

WINTER 2015

MICHIGAN

WATER WORKS NEWS

JOINT EXPO 2015

February 3-4, 2015

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WATER WORKS NEWS

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Randall Roost, Lansing Board of Water & Light
730 E. Hazel P.O. Box 13007 Lansing, Michigan 48901-3007

Editor:

Randall Roost / Lansing Board of Water and Light

Assistant Editor:

Kristen Philip / MDEQ, Community Drinking Water Unit

Randall Roost

Chair
Lansing Board of Water & Light
(517) 702-6114
rwr@lbwl.com

Barbara Marczak

Chair Elect
Prein & Newhof, Inc.
(231) 798-0101
bmarczak@preinnewhof.com

John Willemin

Vice-Chair
Fishbeck, Thompson Carr & Huber
(616) 575 3824
jawillemin@fth.com

Tom Smith

Past - Chair
Prein & Newhof, Inc.
(616) 364-8491
tsmith@preinnewhof.com

Brian Steglitz

Director
Michigan Section, AWWA
(734) 794-6426
bsteglitz@a2gov.org

Brian Thurston

Secretary Treasurer
MDEQ-RMD-Cadillac
District Office
(231) 590-3430
thurstonb@michigan.gov

Carrie Ricker Cox

Trustee 2014-2015
Oakland County
(248) 858-0678
coxc@oakgov.com

Jaime Petrovich

Trustee 2012-2015
City of Wyoming
(616) 399-7846
petrovichj@wyomingmi.gov

Bruce Bartley

Trustee 2013-2016
NSF, Intl.
(734) 883-3639
bartley@nsf.org

Bill Fritz

Trustee 2013-2016
Waterford Township
(248) 618-7464
wfritz@twpwaterford.mi.us

Bill Maier

Trustee 2014-2017
Lansing Board of Water and Light
(517) 702-6813
wfm@lbwl.com

Liane Shekter Smith

Trustee 2014-2017
MDEQ
(517) 284-6543
shekterl@michigan.gov

Michigan Water Works News is published for the Michigan AWWA by

Craig Kelman & Associates Ltd.
3rd Floor - 2020 Portage Avenue
Winnipeg, MB • R3J 0K4
Tel: 866-985-9780 Fax: 866-985-9799

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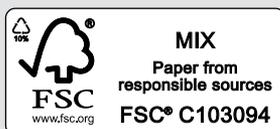
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Advertising Coordinator: Stefanie Hagidiakow



WINTER 2015

CONTENTS



FEATURES

SPOTLIGHT ON ALPENA
WATER TREATMENT PLANT..... 14

THE “CORE COMPONENTS”
OF ASSET MANAGEMENT..... 16

JOINT EXPO PREVIEW 18

CYBER SECURITY FOR
MICHIGAN UTILITIES..... 27

DEPARTMENTS

Chair’s Message 6

Director’s Report 8

Executive Director’s Message..... 10

Committee News 12

MDEQ Update..... 28

Member Update 30

News & Notes..... 33

Professional Directory 37

Advertisers Index..... 38

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HEADING IN THE RIGHT DIRECTION

RANDALL ROOST, CHAIR

John Kotter is one of the leading experts on the anatomy of organizational change and some of the issues that come with leading that change. In his 1996 book, *Leading Change*, he outlines eight critical success factors – from establishing a sense of extraordinary urgency, to creating short-term wins, to changing the culture (“the way we do things around here”). While we have not been following his theories letter by letter, there are a number strong similarities between our approach to change here in the Michigan Section and his eight steps to transformation. So what are those eight steps?

I believe that we are currently somewhere between steps four and six. Our strategic planning team set the stage with establishing a sense of urgency two years ago when we all began our “Race for Relevance” and the development of the new strategic plan. We then put in place a strong group of individuals with a long history of involvement in the Section to pull together our vision and to develop the strategies to achieve that vision. Last fall and throughout 2014, we have been communicating our vision and just this past October we began empowering our members through the development of our councils to act on our vision. Over the past few months, the councils have been busy putting together their business plans and they budgetary requirements that will be acted upon by the Board at the January 2015 Executive Board meeting in Lansing.

EIGHT STEPS TO TRANSFORMING YOUR ORGANIZATION

- 1 Establishing a Sense of Urgency**
 - Examining market and competitive realities
 - Identifying and discussing crises, potential crises, or major opportunities
- 2 Forming a Powerful Guiding Coalition**
 - Assembling a group with enough power to lead the change effort
 - Encouraging the group to work together as a team
- 3 Creating a Vision**
 - Creating a vision to help direct the change effort
 - Developing strategies for achieving that vision
- 4 Communicating the Vision**
 - Using every vehicle possible to communicate the new vision and strategies
 - Teaching new behaviors by the example of the guiding coalition
- 5 Empowering Others to Act on the Vision**
 - Getting rid of obstacles to change
 - Changing systems or structures that seriously undermine the vision
 - Encouraging risk taking and nontraditional ideas, activities, and actions
- 6 Planning for and Creating Short-Term Wins**
 - Planning for visible performance improvements
 - Creating those improvements
 - Recognizing and rewarding employees involved in the improvements
- 7 Consolidating Improvements and Producing Still More Change**
 - Using increased credibility to change systems, structures, and policies that don't fit the vision
 - Hiring, promoting, and developing employees who can implement the vision
 - Reinvigorating the process with new projects, themes, and change agents
- 8 Institutionalizing New Approaches**
 - Articulating the connections between the new behaviors and corporate success
 - Developing the means to ensure leadership development and succession



We now need to move on to the next steps in the process and that is to create some short-term wins and to highlight those wins so that our members can begin to see the benefits of the improvements that we have making.

So let us first take a look at our successes to date. In the fall of 2013, we finalized the strategic plan and approved it by the Board. Then, in 2014, we hired our first Executive Director and we are currently in the process of adding additional staff members to take care of the day-to-day Section business. We have also established two different Board level task forces. The first is being lead by Pat Staskiewicz and that task force is looking into the changes that we need to make to our Section bylaws to reflect our new organizational structure and our new procedures. Brian Thurston is leading the second task force. This task force is looking into making significant changes to our accounting practices and procedures to make us more efficient and to reflect our organizational structure changes. These task forces will take considerable time and effort and they include a number of different Board members on each. We met in October at our Council Leadership Retreat and kicked off our official transition from

our old “all committee” structure to our new council structure. Many of the councils have been very busy and are well on their way to success. Others are still caught somewhere between the role of the council and the committees that they represent. This has caused at least some of the reasons for our holdup in moving forward as quickly as we would like to.

Our volunteer committees have been the lifeblood of the Section for many years, but a decline in our membership and a corresponding drop in committee membership have made the task of maintaining over 40 different committees challenging. With that in mind, our new Councils will help to reduce the overlap between committees and councils and will hopefully allow us to do more with fewer volunteers and with assistance from our new staff members. Our councils have already begun meeting, have drafted their work plans for 2015, and have submitted budgets for their proposed activities. Where we are falling behind is creating a clear distinction between the role of the committees and the councils.

This is one of the issues that we have tasked each of the councils to address over the next year. They will be making recommendations to the Board

as to what committees should stay and what committees can be phased out. To make sure that our committees are also heard during this process we have filled the council leadership teams with the current committee chairs and vice-chairs and with other committee members where necessary. We are asking all of the committees to take a hard look at what they have accomplished in the past and to help our councils determine where in our organizational structure that task best fits. We have tried to take each of the committees and place it underneath one of the councils where we think the major tasks of that committee fit best. In some cases, the committee has parts that fit under multiple councils. (See the attached org chart on page ?)

No one ever said that this transition would be easy nor did they say that it would be fast. What we can say is that we are definitely moving forward and in the right direction. We acknowledge however that we are likely to make a few mistakes along the way. If you serve on one or more of our committees and you find yourself at a loss for where you fit into the bigger picture, don't hesitate to contact myself, Bonni-fer, or any of the other Board members for clarification and to help you find your role in the future of the Section. 💧

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UNDER PRESSURE

BRIAN STEGLITZ, DIRECTOR

Given the logistics of working with the publisher of our quarterly newsletter, I am writing this column in the midst of college football season, though you won't be reading it until January. Being from Ann Arbor, and a University of Michigan fan, it is likely that I will be in therapy come January given the current status of the U of M football program. To make matters worse Notre Dame is in the top 10, and U of M is coming off a whipping by our friends from East Lansing. With the MI Section Chair a MSU fan and former Trustees and Director Notre Dame fans, it seems like I just can't hide. What, you say, does this have to do with AWWA and water? I am getting to that.

As the coaching staff and athletic director are being carefully scrutinized regarding their responsibility for the current state of Michigan football, there have been some to claim

that maybe "there is something in the water". Now this is where it gets personal. Being responsible for delivering safe drinking water to a community over 100,000 people, many of whom occupy a single facility on Saturday afternoons, is one thing, but being responsible for the performance of a multi-million (maybe billion) dollar athletic enterprise, is yet another. Does our responsibility as purveyors of drinking water extend beyond health and safety? It is possible that our products can actually impact the performance of trained student athletes?

I decided to do a little research on where the phrase "there must be something in the water" originates. In relatively recent history it was used in the film *The Stepford Wives* to reflect that all of the women in Stepford were behaving similarly, and that maybe it was something in the water. In the *Midshipman's Trip to Jerusalem*

published in 1872, over 100 years before *The Stepford Wives*, Augustus Lyne indicates that "...there is something in the water which renders the people sturdy, hard, and fearless..." Interestingly enough this early reference pre-dates the founding of AWWA. That water is capable of making people sturdy and fearless is quite powerful, and seems like these would be good attributes for a college football team if utilities were able to deliver such a product.

Jump ahead to 2002 when three staff at the Water Treatment Plant in Ann Arbor had babies delivered on the same day. It was then commented that there must be "something in the water".

Is it possible that among the many properties of water, that it can also be responsible for the giving of life and performance of a once powerful football program? If it's not the water, than what could it be?? 💧

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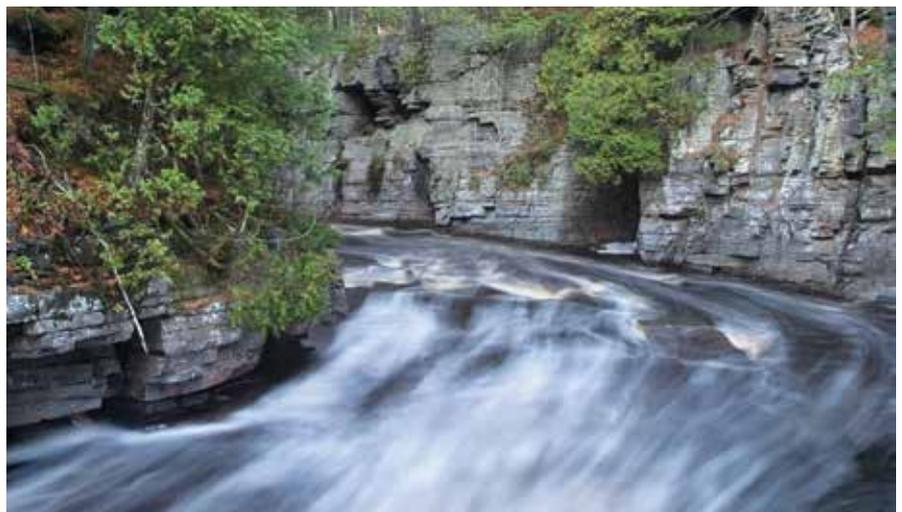
NEW YEAR MEANS NEW BEGINNINGS

BONNIFER BALLARD, EXECUTIVE DIRECTOR

Maybe you have read about it. Maybe you have heard about it from a colleague or friend. The Michigan Section is changing. It's true, sort of. I like to think of this more as a different part of an already amazing river ride. Same us – different river.

I imagine the Section moving along a river; sometimes the water is calm and smooth, and sometimes it is white with foam over the rocks. Both take skill to navigate (you never know what is just below the surface of a calm looking river) and both can be a lot of fun for water lovers. Over the years we have been lucky enough to have great leaders who have steered us through both. And as we stand at the beginning of 2015, the Section is facing new waters.

