audiotapes in print or electronically of such events and activities for any purpose consistent with the mission of the Section without limit or liability.*

**PAYMENT\***  \$ \_\_\_\_\_ **member**  \$ \_\_\_\_\_ **non-member** **Payment by:**  Check Number \_\_\_\_\_

Purchase Order \_\_\_\_\_  VISA  MasterCard  AmEx  Discover

*\* The registration rate current at the time of registration (transmitted or post-marked) will apply. A \$35 late fee will be added for registrations received less than seven days prior to the training event.*

Card # \_\_\_\_\_

Exp Date \_\_\_\_\_ CVV \_\_\_\_\_

Name on Card \_\_\_\_\_

Signature \_\_\_\_\_

Billing Address same as registrant

Billing Address \_\_\_\_\_

Billing City \_\_\_\_\_ Billing State \_\_\_\_\_ Billing Zip Code \_\_\_\_\_

Billing Phone \_\_\_\_\_ Billing Email Address\* \_\_\_\_\_

**Return completed form with payment to:**

**MAIL** MI-AWWA Payment Processing • Dept 6091 • PO Box 30516 • Lansing, MI 48909 | **FAX** to 517-292-2912

**OR REGISTER ONLINE AT [WWW.MI-WATER.ORG](http://WWW.MI-WATER.ORG)**



# 2019 Buyers' Guide |

## Our MI-AWWA Buyers' Guide consists of two sections:

1. A categorical listing of products and services, including a list of the companies that provide them.
2. An alphabetical listing of the companies appearing in the first section. This listing includes name, contact info, website and more.

## CATEGORIES

### Acoustic Pipeline Condition Assessment

M.E. Simpson Co., Inc.

### Activated Carbon

CEI-Carbon Enterprises, Inc.

### Asset Management

M.E. Simpson Co., Inc.

### Cellular AMI

Badger Meter

### Chemical Processing and Feed Systems

Evoqua Water Technologies  
Kennedy Industries  
Kerr Pump & Supply  
Water Solutions Unlimited, Inc.

### Chemical Tank Scales and Emergency Shut Off Systems

Force Flow/Halogen

### Coatings, Linings, and Corrosion Control

Evoqua Water Technologies  
Kennedy Industries  
SUEZ Advanced Solutions  
Water Solutions Unlimited, Inc.

### Construction Castings

Kennedy Industries  
Michigan Pipe & Valve

### Contractors

Watertap, Inc.

### CSO/SSO Controls, Water Resources, Distribution, and Collection

AECOM  
Arcadis  
Fishbeck, Thompson,  
Carr & Huber, Inc.  
Greeley and Hansen  
Hubbell, Roth & Clark, Inc.  
Kennedy Industries



# CATEGORIES

## Distributor

HYMAX by Krausz USA

## Electrical, Instrumentation/ Controls/Generators

Cla-Val Company  
Fishbeck, Thompson,  
Carr & Huber, Inc.  
KEI Controls LLC/  
KEI Industrial Sales  
Kennedy Industries  
Kerr Pump & Supply  
Peerless Midwest, Inc.  
Tetra Tech  
UIS SCADA  
Wade Trim  
West Michigan Instrumentation

## Engineers/Consultants

AECOM  
Arcadis  
CDM Smith Michigan, Inc.  
Dixon Engineering, Inc.  
Fishbeck, Thompson,  
Carr & Huber, Inc.  
Fleis & Vandenbrink  
Greeley and Hansen  
Hubbell, Roth & Clark, Inc.  
Jones & Henry Engineers, Ltd.  
KEI Controls LLC/  
KEI Industrial Sales  
Moore & Bruggink, Inc.  
Prein & Newhof  
Wade Trim  
Williams & Works

## Filter Media

CEI-Carbon Enterprises, Inc.  
Haviland Products  
Kennedy Industries

## Filtration

Arcadis  
CEI-Carbon Enterprises, Inc.  
Evoqua Water Technologies  
Peerless Midwest, Inc.  
Kennedy Industries  
Waterworks Systems  
& Equipment, Inc.

