Green Bay Metropolitan Sewerage District

48th Annual W.W.O.A. Conference
October 7-19, 2014 Green Bay, Wisconsin
KI Convention Center
Host: Green Bay Metropolitan Sewerage District
The Clarifier is the publication of the Wisconsin Wastewater Operators’ Association and is intended to inform and educate the membership on issues related to the treatment and control of wastewater. The Clarifier is produced five (5) times each year: February, April, June, September, and December. All members are encouraged to contribute to the mission of the Clarifier.

The Wisconsin Wastewater Operators’ Association is a non-profit organization dedicated to educating, informing, and advancing the wastewater profession. WWOA has approximately 2,000 members divided throughout six regions: Southeast, Southern, Lake Michigan, North Central, Northwest, and West Central.
Presidents message: Thanks and conference update

This will be my last Presidents message to the Clarifier and I can't express how humbling it is to be the President of such a great organization. I can't believe that I've been in the wastewater field for over 30 years and a member of the WWOA for most of them. I never imagined when I was going to Moraine Park Technical College that someday I'd have this experience. So thank you for this opportunity!!

As I sit at the August Board meeting, I'm reminded how important it is to have good board of directors and secretary. They have made this year such a pleasure and I recommend this experience to anyone.

We are putting the final touches on the 48th Annual Conference. The preconference workshops have wastewater microbiology and passing the Wisconsin Department Natural Resources Operator Certification exams as their focus.

It appears that Randy Herwig (golf outing), Jim Thalke, Tom Kruzick (sporting clays), and Tom Crouse (bike ride), have everything ready to go. The guest program has a fun packed two days and I'd like to go on the Lambeau Field tour. A special thanks to Jean Van Sistine and Bruce Bartel for putting together such a great program.

This year's keynote speaker is Morgan McArthur; the title of his presentation is “Boredom Insurance.”

I believe the technical program should have something for everyone, Lyle Lutz and the technical committee did another fabulous job. Presentations will begin at 10:45 am on Wednesday and run till 4:00 pm. Also again on Thursday starting at 8:00 am and running through 4:00 pm.

We should have a great exhibitor area again this year with 102 booths already signed up. Please, take some time to visit the vendors as they help support the conference.

Don't forget to sign up for the operators luncheon or just attend the business meeting. We have bylaws and articles to vote on which have been posted in the Clarifier.

The tour to the Fox Energy Center is limited to one bus so please sign up early. The New Water tour will have a continuous bus running back and forth from 1:30 pm to 4:00 pm with vendor demonstrations and online equipment.

On Thursday night, we will again have the awards banquet to honor some of our peers. Please consider attending it is a very enjoyable event. During the awards banquet, I will be passing the president's gavel to my very good friend Kelly Zimmer from MSA Professional Services. I know she will do a great job for the organization. After the awards banquet we will have a card playing and social event with raffle prizes. All conference attendees are invited.

This year the operator certification credits are being handled differently please remember to scan in and out daily to obtain credits! Enjoy the conference!!

I like to say thank you to all the committee members and chairs for their hard work. This year has been a pleasure. Thank you for allowing me to serve this great organization!!!

Kevin

Clark Dietz welcomes Tonia Speener

WAUSAU, WI, August 06, 2014 – Tonia Speener, P.E. has joined Clark Dietz as a project manager for the Civil/Environmental group. Ms. Speener brings over 18 years of experience in both project management and business development across various markets, including municipal, commercial, residential and agricultural. Tonia is a LEED accredited professional, specializing in building design and construction. She will be responsible for providing engineering solutions to clients throughout north central Wisconsin.

Clark Dietz, Inc. is a recognized leader in civil, environmental, transportation, mechanical, electrical, structural, and industrial engineering with over 105 professional staff in regional offices in Wisconsin, Illinois, and Indiana.  

Kevin Freber

WAUSAU, WI, August 06, 2014 – Tonia Speener, P.E. has joined Clark Dietz as a project manager for the Civil/Environmental group. Ms. Speener brings over 18 years of experience in both project management and business development across various markets, including municipal, commercial, residential and agricultural. Tonia is a LEED accredited professional, specializing in building design and construction. She will be responsible for providing engineering solutions to clients throughout north central Wisconsin.