In mid-2013, the Board of Trustees approved a new strategic plan, beginning our journey down a new branch of this river. (For a copy of the plan, visit the Section website.) The plan was introduced at the Chairs' Retreat that year. A new governance structure was unveiled that raised many questions. During 2014, those questions were put on hold while the Section recruited its first Executive Director. (A position I am honored to hold.) With me coming on board in July, we were able to then turn back to the governance structure. At the Leadership Retreat in the fall of 2014 (formerly known as the Chair's Retreat), we helped our six new Councils get to know their charge and prepare for their new roles.



Toward the end last year, we said farewell to Dave Timm, a long-time AWWA member, a former Assistant Treasurer, and most recently the Section's Assistant Business Operations Manager. He retired from the State of Michigan in 2011 and has now retired from his role as Section staff as well. In anticipation of this as well as the upcoming retirement in February of Business Operations Manager Eric Way, the Section hired two new staff recently. The staff's goal is to carry on the tradition that Eric and Dave established of providing great service to you while working with members to introduce new offerings.

Now that we have the new governance structure and staff in place, and the course charted, we are ready to take on the new waters of 2015.

All of this is being done to make your Michigan Section of AWWA more

valuable to you in your career. You now have the opportunity to get involved the way that makes the most sense for you and where you are in your career.

You may simply want to attend trainings. You may want to get involved only when you have some time. Or perhaps you are at a place in your career when you're ready to commit time and share your expertise. You have the opportunity to get involved in as little or as big a way as you would like. Just let us know that you are interested and we will plug you in.

During the coming year, there will be evaluations and surveys, traditional programs and the launching of a new logo and look to our materials (see AWWA2020 on pg X). We have deeply committed leaders in place to guide us and a dedicated staff to keep us moving forward. We're in for an exciting ride! 💧

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SAFETY MATTERS

By MI-AWWA Health & Safety Committee and *Safety.blr.com*

Be Safe In Cold Weather

To avoid frostbite or hypothermia – the two most common hazards of exposure to cold temperatures – take these precautions:

- Dress in layers of loose, dry clothing, starting with a thermal layer and ending with a waterproof layer.
- Always cover your hands and head. An uncovered head can cause the body to lose up to 40 percent of its heat.
- Wear shoes that keep your feet warm and dry and prevent slips and falls.
- If your clothes or shoes get wet, change into dry ones if possible. Hypothermia can develop in temperatures that aren't that cold if you're wet.
- Move to a warm area when you feel very cold or numb. Have a warm alcohol-free, caffeine-free drink.

Trained and Authorized?

Safety is not only about what you do; it's also about what you don't do. Unless you've been trained and authorized:

- Don't operate machinery, including forklifts and other powered vehicles.
- Don't use hazardous chemicals.
- Don't attempt electrical repairs.
- Don't fix machinery and other equipment.



Winter Work: Stay safe on the road and on the job

Most injuries during winter storms – 70 percent according to the National Weather Service – are a result of vehicle accidents, while 25 percent result from being caught out in a storm. If your work requires you to drive when there is a possibility of a winter storm, be prepared.

Inspect vehicles before use to ensure they're in good working condition. Include tires, oil, brakes, visibility systems, the engine, the cooling system, the exhaust system, and the electrical system in the inspection. When working in winter weather, take precautions against the following hazards:

Frostbite and hypothermia

Both are conditions that can result from exposure to extreme cold. Frostbite is severe, sometimes permanent damage to the deep layers of skin and

tissue characterized by a loss of feeling and a waxy-white or pale appearance in the fingers, toes, nose, or earlobes. Hypothermia occurs when the body temperature drops below 95° Fahrenheit. Symptoms include uncontrollable shivering, slow speech, memory lapses, frequent stumbling, drowsiness, and exhaustion. Severe hypothermia can be fatal.

To prevent frostbite and hypothermia, workers should wear proper clothing for cold, wet, and windy conditions. This typically consists of several layers, including a water-resistant outer layer, a hat, and gloves. In addition, workers should take frequent, short breaks in warm, dry shelters; drink warm, sweet beverages (avoiding those that contain caffeine or alcohol); and eat warm, high-calorie foods.

To help a person with possible frostbite or hypothermia, seek immediate medical assistance and warm the person slowly, starting with the trunk. Arms and legs should be warmed last. Put the person in dry clothing and wrap him or her in a blanket. Never give the person anything containing caffeine or alcohol.

Slips and falls

To avoid injuries, clear walking surfaces of snow and ice and use salt, sand, or other materials to melt ice and provide traction. If employees must walk on snow- and ice-covered surfaces, they should make sure to wear boots with good rubber treads to provide traction. 💧

Safety Question of the Quarter

At which water temperature should you bathe frostbitten skin?

- A) At 32 F (0°C)
- B) Between 104 to 107.6 F (40 to 42°C)
- C) Between 120 to 150 F (50 to 70°C)
- D) You should never submerge frostbite into water

Answer: B) Mayo Clinic advises that frostbitten body parts should be warmed gradually in water that is 104 to 107.6°F (40° to 42°C). Additionally, you can wrap or cover the frostbite in a warm blanket. Don't use direct heat, such as a stove, heat lamp, fireplace or heating pad, because these can cause burns before you feel them on your numb skin.





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 2015 (in conjunction with the Annual Conference) for the following positions:

- Trustees – two each for three year terms
- Vice-Chair – former or current Trustees, to serve through the four year Chair cycle
- Director – three year term
- Secretary Treasurer – one year term

Self and peer nominations are both encouraged. Please also note the bylaws of the Section indicate that one of the Board members should be from the Upper Peninsula of Michigan and one should be 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.

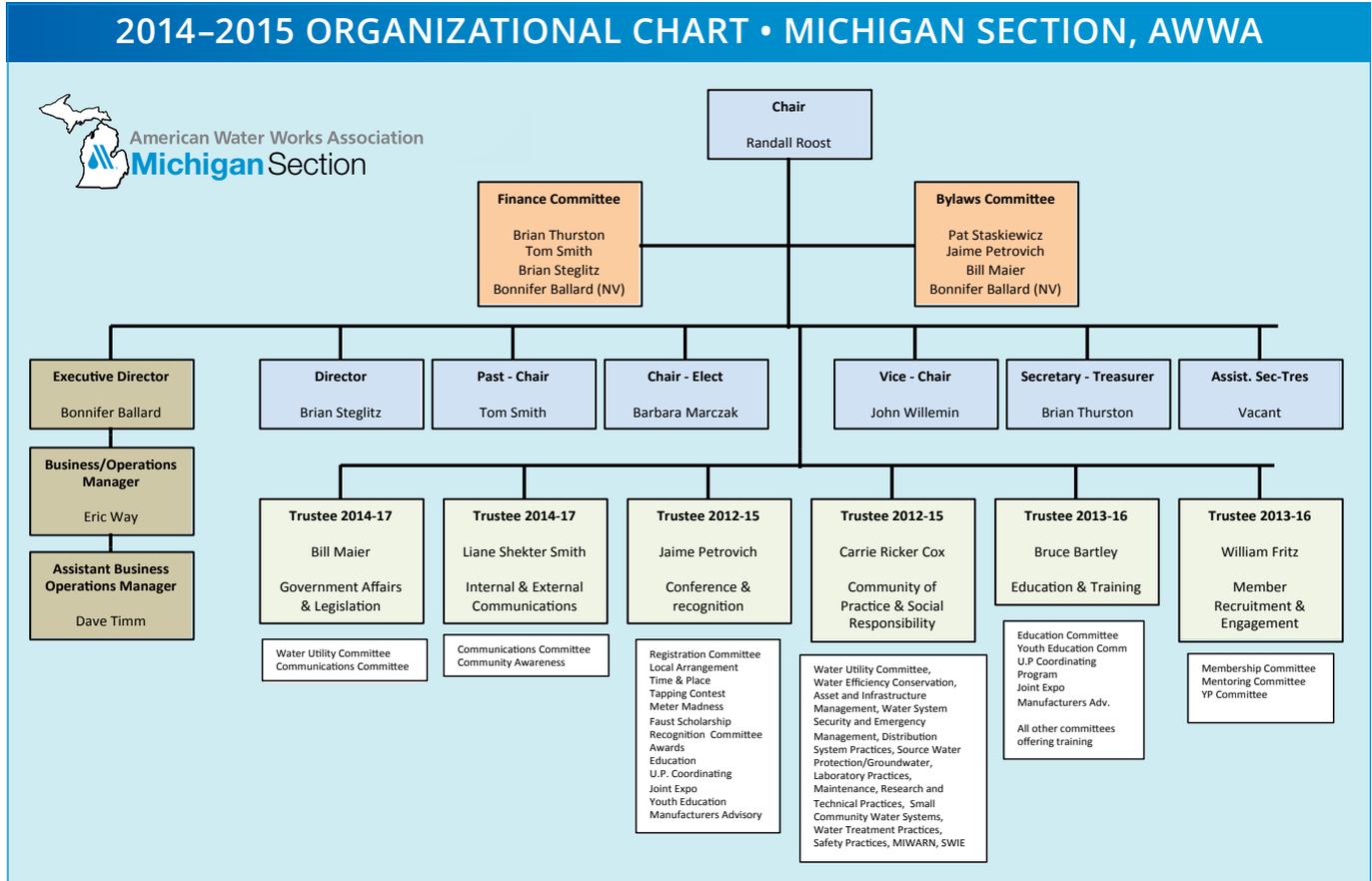
A nomination should include a short statement of interest and a brief resume of industry and AWWA activities. Interested members are encouraged to contact any of the Nominating Committee members with any questions; committee members are Brian Steglitz (chair), Barbara Marczak, John Willemin, Bruce Bartley, Bill Fritz and two at-large members to be named by the Board in January.

Nominations are due by May 1, 2015, and should be submitted to:

Brian Steglitz, Nominating Committee Chair, MI-AWWA
c/o City of Ann Arbor
919 Sunset Rd.
Ann Arbor, MI 48103
E-mail: bsteglitz@a2gov.org
Phone: (734) 794-6426 ext. 43905

Those who have submitted nominations in previous years are reminded to please reconfirm their interest for the coming year. 💧

2014-2015 ORGANIZATIONAL CHART • MICHIGAN SECTION, AWWA



Alpena Water Treatment Plant

By Terry Gougeon, United Water/City of Alpena and Bob London, DEQ



The city of Alpena is located in east-central Alpena County, on the shore of Thunder Bay (Lake Huron). Alpena has a population of approximately 10,500, and the city also provides water to approximately 5,200 customers in Alpena Township. The original waterworks (an intake and pumping facility) was constructed in 1905 and has undergone periodic upgrades and expansions ever since.

Looking Back

Within a few years of the original 1905 project, the city added disinfection facilities: calcium hypochlorite in 1913, and conversion to a chlorine gas system in 1915. Construction of a 3 million gallon per day (MGD) complete treatment plant (flocculation, sedimentation, and filtration) began in 1922. Also constructed at that time was a 500,000 gallon finished water reservoir, with a second reservoir constructed in 1935. In 1953, the original steam-driven high service pumps were replaced with five new pumps – four with electric motors and one with a diesel engine drive unit.

The plant underwent a significant expansion in 1965, with the addition of rapid mix/pretreatment units and the construction of a new low service pumping station, another sedimentation basin, and three additional filters. The newly expanded plant had a rated capacity of 5.25 MGD (up from the original 3 MGD). The final expansion took place in 1996, when a fourth low service pump was installed and the plant's rated capacity was increased to 6 MGD.

Current Challenges

Alpena, like many other water utilities, faces challenges including aging

infrastructure, regulatory changes, and changes to its customer base. Alpena needs to meet these challenges and continue to produce water meeting all drinking water standards.

Aging infrastructure – As with many older facilities, time has taken its toll on the water plant structures and equipment. In fact, much of the work completed at the plant since the 1965 expansion has centered on replacement and rehabilitation of existing facilities.

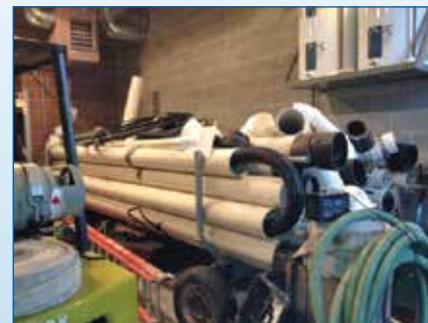
The original 42-inch riveted steel intake was fitted with a 30-inch polyethylene liner in 1977. Laboratory facilities and the original 4 filters were upgraded in the 1980's. Concrete pump bases and piping supports have been rebuilt to ensure proper structural integrity, and a number of valves have been rebuilt or replaced to ensure that critical plant components can be isolated for inspection and repair without interrupting normal treatment operations. Most recently, the roofs, walls, and floor slabs of the two concrete finished water reservoirs have been inspected and are being sealed to prolong their service life and prevent infiltration of rain and other non-treated waters. Also, the plant's on-line turbidity monitoring equipment and filter control components were recently updated.