## Financial Services

Badger Meter

## FRP Doors and Grating

JGM Valve Corporation

## Geographic Information Systems

AECOM  
CDM Smith Michigan, Inc.  
Fleis & Vandenbrink  
Greeley and Hansen  
Moore & Bruggink, Inc.  
Prein & Newhof  
Williams & Works

## Large Diameter Leak Detection

M.E. Simpson Co., Inc.

## Leak Detection Services/Water Audits

M.E. Simpson Co., Inc.

## Line Stops

Watertap, Inc.

## Live Taps

Watertap, Inc.

## Manhole Covers and Frames

EJ  
Michigan Pipe & Valve

## Manhole Rehabilitation

Core & Main LP  
Jones & Henry Engineers, Ltd.

## Master/Production and Large Flow Meter Testing

M.E. Simpson Co., Inc.

## Meters/Meter Testing

Badger Meter  
Michigan Pipe & Valve  
SLC Meter, LLC  
UIS SCADA  
United Systems & Software, Inc.

## Meter Reading Systems

Badger Meter  
KEI Controls LLC/  
KEI Industrial Sales  
SLC Meter, LLC  
SUEZ Advanced Solutions  
United Systems & Software, Inc.

## Odor Control Solutions

CEI-Carbon Enterprises, Inc.  
Evoqua Water Technologies  
Haviland Products  
Jones & Henry Engineers, Ltd.  
Kennedy Industries  
PVS Technologies, Inc.  
Water Solutions Unlimited, Inc.  
Waterworks Systems  
& Equipment, Inc.  
Operation Services  
Fleis & Vandenbrink

## Pipe and Appurtenances

AMERICAN Ductile Iron Pipe  
Core & Main LP  
Michigan Pipe & Valve  
SLC Meter, LLC

## Process Mechanical

AECOM  
CDM Smith Michigan, Inc.  
Kennedy Industries  
Moore & Bruggink, Inc.

## Pumps/Pump Systems

Arcadis  
Cla-Val Company  
Core & Main LP  
Detroit Pump  
Fishbeck, Thompson,  
Carr & Huber, Inc.  
Hubbell, Roth & Clark, Inc.  
JGM Valve Corporation  
Kennedy Industries  
Kerr Pump & Supply  
Peerless Midwest, Inc.  
SUEZ Advanced Solutions  
Tetra Tech  
Wade Trim

## Residuals/Waste Management

Greeley and Hansen  
Waterworks Systems  
& Equipment, Inc.  
Safety Products  
Force Flow/Halogen

## SCADA/Asset Management

UIS SCADA

## Storage Tanks/ Reservoir Systems

Hubbell, Roth & Clark, Inc.  
Kennedy Industries  
Pittsburg Tank & Tower  
Maintenance Co.  
SUEZ Advanced Solutions

## Survey

Fleis & Vandenbrink  
Moore & Bruggink, Inc.  
Prein & Newhof  
Williams & Works

## Tank Maintenance and Inspections

Pittsburg Tank & Tower  
Maintenance Co.

## Trenchless Pipe Rehabilitation

Granite Inliner/LiquiForce

## Utility Billing and City Management

United Systems & Software, Inc.

## Vacuum Pumps and Blowers

Kerr Pump & Supply

## Valve Insertions

Watertap, Inc.

## Valves

Cla-Val Company  
Core & Main LP  
Detroit Pump  
JGM Valve Corporation  
Kennedy Industries  
Michigan Pipe & Valve

## Water Distribution Supplies

SLC Meter, LLC

## Water Treatment Chemicals

Evoqua Water Technologies  
Force Flow/Halogen  
Haviland Products  
PVS Technologies, Inc.  
Water Solutions Unlimited, Inc.