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Kevin Freber
NEW Water, the brand of the Green Bay Metropolitan Sewerage District, has proudly served Northeast Wisconsin since 1931, and treats on average 38 million gallons per day at its two plants in Green Bay and De Pere, Wisconsin.

After undergoing a significant rebranding process in 2013, NEW Water continues to build the brand, with a vision of serving as a community leader and partner in water quality issues in Northeast Wisconsin. With the double meaning of “NEW” as in “North East Wisconsin” and “new” as in new product, NEW Water’s name continues to gain favorable traction in the community.

“The new brand is aligned with our vision of becoming a ‘Utility of the Future,’ said Executive Director Tom Sigmund, “in viewing what’s sent to us as a resource to be recovered rather than a waste with which to dispose.”

Sigmund served as co-chair of the National Association for Clean Water Agencies’ (NACWA) Utility of the Future Task Force. NEW Water continues to move toward that vision through sustainability initiatives aimed at working smarter, more efficiently, and more cost effectively. Recent examples include: a new UV filter at the De Pere Facility, which yields an approximate 50% reduction in monthly energy costs; Lean Projects throughout both facilities; a solar panel at a De Pere metering station, which will generate 100% of its own electricity; LED lights around Green Bay’s primary and final clarifiers – which save money and provide better lighting and safer working conditions; and a Pipeline Pigging Project, which provided an environmentally friendly solution to a clogged interceptor and a $378,000 savings to the district.

Also in line with becoming a Utility of the Future is NEW Water’s energy-forward Resource Recovery and Electrical Energy (R2E2) Project, which continues moving forward in its design phase. The $147 million solids handling facility will address new air permit standards, aging infrastructure, continued on page 6
Water & Wastewater Professionals

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Jonnie Allison—Operations Manager at Frazier Park Public Utility • Frazier Park, CA

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Emma Kohl—Lake Supervisor at Crystal Lake WWTP • Crystal Lake, IL

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Carl Naumann—W & WW Superintendent at City of Justin WWTP • Justin, TX

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and needs for increased capacity. Electrical energy generation and heat recovery will reduce annual energy costs by 50%. Groundbreaking is slated for 2015, and project completion for 2018.

The R2E2 Project has added an exciting new component: nutrient recovery. With the addition of this new process come numerous benefits: the removal of struvite, which will reduce the manual labor of removing buildup from equipment and piping; the reduction of phosphorus and nitrogen from the solids processing recycle stream; the creation of a beneficial reuse product, and potential revenue source in the form of commercial fertilizer.

Algae problems in the Great Lakes have made national news lately, and Green Bay is also part of the story. Toxic algal blooms are the result of excessive phosphorus, and Green Bay’s Fox River is considered an “Area of Concern” by the International Joint Commission. As a point source, NEW Water is pulled into the fold to tackle phosphorus. With new state regulations to reduce phosphorus emissions further (from 1 mg/L to 0.1 mg/L), NEW Water will be faced with the decision to build a $220+ million improvement to its two treatment plants, that will remove less than the 2% of total phosphorus discharged to the bay of Green Bay or opt for Adaptive Management (AM). Wisconsin is one of the nation’s leaders in harnessing AM to reduce phosphorus as a voluntary, community-wide approach to nutrient discharge. NEW Water has fostered relationships with other wastewater treatment facilities, government, business, industry, and academia to tackle the problem. To kick off AM, NEW Water is embarking on a pilot project in Silver Creek, a primarily agricultural 4,800-acre watershed in the Lower Fox River Basin that will serve to demonstrate what would happen if 100% best management practices were installed on land. The project will scientifically monitor the stream before, during, and after practices are installed.

NEW Water’s Ambient Water Quality Monitoring Program also will work with the Silver Creek Project to ensure a scientific approach is taken to improving water quality. NEW Water’s program has been actively monitoring the waters of Northeast Wisconsin for 28 years, and has shown that at times there is a “dead zone” (hypoxic area) in the bay of Green Bay.
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“With a ‘dead zone’ and significant phosphorus issues facing Northeast Wisconsin, we hope that the Silver Creek Pilot Project will result in a healthy stream and a successful project template that can be replicated on a larger scale,” said Sigmund.