Regulatory changes – New and increasingly stringent regulations have created challenges for the plant operational staff. The water of Thunder Bay is generally of high quality; however the intake is occasionally influenced by water from the Thunder Bay River, particularly in the spring and fall. Rapid changes in hardness, alkalinity,

turbidity and naturally occurring organic matter can make for difficult treatment situations. This highly variable source water requires a diligent and knowledgeable operator, because treatment changes to address one water quality problem may cause problems meeting other drinking water standards and treatment goals. A flash mixer was installed in the rapid mix chamber in 2012 to enhance pretreatment.

The intake is located in shallow water and is subject to sudden turbidity increases from wind and wave action. Low lake levels, as occurring in recent years, have left as little as 18 inches of submergence at the inner intake. Winter can pose a challenge by creating ice conditions at both intake openings, making for difficult back flushing situations to reopen the line. The entire bay is fairly shallow and to extend the intake or move its location would be a considerable expense. Alpena has fabricated a trailer-mounted temporary intake line in the event the main intake line is rendered unusable due to ice formation.

Because of the way the plant was upgraded to increase capacity, there is a bit of a hydraulic imbalance. Flows



Trailer Mounted Temporary Intake



New Flash Mixer



Water Plant Lab



Deteriorated Reservoir Roof Support Column

may not split equally between the two sides of the plant, depending on the combination of filters in use, which can cause an unequal draw from the two settling basins. This hydraulic imbalance can cause problems maintaining a consistent finished water quality.

Changing customer base – Reductions in water demands due to the loss of industrial base and the move toward water conservation have resulted in decreased water production; however, certain overhead costs exist regardless of the amount of water produced, so efficiencies are always being sought. For example, operations have been reduced to two shifts as a cost-saving measure.

Moving Forward

Alpena has undertaken studies on the future of the plant and its

components. The oldest components have exceeded 100 years of service and are approaching the end of their useful life, even with preventive maintenance. While there is room at the current plant

site for some replacement facilities, overall system needs, such as the vulnerability of the intake due to depth and water quality, must be considered moving forward. 💧



View of Thunder Bay from Water Plant

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The “Core Components” of Asset Management

Let's Get Started – The AIM CoP



Asset and Infrastructure Management (AIM) is a Community of Practice (CoP), residing under the Communities of Practice and Social Responsibility Council of the MI-AWWA. One of the goals for the AIM CoP is to provide a series of training activities on Asset Management. One form of training will come in a series of articles on the “core components” of Asset Management, building upon the efforts of the MDEQ, who have published their Asset Management Guidance for Water and Wastewater Systems. Find it at: http://www.michigan.gov/deq/0,4561,7-135-3307_3515_4143-10784--,00.html

The MDEQ document lists five “core components” of an Asset Management plan. These are:

- 1) Asset Inventory
- 2) Level of Service
- 3) Critical Assets
- 4) Revenue Structure
- 5) Capital Improvement Project Plan

There is no “order” to the five components, and the numbering does not indicate any action which needs to take place before another. This might be the

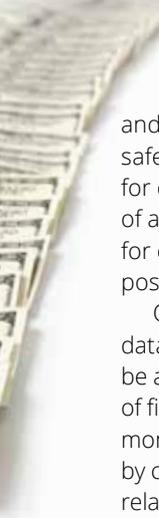
hardest concept of Asset Management, because there are conflicting opinions offered by people, many with vested interests, about where to “begin” with creating a sustainable approach to managing what you are responsible for. Asset Management is not “another thing” to start doing, and not another new requirement to add to your list of current responsibilities. You have been managing your assets all along. It’s what you do every day, whatever your role. Because asset management actions are concerned with lifecycle, there is no specific starting point, and no end point, as assets have a huge range of life spans, costs, maintenance needs, and ongoing oversight. What this article wants to impart is a comprehensive asset management “mindset” that brings a more informed perspective to those actions you perform each day, and that there is a bigger picture to the individual roles each person performs.

This article is intended to give the reader some insight into the component – Asset Inventory. A “good” inventory does not need to be done first,

but it is the basis for the other Asset Management components, as it provides the breadth and depth of those things that must be managed and funded for overall business sustainability.

If we look at the DEQ document under the heading of “Asset Inventory” we find several questions that are addressed: What do I own? Where is it? What condition is it in? What is its remaining useful life? What is its value? The document then gives several answers for each of these, and while noting that this is the most “straightforward” of the five components, it is an ongoing activity to keep the inventory in as complete a form as possible. This is not an exhaustive list, but it is a good start. One missing piece is there is no strict definition given about what makes something an “asset,” nor how far one should go in the “granularity” of categorizing assets (e.g. do you list components and subassemblies?) Some choose to list only those assets above a threshold dollar value. Some add assets that might fall below that threshold, but rank high in criticality

7
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and risk (e.g. a SCADA component or a safety device). Whatever the rationale for creating the asset list, the definition of an asset needs to be documented for common understanding, and later possible review and revision.

Once there is a list of assets, the data associated with each of them can be as “wide” (think of this as the number of fields in a database) as time and money will allow. Geographic locations by coordinates, pictures, parent/child relationships (e.g. the lead and subordinate roles in a process), date purchased, facility located in, process it’s a part of, cost center associated with, contract it was installed under, original cost, make and model, manufacturer predicted life, drawings, manuals, and any relevant piece of information about the asset – all help make the inventory more useful, but also more wieldy to analyze and use. Current condition is one of the fields that needs to be added to the inventory, but a “consistent” manner of evaluating and ranking condition must be used. It needs to become part of the organizational culture that daily activities that touch assets can provide useful data on them, and needs to be seen as a useful task, and captured somewhere in records. There are a wide range of methods to evaluate condition, from simple – current age versus predicted life, to complex, such as thermal imaging, vibration analysis, oil analysis, imaging technology, and others. It is a difficult effort to establish priorities and balance available funding with the need to obtain better information on current condition, and a clearer understanding of remaining useful life. Even better information on current condition does not tell us directly what to do about an asset – and whether repair, rehabilitate, replace, or re-design is the right option. Those decisions are made with a wider set of information about an asset that hopefully a more complete asset inventory can provide.

Location is another important piece of data that needs to be captured for every asset identified in an inventory. This can be done in many ways, from simple drawings to expensive computer based systems. Today’s web-based map tools can be a good way to start. Some care will need to be taken to protect

sensitive information, like where critical devices and structures are located, for security reasons. As with all types of data gathered, a consistent naming convention and scheme is advised, so that everyone, regardless of their reason for interaction with an asset, recognize it by the same nomenclature. The fields of data associated with an asset’s location can be quite diverse, and include information about related pieces of information (e.g. for buried pipe – soil conditions).

The last question the DEQ document addresses is the “value” of assets. This data field is necessary to help justify and create adequate budgets for sustainable operations. It is usually based on the cost to replace an asset after its useful life, but it can also contain components of impact and importance. There is a component of time associated with these numbers, as price fluctuations can occur based on industry supply and demand, and a replacement number generated today, might be substantially different in a few years. If replacement is done concur-



rent with another activity, or while something related is out of service, costs could vary as well. Therefore the rationale for the value needs to be captured along with the dollar value for each asset. If inventories are “complete” and contain a breadth and depth of pertinent information, compelling scenarios can then be created for budget battles and justifications.

As assets are acquired or retired, ongoing operation and maintenance activities are performed, and information about replacement opportunities is learned, the inventory must be updated and kept current. The culture of your organization must recognize that this is part of everyone’s job, only successfully performed as a team, and not one person’s responsibility.

Look for future articles on Asset Management – the next subject is Level of Service. In the meantime, if you are interested in joining the AIM CoP you can contact the MI-AWWA Communities of Practice and Social Responsibilities Council at <http://www.mi-water.org/councils/council-teams.html>. 💧

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MI-AWWA/MWEA JOINT EXPO 2015

Lansing Center, Lansing, MI | February 3 & 4, 2015

Show Hours: Tuesday, February 3, 10:00 a.m. - 4:00 p.m. • Wednesday, February 4, 9:00 a.m. - 3:00 p.m.

Co-sponsored by the Michigan Section – American Water Works Association (MI-AWWA) and the Michigan Water Environment Association (MWEA), JOINT EXPO is an exposition for equipment suppliers, manufacturers, and consulting engineers who want an effective method to exhibit their products and services to water professionals. Any company or organization that manufactures and/or provides products or services to the drinking water and wastewater treatment communities is eligible to exhibit.

No registration fee for attendance, so water and wastewater utilities and consulting engineering firms are encouraged to send several representatives.

Exhibit area buffet lunch/concessions and complimentary soft beverages will be available.

MI-AWWA Water Main Tapping Contest and the Meter Madness Contest will be held during the show. The winners will receive an expense paid trip to the June 2015 AWWA Annual Conference & Exposition in Anaheim, CA to represent the Michigan Section at ACE15.

2015 Annual Conference registrations will be given away to members' present and entering drawing from the MI-AWWA and the MWEA. (Exhibitors are not eligible for drawings.)

SPACE FOR LARGE EQUIPMENT

JOINT EXPO has space for nearly 300 booths and can accommodate exhibitors with large equipment in multiple booths. Each booth is 10' deep x 10' wide. Multiples of this base size may be reserved. In 2014, there were more than 2,000 show and booth attendees combined, and booth space was sold out.

PRICING FOR BOOTH SPACE is \$620 for one booth with a discount for multiple contiguous booths for on-line registrations

made on or before December 31, 2014 and for registrations postmarked or faxed on or before December 31, 2014.

For your convenience we accept:



EXHIBITOR LUNCHES

Hot buffet and box lunch options are again available to exhibitors for advanced purchase. See application form.

TRAINING PROGRAMS

Operators' Day is a 3-hour technical session, featuring topics unique to the interests of water and wastewater operators. It will be conducted each morning during JOINT EXPO. Also offered again this year will be a training program on Tuesday morning for utility and DPW managers, consulting engineers, and other "decision makers."

Training programs end before noon, and participants will be given a ticket for the exhibit area lunch buffet, so there will be ample time for training program attendees to view the exhibits.

Register on-line/view updated JOINT EXPO information at:
<http://www.mi-water.org>

RULES AND REGULATIONS

Exhibitor set up

February 2 from 4:00 p.m. - 8:00 p.m.

February 3 from 7:00 a.m. - 9:30 a.m.

Show hours

February 3 from 10:00 a.m. - 4:00 p.m.

February 4 from 9:00 a.m. - 3:00 p.m.

Breakdown

February 4 to begin after exhibits close at 3:00 p.m.

EXHIBIT RULES/REGULATIONS

The following rules and regulations will govern JOINT EXPO and are

made a part of all contracts for space between the MI-AWWA and MWEA and the person, partnership or corporation engaging space. The JOINT EXPO planning committee reserves the right to bar from the EXPO any exhibit or part of exhibit, person or thing, that is not, in the opinion of the planning committee, in keeping with the character and purpose of JOINT EXPO. Since the purpose is to show products and services to water and wastewater professionals, it is required that one or more such products or services be exhibited.

CHANGING BOOTHS OR SUBLETTING OF SPACE

No exhibitor shall neither change booths nor sublet any part of the space allotted to them, except upon permission of the show coordinator.

SOLICITATION OF BUSINESS

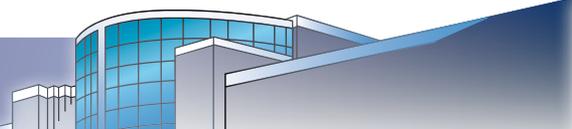
Solicitation of business shall be confined exclusively to firms exhibiting at JOINT EXPO.

FIRE HAZARDS

All exhibits must conform to the ordinances and regulations of the City of Lansing and the laws of the State of Michigan.

HEIGHT OF DISPLAY

Exhibitors may install signs, display counters, and similar items, not to impede visibility of any booths. The sides of any such display may not extend toward the aisle more than one half of the booth depth. The back side of any display extending above the side dividers must be covered. Any sound tracks and/or audio presentations must be kept at a low volume so as not to disturb adjoining exhibits. Exhibitors are not allowed to use the house sound system and show staff will not make any such announcements on the exhibitor's behalf.