## Water/Wastewater Treatment Systems

AECOM  
Arcadis  
CDM Smith Michigan, Inc.  
CEI-Carbon Enterprises, Inc.  
Cla-Val Company  
Core & Main LP  
Evoqua Water Technologies  
Fishbeck, Thompson,  
Carr & Huber, Inc.  
Fleis & Vandenbrink  
Franklin Miller, Inc.  
Greeley and Hansen  
Hubbell, Roth & Clark, Inc.  
Jones & Henry Engineers, Ltd.  
Kennedy Industries  
Kerr Pump & Supply  
Moore & Bruggink, Inc.  
Peerless Midwest, Inc.  
Prein & Newhof  
Tetra Tech  
Wade Trim  
Water Solutions Unlimited, Inc.  
Waterworks Systems  
& Equipment, Inc.

## Well Services

SUEZ Advanced Solutions



## LISTINGS

## A

**AECOM**

Troy Naperala  
10850 Traverse Highway,  
Suite 3365  
Traverse City, MI 49684-1363  
231-932-7592  
troy.naperala@aecom.com  
[www.aecom.com](http://www.aecom.com)

**AMERICAN**  
DUCTILE IRON PIPE

**American Ductile Iron Pipe**  
PO Box 2727  
Birmingham, AL 35202  
205-307-2969  
jordanbyrd@american-usa.com  
[www.american-usa.com](http://www.american-usa.com)

**ARCADIS**

**Arcadis of Michigan, LLC**  
Tom Armstrong  
28550 Cabot Drive, Suite 500  
Novi, MI 48377  
734-807-2040  
tom.armstrong@arcadis.com  
[www.arcadis.com](http://www.arcadis.com)

## B

**BadgerMeter, Inc.**

**Badger Meter**  
Mark Wright  
4545 W. Brown Deer Road  
Milwaukee, WI 53223  
800-876-3837  
mwright@badgermeter.com  
[www.badgermeter.com](http://www.badgermeter.com)

## C

**CDM Smith Michigan, Inc.**

Mark TenBroek  
645 Griswold Street, Suite 3770  
Detroit, MI 48226  
313-963-1313  
tenbroekmj@cdmsmith.com  
[www.cdmsmith.com](http://www.cdmsmith.com)

**CEI-Carbon Enterprises, Inc.**

28205 Scippo Creek Road  
Circleville, OH 43113  
O: 800-344-5770  
F: 888-204-9656  
rick@ceifiltration.com  
[www.ceifiltration.com](http://www.ceifiltration.com)

**Cla-Val Company**

Jim Graber  
2648 Medina Road  
Medina, OH 44256  
440-523-0496  
jgrabr@cla-val.com  
[www.cla-val.com](http://www.cla-val.com)

**Core & Main LP**

Tom Fisher  
4901 Dewitt Road  
Canton, MI 48188  
734-398-5950  
tom.fisher@coreandmain.com  
[www.coreandmain.com](http://www.coreandmain.com)

## D

**Detroit Pump**

Gary Maley  
23751 Amber Avenue  
Warren, MI 48089  
248-544-4242  
pump.sales@detroitpump.com  
[www.detroitpump.com](http://www.detroitpump.com)

**Dixon Engineering, Inc.**

Eric Binkowski, Project Manager  
Tom Rounds, Project Manager  
1104 Third Avenue  
Lake Odessa, MI 48849  
616-374-3221  
eric.binkowski@dixonengineering.net  
dixonengineering.net  
tom.rounds@dixonengineering.net  
[www.dixonengineering.net](http://www.dixonengineering.net)

## E

**EJ**

Caroline VanHorn  
301 Spring Street  
East Jordan, MI 49727  
231-536-4764  
caroline.vanhorn@ejco.com  
[www.ejco.com](http://www.ejco.com)

**EVOQUA**  
WATER TECHNOLOGIES

**Evoqua Water Technologies**  
Mike Stock  
210 Sixth Avenue, Suite 3200  
Pittsburgh, PA 15222  
michael.stock@evoqua.com  
[www.evoqua.com](http://www.evoqua.com)

## F

**Fishbeck, Thompson, Carr & Huber, Inc.**

Christopher Frilen  
1515 Arboretum Drive, SE  
Grand Rapids, MI 49546  
616-464-3715  
crfrilen@ftch.com  
[www.ftch.com](http://www.ftch.com)