BOOTH SIZES

Booth sizes are 10' deep x 10' wide booths. Multiples of this booth size are available.

CONTACT INFORMATION FOR JOINT EXPO & OPERATORS' DAY ATTENDEES

Individuals registering for Operators' Day provide MI-AWWA/MWEA with contact information. It is the policy of the Joint Expo Planning Committee to provide names and physical mailing addresses for these individuals to exhibitors approximately 10-14 days prior to JOINT EXPO and again approximately 14-21 days after JOINT EXPO. Individuals attending JOINT EXPO and not registering for Operators' Day do not provide MI-AWWA/MWEA with contact information. E-mail addresses and/or phone numbers of Operators' Day and/or Joint Expo attendees WILL NOT be provided to exhibitors.

ELECTRICAL SERVICE

The building will be adequately illuminated for general use. Any outlets or utility requirements other than that provided in the standard package must be requested directly from the Lansing Center.

STANDARD BOOTH EQUIPMENT

Each booth will be furnished with two, three-foot high side dividers and an eight-foot high backdrop of flame retardant material, booth carpeting, a 2' by 8' skirted table, two chairs, booth number, wastebasket and access to standard 120 volt AC outlets. Special displays, decorating, other booth furnishings or utilities may be obtained by advance request from the official show decorator Art Craft Display and/or the Lansing Center. Additional tables or utility services are available only by contacting Art Craft Display and/or the Lansing Center. Go to www.artcraftdisplay.com and click on "Get Exhibitor Kit" then enter Event Code: 230931. You will need your booth number. Booth assignments will be provided to you by January 12, 2015. The Art Craft advance order deadline is Monday, January 19, 2015, at 5:00 p.m. EST.

INSTALLATION OF EXHIBITS

Installation of exhibits is available Monday from 4:00 p.m. to 8:00 p.m. and Tuesday beginning at 7:00 a.m. and must

be completed by 9:30 a.m. Tuesday for preview inspection by members of the planning committee. No motorized vehicles are permitted in the aisles after thirty minutes prior to the scheduled opening of the show to the public. The exhibit hall has direct loading entrances. Exhibits must be maintained; no removals will be permitted until after the close of the exhibits at 3:00 p.m., Wednesday, February 4, 2015. For the safety and comfort of all exhibitors, security is notified to open the overhead doors at close of show only!! Only Exhibitors and show personnel will be admitted to the exhibit hall prior to show times on Tuesday and Wednesday, upon display of their Exhibitor's badge. Carts and boxes in aisle-ways and blocking exits during show hours is a safety hazard and prohibited by the Fire Marshall. Exhibitors must have their exhibit removed from the building by 6:00 p.m., Wednesday, February 4, 2015 or their remaining effects may be placed in storage at the exhibitor's expense. Thank you for your cooperation.

INSURANCE AND LIABILITY

All items that can be carried away should be put in safekeeping when the booth is not attended. While the JOINT EXPO planning committee provides security service, the committee will not be responsible for any loss of any exhibit or part thereof, by theft, fire, water, accident, or any other cause, nor for the loss or damage to any goods consigned to their care, nor will they be responsible for any injury that may occur to an exhibitor or to his employees. Exhibits and exhibit equipment are brought into the building, maintained and removed at the exhibitor's risk. Exhibitors should ascertain that their public liability and employee compensation insurance policies embrace coverage of their employees attending the exhibit. If policies do not have coverage, exhibitors should instruct the broker of their company to attach endorsement of the coverage.

ALLOTMENT OF SPACE will be made to conform with contract requests as nearly as possible; however, all spaces are allocated on a first-come, first-serve basis of PAID exhibitors. Booth

assignments will be provided to you by January 12, 2015. In order to best serve the interests of the Associations, the planning committee reserves the right to reject any and all applications for space, without liability.

DESTRUCTION OR INTERRUPTION OF PREMISES

If the premises are destroyed by fire or the elements, strikes or any other cause, or if circumstances shall make it impossible for the JOINT EXPO planning committee to permit any exhibitor to occupy the premises, then, under these circumstances, such exhibitor shall be obliged to pay for the space only for the period space was or could have been occupied by such exhibitor at a pro rata basis, and the Michigan Section, AWWA, the Michigan Water Environment Association and the JOINT EXPO planning committee are released from any and all claims from damages which may arise in consequence thereof. Your company, company representative, or agent shall be held jointly, collectively and individually responsible for any and all debts incurred for all exhibit costs, fees or charges.

HOTEL ACCOMMODATIONS

Hotel Accommodations are the responsibility of the exhibitor. The Lansing Radisson Hotel, connected to the Lansing Center by pedway, is offering a flat room rate of \$128.95 per night for reservations on or before January 9, 2015. Phone 517-482-0188 and refer to Promotional Code AWWA15.

CANCELLATIONS

Cancellations received on or prior to January 5, 2015 are eligible for a refund, less a \$250.00 non-refundable fee. No refunds will be issued for cancellations submitted after January 5, 2015.

FOR ADDITIONAL INFORMATION ABOUT JOINT EXPO**Contact Eric Way**

Office phone: 517-627-0913
Cell phone/office fax: 517-292-2912
E-mail: eway.awwa@gmail.com

Register on-line/view updated JOINT EXPO information at:
<http://www.mi-water.org>.

EXHIBIT SPACE APPLICATION FORM

Fee Schedule

Number of Booths	Price	After December 31
1	\$620.00	\$720.00
2	\$1,100.00	\$1,300.00
3 or more	\$1,530.00 plus \$425 each additional more than three	\$1,830.00 plus \$475 each additional more than three

(Please Print Legibly)

Company _____ Contact Person _____

Mailing Address _____ City _____ State _____ Zip code _____

Telephone: _____ E-Mail: _____

Booth carpeting, a 2' by 8' skirted table, two chairs, a wastebasket and access to standard 120 volt AC outlets are available for each booth, at no additional cost. (Bring a power strip and/or short extension cord for in-booth adjustments.)

Number of Booth(s) requested _____; Amount due, according to fee schedule _____ =

Tues ____ HOT BUFFETS @ \$30 each; ____ BOX LUNCHESES @ \$20 each = _____

Wed ____ HOT BUFFETS @ \$30 each; ____ BOX LUNCHESES @ \$20 each = _____

Total Amount Due = _____

Name badges

Provide list of names/company no later than January 23, 2015. If the contact person also needs a name badge, include them on the list too. Exhibitors requesting multiple booths need to notify us by 5:00 PM on January 5, 2015 of the desired arrangement of the booths, i.e., linear, L-shaped, square, rectangle, etc.

Description of products/services to be exhibited; please fully complete this section so that we may ensure a complementary mix of booth assignments: _____

Cancellation On or Prior to January 5, 2015; less \$250.00 non-refundable fee. No refunds after January 5, 2015.

For payment with check or money order, make payable to: **Michigan Section, AWWA**

P.O. Box 609
Grand Ledge, MI 48837

We also accept Visa, Master Card, Discover or American Express

For credit card payments – fax form to (517) 292-2912 and provide credit card information below:

Cardholder Name & Phone Number _____

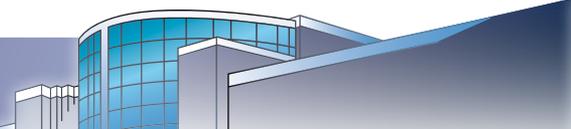
Card No. _____ Expiration Date _____

E-mail address for credit card payment receipt _____

Total amount enclosed OR amount to be charged to your credit card \$ _____

We understand assignment of booths is done on a first-come/first-serve basis, after full payment has been received. We hereby agree to and understand that all exhibitors are subject to the requirements, restrictions and conditions stated in this brochure and on the reverse side of this contract. By exhibiting at Joint Expo 2015, my company, its successors and assigns, hereby agrees to save and hold harmless the MI-AWWA & MWEA and any of its employees from all cost, injury, and damage incurred by any of the above, and from any other injury or damage to any person or property whatsoever, any of which is caused by an activity, condition, or event arising out of the performance, preparation for performance or nonperformance of any provision of this agreement by my company.

Signature _____ Date _____



OPERATORS' DAY

SEMINAR INFORMATION

Water and wastewater utility managers and operators should plan to attend either or both days of this training opportunity. This year's training program will focus on disaster preparedness/recovery, maintenance, alternate energy, asset management and communications. Attendees are invited to take full advantage of the displays of equipment and services at JOINT EXPO.

CONTINUING EDUCATION CREDIT

Operators' Day -

MDEQ Course Code: 338

0.3 Water & Wastewater Credits - CECS (each day) Category: Technical

Joint Expo Exhibits -

MDEQ Course Code: 344

0.2 Water & Wastewater Credits - CECS (total) Category: Other

EARN ADDITIONAL CECS

Attend In-Booth Presentations at Select Exhibitor Booths and earn 0.05 technical DW & WW CECS for each presentation.

(NOTE: You must attend at least 2 presentations for CECS to count.)

JOINT EXPO EXHIBIT SHOW HOURS

Tuesday, February 3, 2015:

10:00 a.m. - 4:00 p.m.

Wednesday February 4, 2015:

9:00 a.m. - 3:00 p.m.

JOINT EXPO is an exposition for utility personnel and consultants by equipment suppliers, manufacturers and consulting engineers who want an effective method to exhibit their products and services to water and wastewater professionals. It is a day to collect, see and evaluate new equipment, exchange business cards with exhibitors and new contacts, see old friends, learn, share, network, shop, compare and evaluate how your facility/business compares to where you need to be in the future. For exhibitor information, contact:

Michigan Section AWWA

Office: 517-627-0913

Fax: 517-622-4379

Or Visit our website at: www.mi-water.org

Tuesday, February 3, 2015	
7:15 am	Registration - Coffee and rolls until 7:45am
8:10 am	Welcome and Introductions
8:15 am	Disinfection Alternatives for Water and Wastewater Trevor Wagenmaker , P.E. HRC and Robert Case , City of Flint WPCF Supervisor
9:00 am	Plans and Specs Tim Sullivan , HNTB
10:00 am	Traffic Safety Bernie Brewer
10:45 am	Operators Role in Asset Maintenance Katie Erickson , City of Wyoming
11:00 am - Lunch	Adjourn to Joint Expo for Lunch Buffet

Wednesday, February 4, 2015	
7:15 am	Registration - Coffee and rolls until 7:45am
8:10 am	Welcome and Introductions
8:15 am	Pump Maintenance Ken Colston , KDC Consulting
9:00 am	N. MI Winter Maintenance and Repair Challenges Curt Goodman , City of Marquette
10:00 am	Efficient Pumping Bob Domkowski , Xylem/Flygt
10:45 am	Customer Service Tom Trice , MI Public Service Institute
11:00 am	Lunch - Adjourn to Joint Expo for Lunch Buffet



REGISTRATION DEADLINE:

January 21, 2015

CANCELLATION POLICY

If MWEA cancels, full refunds will be issued. If registrant cancels 10 days or more before program, a 100% refund will be issued. If cancellation is less than 10 days before program, fees based on expenses will apply. No refunds are made if cancellation is after program date. Registration can be transferred to another person in your organization anytime. Communicate any changes to the MWEA office at 517-641-7377.

LOCATION & PARKING

Lansing Center

333 E. Michigan Avenue,
Lansing, MI 48933

Parking is available behind/under the Lansing Center (off Cedar Street) and in the North Grand Avenue Ramp, connected to the Lansing Center via the pedway.

REGISTRATION, PAYMENT AND ADDITIONAL INFORMATION, CONTACT:

MWEA Office
PO Box 397 Bath, MI 48808
Phone: 517-641-7377
Fax: 517-641-7388
mwea@mi-wea.org
www.mi-wea.org



SCAN THIS CODE TO ACCESS FULL SEMINAR INFORMATION ONLINE!

OPERATORS' DAY REGISTRATION FORM

Fill out the information below or register online at: www.mi-wea.org

Name _____ Employer _____

Address _____

City _____ State _____ Zip _____

Telephone () _____ Fax () _____

Email _____

*email address is REQUIRED in order to receive a registration confirmation.

Date(s) attending, circle one: Feb 3 (\$95.00) Feb 4 (\$95.00) Both Days (\$190.00)

CEC Credit CHECK ONE

DW = Drinking Water WW = Waste Water Treatment
 Check one: DW only WW only Both (DW & WW)

Drinking Water Operator ID#: _____

Check all that apply:

- | | | | |
|---|-------------------------------------|---------------------------------------|-------------------------------------|
| <input type="checkbox"/> Municipal | <input type="checkbox"/> Industrial | <input type="checkbox"/> Distribution | <input type="checkbox"/> Collection |
| <input type="checkbox"/> Plant Operations | <input type="checkbox"/> Management | <input type="checkbox"/> Maintenance | <input type="checkbox"/> Other |
| <input type="checkbox"/> Vendor | <input type="checkbox"/> Consultant | <input type="checkbox"/> Contractor | |

****PLEASE NOTE** Registrations received by mail or FAX without payment (check, money order or purchase order no.) will be processed only after the registration deadline, space permitting.**

Please send to MWEA, PO Box 397, Bath, MI 48808

- Check Enclosed Payable to *MWEA \$ _____ * new method of payment
 Check not enclosed - PO# _____

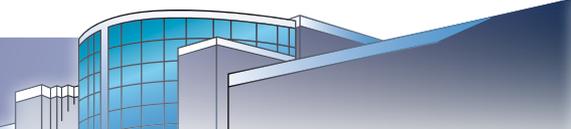
Credit Card Payment

- Charge \$ Visa MasterCard American Express

Account: _____ Exp: _____

Please enter billing address of credit card below: _____

Signature: _____



FLOOR PLAN

Exhibitor set up

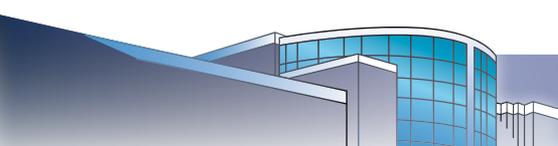
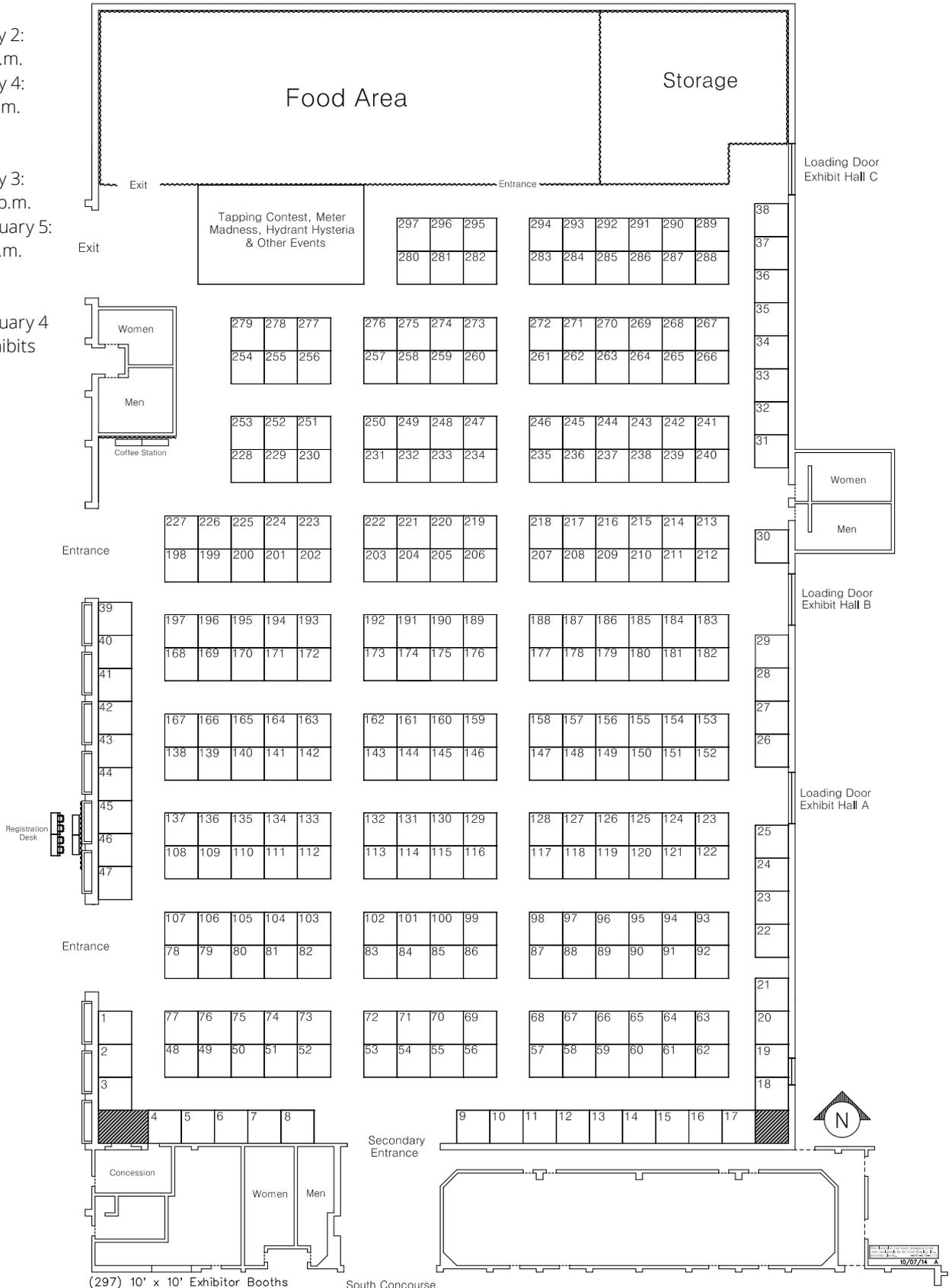
Monday, February 2:
4:00 p.m. - 8:00 p.m.
Tuesday, February 4:
7:00 a.m. - 9:30 a.m.

Show hours

Tuesday, February 3:
10:00 a.m. - 4:00 p.m.
Wednesday, February 5:
9:00 a.m. - 3:00 p.m.

Breakdown

Wednesday, February 4
to begin after exhibits
close at 3:00 p.m.



EVENTS

MICHIGAN SECTION WATER MAIN TAPPING CONTEST



Tuesday, February 3, 1:00 - 4:00 p.m.

The MI-AWWA Water Main Tapping Contest will once again be held during Joint Expo. A large staging area has been set aside in the Northwest corner of the Exhibit Hall, adjacent to the food area. This spirited competition is a high-energy contest where three person teams race against the clock to drill into a cement-lined ductile iron pipe by hand and install a tap connected to a simulated water service. Teams will begin competition at 1:00 PM on Tuesday and run until finished later that same day. We expect several teams to participate this year; there will be plenty of good viewing from all sides of the stage.

For those that are attending Joint Expo, please stop by the contest to see for yourself what all the excitement is about and to root for your favorite team in their attempt to be the fastest tappers in Michigan. The winning men's team and women's team have the opportunity to compete at the AWWA ACE15 which will be held in Anaheim, CA this year in June.

We are once again looking for additional teams, both men and women, to compete in this contest. For additional information or to register a team, contact; Mike Schlegelmann at 248-524-3497 or schlegelmm@troymi.gov or Remecho Sanders at 517-897-5982 or ras@lbwl.com.

SCAVENGER HUNT

Tuesday, February 3,
11:30 a.m. - 4:00 p.m.

Organized by the MI-AWWA Young Professionals and the MWEA New Professionals, the scavenger hunt is

a team event to help new and young water professionals engage exhibitors. Sponsored by EJ and Michigan Meter along with the support from numerous other exhibitors, each four-person team has a chance to win a prize. Prizes will be awarded to the team with the most creative team name, best photos, and most points. This year's items list will be available at the Joint Expo Check-In Desk. Awards will be given during the Joint Expo Mixer at the Nuthouse (across Michigan Ave. from the Lansing Center) from 4:00 until 6:00. Must be present to win.



METER MADNESS

Wednesday, February 4,
11:00 a.m. - 2:00 p.m.

Check out the Meter Madness competition at Joint Expo on Wednesday, February 4, where

competitors test their skills in a timed effort to assemble a water meter from a bucket of parts. Careful, there may be an extra part or two in the bucket just to throw you off! As with the Tapping Contest, the winners of the MI-AWWA competition will have the opportunity to compete at the AWWA ACE15 which will be held in Anaheim, CA this year in June. Improve your chances of winning; order a practice meter now at: www.mastermeter.com/en/meter-madness.html.

IN-BOOTH PRESENTATIONS

Wednesday, February 4,
1:30 p.m. and 2:15 p.m.

Presentations will be given at selected booths on Wednesday only. Each presentation will be 25 minutes in length, allowing 5 minutes for questions and answers; they will be "demonstration based" training for technical items. Participating vendors will give each presentation twice; first at 1:30 P.M. and then again at 2:15 P.M. MDEQ has approved 0.1 "Technical" CECs for those attending two different sessions. This CEC credit will be in addition to the credit already approved and available for Operators' Day and

for attending the Trade Show itself. As a result, a certified drinking water or wastewater operator attending Joint Expo/Operator's Day on Wednesday, could receive up to 0.6 CECs! Those who also attend Operators' Day on Tuesday can pick up an additional 0.3 CECs, for a two-day total of 0.9 CECs. More information about the presentations will be available during the Operator's Day Session on Wednesday and at the Joint Expo registration desk.

HYDRANT HYSTERIA

Wednesday, February 4, 1:00 p.m.

The Michigan Section AWWA will be demonstrating a new and exciting contest; Hydrant Hysteria, which will be held in the exhibit hall Event Area. Hydrant Hysteria is a fast paced and exciting contest consisting of a two person team assembling a fire hydrant as quickly as they can. It is similar to Meter Madness, except on a larger scale. At press time, we were lining up 3 or 4 teams for the contest. Stop by and check out this new event!

MI-AWWA / MWEA JOINT EXPO ROUNDTABLE

For Student and Young Professionals
Tuesday, February 3,
11:00 a.m. - 1:00 p.m.

Lansing Center

Governor's Room (2nd Floor)

This is a great opportunity to join with young professionals and other water and wastewater professionals as we converse on topics of interest within our industries.

Please email your RSVP by January 16, 2015 to Matt Parks if you wish to attend.

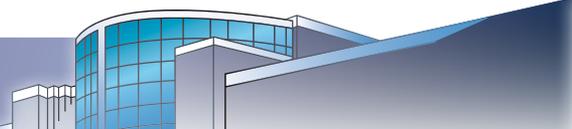
MI-AWWA YOUNG PROFESSIONALS AND MWEA NEW PROFESSIONALS HOST ANNUAL JOINT EXPO MIXER

Tuesday, February 3,
4:00 p.m. - 6:00 p.m.

Free food and drinks

Location:

Nuthouse Sports Grill
420 E. Michigan Ave., Lansing, MI



EXHIBITORS

A.Y. McDonald Mfg. Co

Frank Palmisano
(586) 226-3257
fpalmisano@aymcdonald.com

ADS Environmental Services

Christopher Skehan
(708) 341-9701
cskehan@idexcorp.com

Advanced Underground Inspection

Jeana Garcia Moir
(734) 721-0081
jeana_avi@yahoo.com

AIS Construction Equipment

Jeff Ely
(517) 321-8000
jely@aisequip.com

Alexander Chemical

Darlene Devereaux
(517) 719-1140
darlene.devereaux@alexanderchemical.com

American Flow Control

Jim Daily
(317) 345-8450
jdaily@american-usa.com

Anterior Quest

Nate Koster
(616) 283-7994
nate@anteriorquest.com

Aqua-Line, Inc.

Roger Darnall
(419) 408-5152
mebstrpn@aol.com

Badger Meter, Inc.

Kayla Schultz
(414) 371-5801
kschultz@badgermeter.com

Bell Equipment Company

Daniel Bell
(248) 370-0000
dbell@bellequip.com

Bilfinger Airvac Water Technologies

Jim Docherty
(412) 576-6245
jim.docherty@bilfinger.com

Bluewater Engineered Storage Systems

Mark Nelson
(810) 429-0649
mnelson@bluewaterstoragesystems.com

Boerger, LLC

Larry Montgomery
(612) 435-7300
mja@boerger.com

C+S Solutions, Inc.