**Fleis & Vandenbrink**

Paul Galdes  
2960 Lucerne Drive SE  
Grand Rapids, MI 49546  
616-977-1000  
pgaldes@fveng.com  
[www.fveng.com](http://www.fveng.com)

**Force Flow/Halogen**

2430 Stanwell Drive  
Concord, CA 94520  
925-686-6700  
info@forceflow.com  
[www.forceflowscales.com](http://www.forceflowscales.com)

**Franklin Miller, Inc.**

60 Okner Parkway  
Livingston, NJ 07039  
973-535-9200  
info@franklinmiller.com  
[www.franklinmiller.com](http://www.franklinmiller.com)

## G

**Granite Inliner/LiquiForce**

John Thompson  
28529 Goddard Road, Suite 106  
Romulus, MI 48174  
734-231-6691  
john.thompson@gcinc.com  
[www.inliner.com](http://www.inliner.com)

**Greeley and Hansen**

Deborah Veal  
1001 Woodward Avenue,  
Suite 850  
Detroit, MI 48226  
dveal@greeley-hansen.com  
[www.greeley-hansen.com](http://www.greeley-hansen.com)

## H

**Haviland Products**

Laura Jakel or  
Darlene Devereaux  
421 Ann Street NW  
Grand Rapids, MI 49504  
616-540-4859 or 517-719-1140  
water@havilandusa.com  
[www.havilandusa.com](http://www.havilandusa.com)

**Hubbell, Roth & Clark, Inc.**

James F. Burton, PE  
PO Box 824  
Bloomfield Hills, MI 48303-0824  
248-454-6363  
jburton@hrc-engr.com  
[www.hrc-engr.com](http://www.hrc-engr.com)



## LISTINGS

**HYMAX by Krausz USA**

Mary Edwards  
331 SW 57th Avenue  
Ocala, FL 34474  
mary.edwards@krauszusa.com  
[www.krauszusa.com](http://www.krauszusa.com)

## J

**JGM Valve Corporation**

Joey Maruskin  
1155 Welch Road, Suite D  
Commerce, MI 48390  
248-926-6200  
contact@jgmvalve.com  
[www.jgmvalve.com](http://www.jgmvalve.com)

**Jones & Henry Engineers, Ltd.**

Paul S. Romano, P.E.  
4791 Campus Drive  
Kalamazoo, MI 49008  
269-353-9650  
promano@jheng.com  
[www.jheng.com](http://www.jheng.com)

## K

**KEI Controls LLC/  
KEI Industrial Sales**

2610 Ringle Road  
Vassar, MI 48768  
bbodary.kei@gmail.com  
[www.keicontrols.com](http://www.keicontrols.com)

**Kennedy Industries**

Nick Heintz  
4925 Holtz Drive  
Wixom, MI 48393  
248-684-1200  
nheintz@kennedyind.com  
[www.kennedyind.com](http://www.kennedyind.com)

**Kerr Pump & Supply**

Joe Ash  
12880 Cloverdale Street  
Oak Park, MI 48237  
248-543-3880  
joeash@kerrpump.com  
[www.kerrpump.com](http://www.kerrpump.com)

## M

**M.E. Simpson Co., Inc.**

Natalie Wainscott  
3406 Enterprise Avenue  
Valparaiso, IN 46383  
800-255-1521  
natalien@mesimpson.com  
[www.mesimpson.com](http://www.mesimpson.com)

**Michigan Pipe & Valve**

Justin Jaime  
596 Kochville Road  
Saginaw, MI 48604  
989-752-7911  
justin.jaime@michiganpipe.com  
[www.michiganpipe.com](http://www.michiganpipe.com)

**Moore & Bruggink, Inc.**

Adam DeYoung, PE  
2020 Monroe Avenue NW  
Grand Rapids, MI 49505  
616-363-9801  
adeyoung@mbce.com  
[www.mbce.com](http://www.mbce.com)