Rick Kleopfer
(513) 608-5063
rick@locatorguys.com

Caldwell Tanks, Inc.

Diane Werle
(502) 964-3361
dwerle@caldwelltanks.com

CB&I Inc.

Michael Allison
(815) 439-3112
mallison@cbi.com

CGS Safety Training, Inc.

David Maloney
(248) 477-6327
suzanne@cgsdirect.com

Commerce Controls, Inc.

Jeff Krawczyk
(248) 522-0443
jskrawczyk@commercecontrols.com

Corrpro Companies, Inc.

James Lary
(330) 241-6615
jlary@corrpro.com

Cummins Bridgeway

Brian Trombly
(989) 370-2523
brian.trombly@cummins.com

Dave Ray & Associates

Mark Johnson
(248) 280-1111
markj@georgeinstrument.com

Delta College

Ronald Sharp
(989) 686-9071
rlsharp@delta.edu

Detroit Pump & Mfg. Co.

Gary Maley
(248) 544-4242
gary.maley@detroitpump.com

Dixon Engineering, Inc.

Ira Gabin
(616) 374-3221
cherilaverty@dixonengineering.net

DN Tanks, Inc.

Dan McVay
(614) 777-9886
dan.mcvay@dn tanks.com

DuBois-Cooper Associates, Inc.

Joe Moore
(734) 455-6700
jmoore@duboiscooper.com

Duke's Root Control, Inc.

Bob Hunn
(315) 472-4781
Lynn@dukes.com

EJ

Dave Plooster
(616) 299-6730
dave.plooster@ejco.com

Engineered Pump Inc

Walt Cuppetelli
(586) 741-9128
waltc@engineered-pump.com

Environmental Sales

Eric Schiebold
(248) 569-9393
eschiebold@aol.com

FER-PAL Construction

Chris Van Wormer
(734) 624-5321
chris.vanwormer@ferpalinfrastructure.com

Fishbeck, Thompson, Carr & Huber

Christopher Frilen
(616) 464-3715
crfrilen@ftch.com

Fleis & VandenBrink

Debi Turley
(616) 977-1000
dturley@fveng.com

Fluid Process Equipment/Sunsource

Patti Gallardo
(630) 317-2744
pgallardo@sunsrce.com

Ford Meter Box

Tim Babb
(260) 224-1618
tbabb@fordmeterbox.com

Gray Matter Systems

Mark Meisel
(412) 741-2410
mmeisel@graymattersystems.com

Hach Company

Bridget Sawmiller
(248) 885-4853
bsawmill@hach.com

Hamlett Environmental

Jennifer Zelski
(517) 294-7512
jenz@hamlettenvironmental.com

HESCO

Marisa Bennett
(586) 978-7200
marisa@hesco-mi.com

Hydrosource, Inc.

David Kramer
(440) 247-9150
sales@hydrosourcesales.com

IDEXX Laboratories, Inc.

Jamie Brunelle
(800) 321-0207
jamie-brunelle@idexx.com

J.G.M. Valve Corp.

Barbara Maruskin
(248) 926-6200
contact@jgmvalve.com

Jack Doheny Companies

Bob Pflibsen
(248) 349-0904
bobpflibsen@dohenycompanies.com

JCM Industries, Inc.

Jennifer Futrell
(903) 832-2581
jfutrell@jcmind.com

JETT Pump & Valve

Paul Marchi
(248) 673-2530
paulm@jettump.com

KAR Laboratories, Inc.

Jayne Rauch
(269) 381-9666
jrauch@karlabs.com

Kemira Water Solutions, Inc.

Candace Chouinard
(514) 867-9316
candace.chouinard@kemira.com

Kennedy Industries

Mark Hemeyer
(248) 684-1200
mjh@kennedyind.com

Kerr Pump & Supply

Glenn Kline
(248) 543-3880
glenn@kerrpump.com

Kraft Power

Mike McDonald
(231) 734-0501
mmcdonald@kraftpower.com

Kupferle Foundry Company

Stephen Hoerr
(314) 369-6401
steveh@hydrants.com

L.D. Docsa Associates, Inc.

Jim McIntyre
(269) 349-7675 104
jmciintyre@lddocsa.com

LiquiForce Services

John Thompson
(734) 231-6691
jthompson@liquiforce.com

Mattoon & Lee Equipment

Mike Heath
(248) 478-4070
mheath@mattoon-lee.com

Michigan Pipe & Valve

Jonathan Jaime
(989) 752-7911
theresa.jaime@michiganpipe.com

Michigan Rural Water Association

Tim Neumann
(989) 539-4111
tneumann@mrwa.net

Michigan Section AWWA

Eric Way
(517) 627-0913
eway.wwa@gmail.com

Midwest Municipal Instrumentation

James Mommers
(517) 764-4736
jmommersmmi@msn.com

Midwest Utility Sales and Marketing

Steve Boyer
(574) 606-8320
steve@musm1.com

Milan Supply

Dave Mitchell
(269) 217-2828
dmitchell@milansupply.com

MTech Company

Justin Cira
(440) 646-0996
jcira@mttechcompany.com

MWEA Biosolids Committee

Stephen Mahoney
(517) 284-5620
mahoneys@michigan.gov

Never Gall

Stanton Walter
(574) 532-2581
swalter@nevergall.com

New Century Sales, Inc.

Michael Zago
(248) 960-1147
sandyw@newcenturysales.com

Northern Pump & Well

Dale Stewart
(517) 322-0219
dstewart@northernpwco.com

Paragon Laboratories, Inc.

ShaneVan Wasshova
(734) 469-5621
shanev@paragonlaboratories.com

Peerless-Midwest, Inc.

Mike Williams
(616) 527-0050
rhonda.coulier@peerlessmidwest.com

Peterson and Matz, Inc.

Kyle Bentley
(248) 476-3204
Kylepmi@aol.com

Pipeline Analytics

Tim Mallon
(412) 335-8271
tmallon@pipelineanalytics.com

PPG Paints

Dan Perrault
(248) 640-0338
dperrault@ppg.com

Process Control Services

Deanna Eff
(734) 646-3510
deff@processcontrolservices.com

Professional Pump, Inc.

Michael O'Donohue
(734) 394-7878
modonohue@professionalpump.com

Pro-Tec Equipment

Tommy Marciniak
(517) 317-4680
tommy.marciniak@trin.net

Pumps Plus Inc.

Matthew Prosoli
(248) 888-9004
pumpsplus@mi.rr.com

Reed Manufacturing Company

Jeff Esmont
(814) 452-36911107
jmachinski@reedmfgco.com;
mballiett@reedmfgco.com

ROWE Professional Services Co.

Douglas Scott
(810) 341-7500
Dscott@rowepsc.com

RS Technical Services

Bob Seif
(616) 897-7041
bobseif@rstechservices.com

Safety Services, Inc.

Amy Flores
(269) 226-2007
alf@safetyservicesinc.com

Sherwin-Williams

Ken Maskal
(616) 293-0415
swrep6207@sherwin.com

Smith-Blair, Inc.

Mike Rullo
(614) 886-2606
mike.rullo@smith-blair.com

Solberg-Knowles

Jim Solberg
(231) 652-1934
jsolberg@solbergknowles.com

Source One Environmental (S1E)

Chad Miller
(989) 295-2138
cmiller@s1online.com

SpectraShield Liner Systems

Kevin Appel
(419) 636-2684
gary@artcoatingtech.com

SW Controls, Inc.

Abigail Viane
(248) 536-9700
aviane@swcontrols.net

Systems Specialties

Frank Taube
(248) 332-0099
ftaube3@syssspec.com

Terra Contracting LLC

Dave Balogh
(313) 695-1047
dbalogh@terracontracting.net

Therma-Stor/Quest

Mike Carr
(608) 237-8485
mcarr@questprotect.com

Underground Pipe & Valve

Dan Carey
(260) 483-1457
dcarey@upvinc.com

Underground Solutions

Chet Allen
(724) 353-3000
grock@undergroundssolutions.com

United Systems & Software, Ltd.

Steve Flaherty
(260) 915-3800
stevef@united-systems.com

Utilities Instrumentation Service

John Patry
(734) 424-1200
stephanie.trombley@uiscorp.com

VEGA Americas, Inc.

Jillian Sample Hayes
(513) 272-0131
j.samplehayes@vega.com

Waterworks Systems

Chuck Kronk
(810) 231-1200 12
ckronk@waterworkssystem.com

Xylem Dewatering Solutions

Mark Coger
(440) 357-6868
mark.coger@xylem.com



ACE¹⁵

ANNUAL CONFERENCE & EXPOSITION

June 7-10, 2015
Anaheim, CA
www.awwa.org/ace15

Co-hosted by

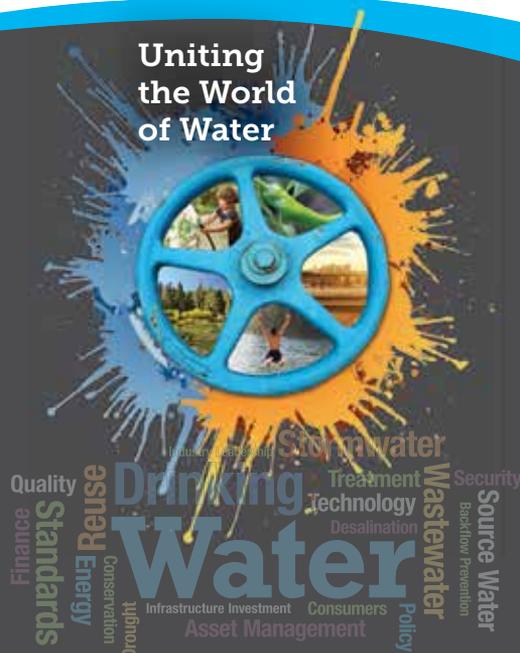


Register by March 29, for the Best Rates!

ACE15 provides an environment for all water professionals to present and discuss solutions for the most pressing water utility challenges. Nowhere else can you find a similar experience where experts from around the world provide leadership and guidance for the future of our water.

For a full agenda, visit www.awwa.org/ace15

Uniting
the World
of Water





American Water Works Association
Michigan Section

PRESENTS

Cyber Security for Michigan Utilities

If you are responsible for protecting the assets of your facility from cyber attacks, then don't miss this timely seminar. This is a great opportunity to hear directly from one of the foremost experts on cyber security.



The seminar will focus on the use of the newest version of the Department of Homeland Security's Cyber Security Evaluation Tool, or CSET. This is a self-assessment DVD software application for performing security reviews of industrial control and enterprise network systems.

Who

Cyber security expert Dan Berrett will review the latest DHS cyber security general recommendations and the CSET. The CSET is designed to create information that assists users in resolving identified weaknesses in their networks and in improving their overall security posture.

When and Where

Two convenient dates and times
January 20, 2015
at Meijer Gardens
in Grand Rapids, MI
9:00 am – 11:30 am

January 22, 2015
at McNaughton-McKay
in Madison Heights, MI
9:00 am – 11:30 am

Added Bonus

Attendees will receive the latest version of the CSET DVD for their own use. Stick around afterward for networking with colleagues and more Q&A with security experts. Light lunch included with registration.

Cost \$45

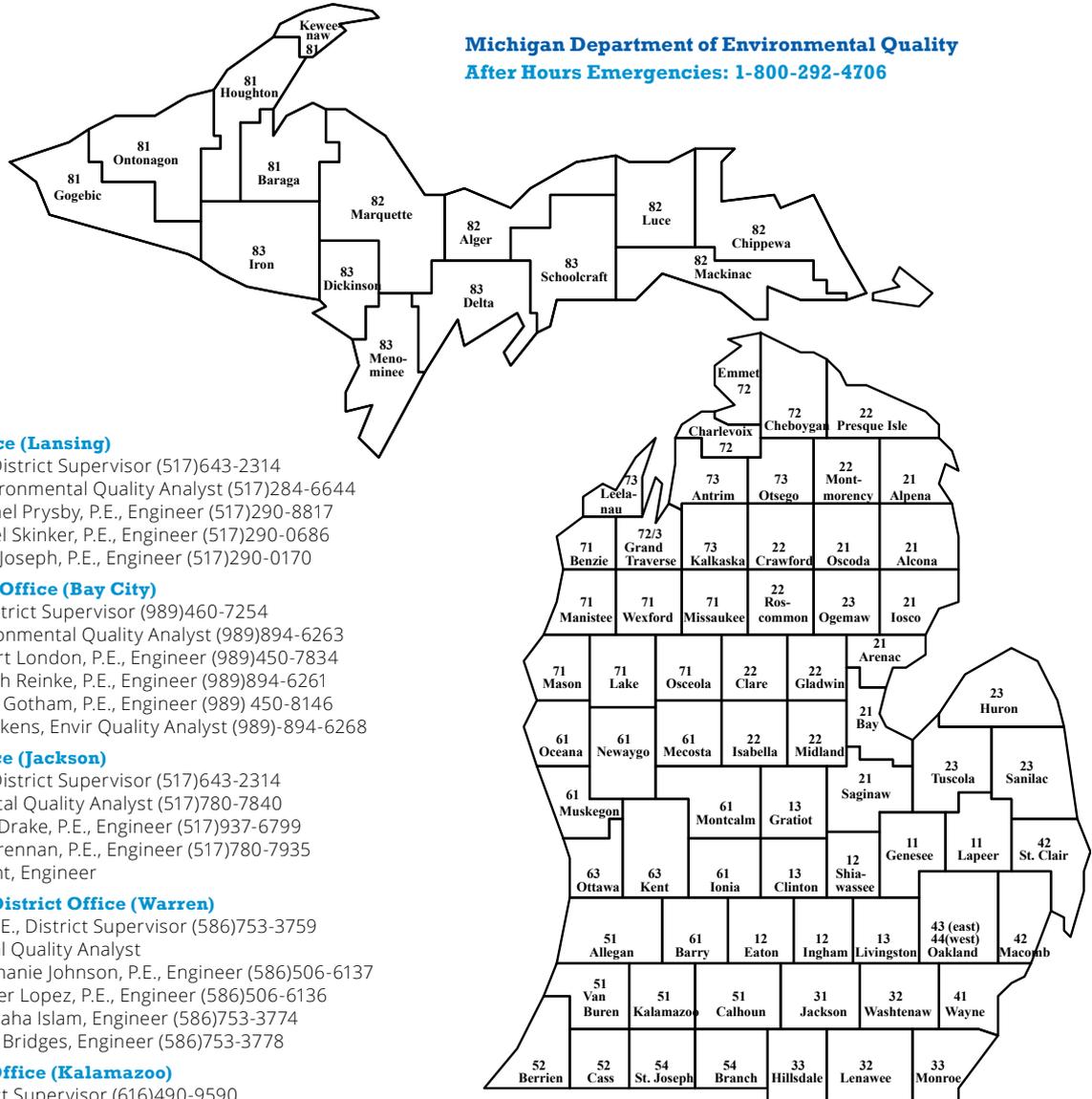
Registration opens January 1 online at www.mi-water.org.

Hosted by the MI-AWWA Water Systems Security Task Force

Sponsored in part by **Rockwell
Automation**

COMMUNITY WATER SUPPLY PROGRAM

Michigan Department of Environmental Quality
After Hours Emergencies: 1-800-292-4706



Lansing District Office (Lansing)

Stephen Busch, P.E., District Supervisor (517)643-2314
 Adam Rosenthal, Environmental Quality Analyst (517)284-6644
 District 11 - Michael Prysby, P.E., Engineer (517)290-8817
 District 12 - Bethel Skinker, P.E., Engineer (517)290-0686
 District 13 - Mark Joseph, P.E., Engineer (517)290-0170

Saginaw Bay District Office (Bay City)

Jon Bloemker, P.E., District Supervisor (989)460-7254
 Rebecca Kaiser, Environmental Quality Analyst (989)894-6263
 District 21 - Robert London, P.E., Engineer (989)450-7834
 District 22 - Joseph Reinke, P.E., Engineer (989)894-6261
 District 23 - Daryl Gotham, P.E., Engineer (989) 450-8146
 MHC* - Todd Brookens, Envir Quality Analyst (989)-894-6268

Jackson District Office (Jackson)

Stephen Busch, P.E., District Supervisor (517)643-2314
 Jeff Antil, Environmental Quality Analyst (517)780-7840
 District 31 - Jerry Drake, P.E., Engineer (517)937-6799
 District 32 - Pat Brennan, P.E., Engineer (517)780-7935
 District 33 - Vacant, Engineer

Southeast Michigan District Office (Warren)

Kristina Donaldson, P.E., District Supervisor (586)753-3759
 Vacant, Environmental Quality Analyst
 District 41 - Stephanie Johnson, P.E., Engineer (586)506-6137
 District 42 - Amber Lopez, P.E., Engineer (586)506-6136
 District 43 - Abuzaha Islam, Engineer (586)753-3774
 District 44 - Jaiye Bridges, Engineer (586)753-3778

Kalamazoo District Office (Kalamazoo)

Amy Lachance, District Supervisor (616)490-9590
 Vacant, Environmental Quality Analyst
 District 51 - Wood Chooi, P.E., Engineer (269)567-3611
 District 52 - Gary Wozniak, P.E., Engineer (269)491-3107
 District 54 - Katelyn Reyes, Engineer (269)216-1691
 MHC* - Debbie Smith Ostrander, Envir Quality Analyst (269)491-4536

Grand Rapids District Office (Grand Rapids)

Amy Lachance, District Supervisor (616)490-9590
 Jeremy Klein, Environmental Quality Analyst (616)250-1053
 District 61 - Ernie Sarkipato, P.E., Engineer (616)307-0261
 District 63 - Luke Dehtiar, P.E., Engineer (616)307-0322
 MHC* - Brian Esparsa, Envir Quality Analyst (616)307-0006

Cadillac District Office (Cadillac)

Jon Bloemker, P.E., District Supervisor (989)460-7254
 Krista Robinson, Environmental Quality Analyst (231)876-4481
 District 71 - Scott Conradson, Engineer (231)876-4461
 District 72 - Brian Thurston, P.E., Engineer (231)590-3430
 District 73 - Brad Slater, P.E., Engineer (231)876-4482

* MHC = Manufactured Housing Communities

Upper Peninsula District Office (Marquette)

Chuck Thomas, District Supervisor (906)228-4514
 John Clark, Environmental Quality Analyst (906)228-3902
 District 81 - Doug Pascoe, P.E., Engineer (906)228-3903
 District 82 - Michael Bolf, P.E., Engineer (906)630-4107
 District 83 - Scott Swenor, P.E., Engineer (906)228-3905

Community Drinking Water Unit (Lansing)

Richard Benzie, P.E., Unit Chief (517)284-6512
 Patrick Cook, P.E., Water Treatment Specialist (517)284-6514
 Brant Fisher, P.E., Environmental Engineer Specialist (517)284-6515
 Kristen Philip, Environmental Quality Specialist (517)284-6518
 Jean Shekter, Environmental Quality Analyst (517)284-6519
 Jason Berndt, Environmental Quality Analyst (517)284-6513
 Wayne Kukuk, Geologist (517)284-6517

Community Water Website: www.michigan.gov/deq

Click on Water > Drinking Water > Community Water Supply



DEQ EMPLOYEE SPOTLIGHT



Liane J. Shekter Smith has been with the Department of Environmental Quality for 25 years and is currently Chief of the Office of Drinking Water and Municipal Assistance. She has served as Michigan's drinking water administrator since 2010.

Previous responsibilities include work as a permit engineer in the Hazardous Waste Program, Kalamazoo District Supervisor in both the Leaking Underground Storage Tank Program and the Community Water Supply Program; Section Chief of the Radiological Protection and Hazardous Waste Programs; Assistant Division Chief of the Waste and Hazardous Materials Division; and Chief of the Resource Management Division.

Liane holds two Bachelor of Science in Engineering degrees and a Master of Science in Environmental Health Science from the University of Michigan (Go Blue!). Liane is a licensed professional engineer.

Liane and her husband of nearly 30 years (he's retired) have a grown son that lives in Kalamazoo, share their home with a goofy miniature Bull Terrier and are responsible for the care and maintenance of a buckskin mare. Liane's hobbies include camping, trail riding and kayaking spring through fall; and jigsaw puzzling in the winter.

NEW RULES UPDATE

by Jean Shekter, DEQ

The proposed changes to the rules, called Supplying Water to the Public, is moving through the State promulgation process to incorporate the Revised Total Coliform Rule provisions required by the U.S. Environmental Protection Agency. With stakeholder input, the rules were drafted in September. The proposed amendments are currently undergoing regulatory and legislative review. Once completed, a Public Hearing will be scheduled. This is one more opportunity to provide comment on the proposed rules. Look for the Notice of Public Hearing on the DEQ Environmental Calendar at www.michigan.gov/envcalendar.

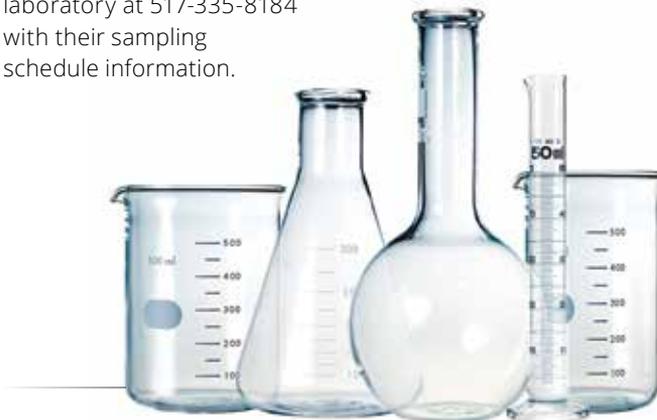
In addition to incorporating the RTCR provisions, the rule package includes proposed changes to the cross connection rules, asset management planning, and the deadlines to submit operator examination applications. The proposed rules also remove the water quality report requirement applicable to K12 schools and daycare centers that are non-transient noncommunity water systems. The DEQ considered including operations oversight provisions, but stakeholders believed it was not necessary at this time.

For more information on the rule package, visit <http://www.michigan.gov/deqwater>, click on Drinking Water, Community Water Supply, and Rule Promulgation under the Laws and Rules category.

DEQ LABORATORY NEWS

The DEQ laboratory will be closed Monday, January 19, 2015 (Martin Luther King Jr. Day) and Monday, February 16, 2015 (Presidents' Day).

If you are currently part of the subscription program for the Disinfection Byproducts Rule, please be sure to update your sampling schedule for 2015. Water supplies can schedule to receive sampling kits for TTHM/HAA5 sampling automatically by calling the laboratory at 517-335-8184 with their sampling schedule information.



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WELCOME NEW MEMBERS

The Michigan Section, AWWA would like to extend a warm welcome to our newest members.

Bob Dion	Michael Daniels	Robert Larkin	Rachael Barlock
Joy Stothard	David Malak	Jennifer Hamel	Karl Gust
Terry Kilburn	Kristopher Embry	Kevin E Haywood	Craig Marietti
Jodie K. Szabo	Fred E Cowles	Kelly Gleason	Mike Tracy
Erik Kleiman	John Patrick Anderson, Esq.	Eric S. Westra	Phillip Miller
Brianna Juhrend	Jonathan Jaime	Bridget Sawmiller	Tim Hemingway
Nicole Spieies	Jeremy Everson	Kerry Laycock	Alexis D. Edge
Justin Zaleski	Christopher Rumsey	Mike Anderson	Paul Kanaski
Robert Bincsik	Terry Samann	Sanjeev Verma	
Russell M. Face	Jennifer Drinan	John Keyes	Village of Jonesville
Jason Daniel Mayer	Steve Drotoz	David Diem	Ishpeming Township
James Frederick Burton	Dynita McCaskill	Rod Smith	City of Rockford
James Power	Justin Jaime	Bonnifer J. Ballard	Village of Spring Lake
Austen Tyrer	Timothy Kruse	Derek Ambs	Village of Romeo
Donna Denise	Jay Zawacki	Chris McCarthy	J Crew Underground
Gail Clow	Tom Horrocks	Sally Duffy	Contractors
Daugherty A. Johnson	Kate E. Gillespie	Manual Navarro	

If you know of someone who is interested in membership in the Michigan Section, AWWA you can send them to our website for a membership application, or you can have them contact our Membership Recruitment and Engagement Council chairs, Mike Williams (mike.williams@peerlessmidwest.com) or Tina Pawlak (tpawlak@hollandbpw.com).