## P



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**Peerless Midwest, Inc.**

Bob Masters  
505 Apple Tree Drive  
Ionia, MI 48846  
616-527-0050  
robert.masters@  
peerlessmidwest.com  
[www.peerlessmidwest.com](http://www.peerlessmidwest.com)

**Pittsburg Tank & Tower  
Maintenance Co.**

Kris Wilkerson  
PO Box 913  
Henderson, KY 42419  
270-826-9000  
pheltsley@pttg.com  
[www.pttg.com](http://www.pttg.com)

**Prein & Newhof**

Mark Prein  
3355 Evergreen Drive NE  
Grand Rapids, MI 49525  
616-364-8491  
info@preinnewhof.com  
[www.preinnewhof.com](http://www.preinnewhof.com)

**PVS Technologies, Inc.**

Eileen Hauser  
10900 Harper Avenue  
Detroit, MI 48213  
313-921-1200  
ehauser@pvschemicals.com  
[www.pvschemicals.com](http://www.pvschemicals.com)

## S

**SLC Meter, LLC**

John Traynor  
595 Bradford Street  
Pontiac, MI 48341  
800-433-4332  
sales@slcmeter.com  
[www.slcmeterllc.com](http://www.slcmeterllc.com)

**SUEZ Advanced Solutions**

Dan Kitchen  
1230 Peachtree Street NE,  
Suite 1100  
Atlanta, GA 30309  
855-526-4413  
dkitchen@utilityservice.com  
[www.suez-na.com](http://www.suez-na.com)

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Fax: (616) 374-7116

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- Warranty Inspections
- Underwater (ROV) Inspections
- Tank Coating Applications
- Bridge Coating Inspections
- New Tank Welding and Coatings
- Security Maintenance Inspections

**Engineering Services:**

- Tank Repainting Specifications
- Cathodic Protection Specifications
- Specification Review
- Antenna Design and Review
- Tank Structural Repair Specifications
- Tank Rehabilitation
- Coating System Failure Analysis
- Treatment Plant Coating Specifications

Our staff is comprised of engineers and NACE, SSPC, AWS, and API certified inspectors.

Visit our website at <http://www.dixonengineering.net> for more information about these and our other services.

## LISTINGS

### T

#### Tetra Tech

710 Avis Drive, Suite 100  
Ann Arbor, MI 48108  
734-213-4070  
melissa.collingham@  
tetrattech.com  
[www.tetrattech.com](http://www.tetrattech.com)

#### United Systems & Software, Inc.

Steve Flaherty  
PO Box 547  
205 Ash Street  
Benton, KY 42025  
260-515-3800  
stevef@united-systems.com  
[www.united-systems.com](http://www.united-systems.com)

### U

#### UIS SCADA

Ken Wesley  
2290 Bishop Circle East  
Dexter, MI 48130  
734-424-1200  
ken.wesley@uiscorp.com  
[www.uisscada.com](http://www.uisscada.com)

### W

#### Wade Trim

David Nummer  
500 Griswold Street, Suite 2500  
Detroit, MI 48226  
800-482-2864  
dnummer@wadetrim.com  
[www.wadetrim.com](http://www.wadetrim.com)



#### Water Solutions Unlimited, Inc.

Mark McKee  
8824 Union Mills Drive  
Camby, IN 46113  
317-736-6868  
order@getwsu.com  
[www.getwsu.com](http://www.getwsu.com)



#### Waterworks Systems & Equipment, Inc.

Dave Connors/Chuck Kronk  
P.O. Box 575  
Lakeland, MI 48143  
810-231-1200  
ckronk@  
waterworkssystem.com  
[www.waterworkssystem.com](http://www.waterworkssystem.com)



#### Watertap, Inc.

Anthony Carpani  
48595 West Road  
Wixom, MI 48393  
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The annual MI-AWWA membership directory is now available to download from the Section's website. Use it as a networking reference. Peruse the committees and see where you might want to get involved.

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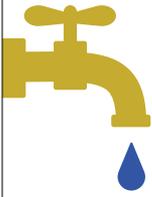
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