2015 CERTIFICATION AND TRAINING CALENDAR

(CHRONOLOGICAL ORDER)

DRINKING WATER OPERATOR TRAINING COURSES AND ACTIVITIES OPERATOR TRAINING AND CERTIFICATION PROGRAM

Activity Name	Registration Fee	Registration Deadline
Cross Connection Seminar – Basic • February 26 – Lansing	Contact MI-AWWA	To register, contact: www.mi-water.org
Basic Math & Hydraulics Short Course • March 3-5 – Gull Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Water Treatment Short Course I • March 24-26 – Gull Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Water Treatment Short Course II • March 30 - April 1 – Higgins Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Limited Treatment Short Course • March 30 - April 1 – Higgins Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Drinking Water Advisory Board Meeting • April 16 – Lansing	N/A	N/A
Community Drinking Water & Type II Level 5 Drinking Water Certification Exams May 6 – Central MI, East MI, West MI, Northern Lower MI, Southeast MI, Southwest MI, Upper Peninsula	Exams Offered F-1 D-1 S-1 F-2 D-2 S-2 F-3 D-3 S-3 F-4 D-4 S-4 F-5 D-5 S-5	\$70.00 for each Level 1-4 Exam \$45.00 for each Level 5 Exam Postmarked by March 16
Basic Math & Hydraulics Short Course • September 1-3 – Higgins Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Cross Connection Seminar – Advanced • September 10 – Lansing	Contact MI-AWWA	To register, contact: www.mi-water.org
Distribution System Short Course • September 28-30 – Higgins Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Distribution System Short Course • October 13-15 – Gull Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Limited Treatment Short Course • October 13-15 – Gull Lake	Contact MI-AWWA	To register, contact: www.mi-water.org
Drinking Water Advisory Board Meeting • October 29 – Lansing	N/A	N/A
Community Drinking Water & Type II Level 5 Drinking Water Certification Exams November 4 – Central MI, East MI, West MI, Northern Lower MI, Southeast MI, Southwest MI, Upper Peninsula	Exams Offered F-1 D-1 S-1 F-2 D-2 S-2 F-3 D-3 S-3 F-4 D-4 S-4 F-5 D-5 S-5	\$70.00 for each Level 1-4 Exam \$45.00 for each Level 5 Exam Postmarked by September 14



2015 MI-AWWA TRAINING CALENDAR

FEBRUARY

- 3-4** Joint Expo 2015 at Lansing Center in Lansing with MWEA
- 3-4** Operators' Day at Lansing Center in Lansing with MWEA
- 3-4** Infrastructure/Financing Seminar at Lansing Center in Lansing with MWEA
- 19-20** Groundwater Conference at Michigan State University Kellogg Center in East Lansing
- 26** Cross Connection Seminar – Basic at Lansing Community College–West in Lansing with MDEQ

MARCH

- 3-5** Basic Math & Hydraulics Short Course at Gull Lake Conference Center in Hickory Corners with MDEQ
- 10-12** Short Course in Water Chemistry at Michigan State University in East Lansing
- 24-26** Water Treatment Short Course I at Gull Lake Conference Center in Hickory Corners with MDEQ
- 30-Apr 1** Limited Treatment Short Course at the RAM Center, Higgins Lake in Roscommon with MDEQ
- 30-Apr 1** Water Treatment Short Course II at the RAM Center, Higgins Lake in Roscommon with MDEQ
- TBD** Small Systems – Rate Setting date and location TBD with EFC

APRIL

- 14-15** U.P. Water Works Institute at Terrace Inn in Gladstone
- 14** Spring Regional Meeting at Laurel Manor Conference Center in Livonia
- 15** Spring Regional Meeting at Western Michigan University Fetzer Center in Kalamazoo
- 21** Spring Regional Meeting at Otsego Club & Resort in Gaylord
- 22** Spring Regional Meeting at Comfort Inn & Suites in Mt. Pleasant

MAY

- 12-14** Short Course in Water Bacteriology at Michigan State University in East Lansing
- 20** Distribution System Practices Seminar at Eagle Eye in Bath
- TBD** Small Systems Seminar date and location TBD with RCAP

JUNE

- 2** Water Security Summit at Eagle Eye in Bath
- TBD** Small Systems Institute date and location TBD

SEPTEMBER

- 1-3** Basic Math & Hydraulics Short Course at the RAM Center, Higgins Lake in Roscommon with MDEQ
- 10** Cross Connection Seminar – Advanced at Lansing Community College–West in Lansing with MDEQ
- 15-16** U.P. Distribution Seminar in conjunction with the MI-AWWA Annual Conference at Kewadin Casino in Sault Ste. Marie
- 15-18** MI-AWWA Annual Conference & Exhibits at Kewadin Casino in Sault Ste. Marie
- 28-30** Distribution System Short Course at the RAM Center, Higgins Lake in Roscommon with MDEQ

OCTOBER

- 6** Fall Regional Meeting at Laurel Manor Conference Center in Livonia
- 7** Fall Regional Meeting at Western Michigan University Fetzer Center in Kalamazoo
- 13-15** Distribution System Short Course at Gull Lake Conference Center in Hickory Corners with MDEQ
- 13-15** Limited Treatment Short Course at Gull Lake Conference Center in Hickory Corners with MDEQ
- 20** Fall Regional Meeting at Otsego Club & Resort in Gaylord
- 21** Fall Regional Meeting at Comfort Inn & Suites in Mt. Pleasant
- TBD** Health & Safety Seminar at Eagle Eye Golf Club in Lansing, date TBD with MWEA

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CDM
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John Gandolfi
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DRINKING WATER REVOLVING FUND INSTRUMENTAL IN HELPING BENZONIA WATER SUPPLY

By David J. Worthington, MDEQ

A low-interest loan from the Drinking Water Revolving Fund (DWRf) continues to be an attractive option for many communities that seek financing to improve their aging drinking water infrastructure. The Village of Benzonia in Benzie County is a recent example. A disadvantaged community based on various economic criteria, including median annual household income, Benzonia simply could not afford to undertake improvements without getting outside help. The village was facing several needs, including a well that was experiencing a noticeable degradation in pump capacity and aesthetic water quality in recent years, undersized water mains with multiple dead ends, and a water tank in dire need of recoating. By preparing a project plan and submitting an approved application to the DWRf, Benzonia succeeded in having its planning costs

reimbursed through a technical set-aside grant available to disadvantaged communities. In addition, \$100,000 of the \$615,000 loan project cost will be “forgiven” (i.e. not calculated in the principal payback schedule) to provide further relief to water customers. A below market interest rate of 2.5% was secured for the loan balance.

The MDEQ accepts applications for the DWRf at any time. We would be glad to come to your community to discuss the feasibility of developing a project plan. Each year, May 1 is the cutoff date for applicants to submit their project plans for the next fiscal year funding cycle.

For further information, contact us by mail at DEQ, Office of Drinking Water and Municipal Assistance, Revolving Loan Section, P.O. Box 30241, Lansing, Michigan 48933; by phone at 517-284-5433; or visit us on the web at www.michigan.gov/drinkingwaterrevolvingfund.

PLAN TO ATTEND SPRING REGIONAL MEETINGS

Each year, the Section holds regional meetings around Lower Michigan. The Spring Regional Meetings are a great way to stay current with the latest in water treatment practices and regulations in Michigan. These one-day seminars cover a variety of topics and are a great way to obtain continuing education credits.

More than 400 water professionals from around the state attend these highly rated programs each year. It is anticipated that 0.5 technical CECs will be available for attendees again this spring.

Also, the Drinking Water Taste-Off contest is held at each meeting site. You or someone from your community can bring a sample of water to enter the contest. Samples should be in a clean, clear, glass quart canning jar, and be at room temperature. Each community can only enter at one site. Winners will earn the right to compete in the finals to determine the “Best Tasting Water in Michigan.”

The program at Spring Regional Meetings is great for operators, supervisors, managers, and engineers. Be sure to join your fellow drinking water professionals this spring at one of these informative meetings.

April 14 – in Livonia at Laurel Manor Conference Center

April 15 – in Kalamazoo at Western Michigan University Fetzer Center

April 21 – in Gaylord at Otsego Club & Resort

April 22 – in Mount Pleasant at Comfort Inn & Suites

MI-AWWA AWARDS \$1,000 HIGH SCHOOL SENIOR ACADEMIC SCHOLARSHIP

At the 2014 MI-AWWA Annual Conference Awards Luncheon, Haleigh Hielkema’s name was drawn from eight eligible applicants as the winner of the \$1,000 scholarship. Haleigh is attending Grand Valley State University and is the daughter of Mike Hielkema. Mike is employed with the City of Grand Rapids Water System.

If you are a Michigan Section member with a high school senior that will be graduating in 2015, see below for scholarship details.

- Applicants must currently be a graduating High School Senior student, in their last year of High School.
- Applicants must be the **son or daughter** of a current Michigan Section AWWA member.
- In the fall immediately following their High School graduation, applicants must attend a college, or university, entering their first year of a Two-Year or Four-Year program.
- Applicants must have at least a 3.0 academic average, on a 4.0 GPA academic scale.
- Application packets must be received by July 1st.

To obtain the application form and other information, visit the Section website at: www.mi-water.org.



“REMEMBER THE TITANS”



Yes, the title of this article is a movie title – and not one associated with the water industry. But it is an apt phrase for describing the George Warren Fuller Award. And the Fuller Award committee is seeking your input to ensure the titans of our industry are appropriately recognized. Many of us recognize

names such as Raymond Faust, Edward Rich, Louis Ayres, Robert McNamee, and Jack Borchardt – all figures of prominence in the history of safe drinking water in Michigan. Some of the more recent awardees include Gary Logsdon, Janice Skadsen, Eugene Glysson, Tom Newhof, and James Cleland – all also figuring prominently in ensuring safe drinking water in Michigan, and sometimes on a larger scale.

The George Warren Fuller Award is presented annually by the American Water Works Association to each Section’s selected member 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. You will note in the previous description that this is NOT an award for service to AWWA or the Michigan Section, although that service can contribute to a nominee’s qualifications.

Who comes to mind when you think of “Titans of the Water Industry?” Who do you consider as being critical to the success of your water system and that of others? Who has made a difference to the provision of safe drinking water – whether in Michigan or on a broader scale? We encourage you to consider nominating such a person for consideration. Each year’s awardee is recognized at the Michigan Section’s annual conference, and again at the prestigious Fuller Society Breakfast held during the AWWA annual conference.

Please consider offering your nomination for the George Warren Fuller Award. Nominations can be made via the forms available on the Michigan Section, AWWA home page, or submit a nomination, or any questions or ideas, to Dave Koch, Fuller Award Committee Chair, at kochds@bv.com. Nominations are requested by no later than May 15 of each year. Let’s be sure to “Remember the Titans”!

RESEARCH AND TECHNICAL PRACTICES AWARD NOMINATIONS

Nominations for the 2015 Michigan Section, AWWA Research and Technical Practices (RTP) Award will be accepted until **June 15, 2015**. Eligibility is limited to Michigan water utilities involved in research or technical practices related to water works activities. Nominations can be related to any aspect of a water utility, including but not limited to source water, treatment, performance optimization, bench and pilot scale testing, supervisory control and data acquisition (SCADA), power consumption optimization, etc. The RTP Award Nomination and Description forms are available on the Section web page at <http://www.mi-water.org>.



DC FLY-IN

The AWWA “Water Matters!” Fly-In brings U.S. legislators and AWWA members together to remarkable results. Due in part to the work done by AWWA members at the 2014 Fly-In, the Water Infrastructure Finance Innovation Act (WIFIA) was passed and signed into law. The 2015 Fly-In will be held March 18-19. Sections should begin discerning the members of the delegations to be sent to the event. Be aware that the AWWA Water Utility Council covers reasonable costs attributable to the travel and attendance of one delegate from each state for every 10 members of the House of Representatives that the state has seated. If you are interested in participating, please contact Bonnifer Ballard at bballard@mi-water.org for more information.



HOUSE
1/4 V

28
Eramosa
1/4 V

11
Fluid Process
1/4 V

13
Fischbeck
1/4 V



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6
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1/8 H

14
Greeley & Hansen
1/8 H

16
Williams & Works
1/8 H

17
DN Tanks
1/8 H

23
Black & Veatch
1/8 H

29
ME Simpson
1/8 H

House
1/8 H

30
Leoni
1/8 H



Ad index to come

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Al Whalen, Marketing Manager 1-866-985-9782 awhalen@kelman.ca



3
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15
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