Convening and leading stakeholder groups, as with Adaptive Management, is keeping NEW Water busy these days. Currently a Billing Methodology Stakeholder Advisory Group is reviewing the billing system which has been in place nearly 40 years. The R2E2 Stakeholder Advisory Group continues as well, and an Interceptor System Master Plan Project will also convene a stakeholder group. NEW Water also has launched a new website, and is proactive both with traditional media and social media to engage customers, its greater community and stakeholders.

As staff continues to treat water ‘round the clock, NACWA recently lauded NEW Water with a Platinum Award for the 11th consecutive year of 100% permit compliance for its Green Bay Facility, and a Gold Award for two years of 100% compliance at its De Pere Facility.

But with these wins come a loss.

Recently, NEW Water ceded the title of “Tallest Building in Town” to the Green Bay Packers. For years, it was believed that NEW Water’s pump station – 10 stories below ground and 5 stories above ground – was the tallest building in town. With new additions at Lambeau Field, the home of “the Pack” now has that distinction.

“We’re happy to give up this title,” said Treatment Manager Bruce Bartel, “especially if it helps bring the Super Bowl Title back to Green Bay!”

For more information about NEW Water, please visit our website: www.newwater.us
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A note to all of the WWOA members

The Clarifier staff wanted to take some time in advance of the annual conference to let you know how this publication gets produced. The Clarifier staff consists of two people: Doralee Piering, and me. Each of us plays an important role and each of us volunteer our time.

As Editor, it is my responsibility to pull together all the articles for each issue. I am responsible for managing all of the ads that appear.

I help provide direction for each issue in case there is a special theme or if there are certain announcements that must be included.

Some examples include the September issue emphasizing the annual conference, the April issue including announcements for summer golf and sporting clay activities, and the December issue containing conference highlights and award winners.

Doralee is responsible for producing each issue. She takes the time to figure out where the articles and ads will go. She coordinates her work with our printer in an effort to have as close to a finished product as possible for the printer.

We are currently looking for someone who would like to coordinate the feature treatment plant article each issue. This person would coordinate the article, make sure all parties know the due date, and coordinate delivery of the final product. A log is kept of each plant to make sure that everyone has a chance at being on the cover.

If you have any questions regarding the Clarifier, how it is produced, how articles are selected, etc; please feel free to find one of us during the conference.

Jon Butt, Clarifier Editor
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Time is running out – Get your ops team together now!

The 2014 Operator’s Competition is getting ready to go again this year. We currently have three teams and possibly up to six. It sounds like there may be two student teams this year. Remember last year the team from UW Stevens Point took the first place trophy. Time is running out if you want to be on a team. Talk to your section president if you are interested. Let’s go, get a team together, and join the fun. I have been there, it is a blast. We will be offering four events to the competitors this year. We are hosting the same events that we had last year. The lab event, maintenance event, process control event, and we will again bring the most popular WEFTEC event to our competition. The collection system repair event; each team is to cut and replace a broken section of PVC pipe. By the way, you will also have to add a lateral connection to the repaired pipe. Everyone that has done this event in the National Competition will tell you how much fun it is. Check it out on WEFTEC.ORG.

The deadline for entering the event is September 15, 2014. This date may have past when you get this issue of the Clarifier. If you are interested, don’t hesitate to call a couple of buddies and enter the event. Contact Jeff Bratz, Competition Coordinator at, 262-206-1323 or email me at wrcsd@tds.net and I will get your team in, but don’t wait too long, preparation for the competition is already under way. Come and join the fun!
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New college scholarship announcements

North Central Laboratories has generously offered a two year scholarship to a student enrolled in a wastewater related field in the amount of $5,000. The student will receive $2,500 for their Junior and Senior year for a total award of $5,000. Students interested in applying for this scholarship should apply through the Scholarship page on the WWOA website.

The WWOA scholarship committee will review the submitted applications and make the decision on the award recipient. A big thanks to Mike Raynovic and NCL for their generous support of WWOA and the wastewater field.

ALSO - The scholarship criteria have been revised and WWOA scholarships are now open to full time students beyond WWOA member’s children and grandchildren. Please visit the Scholarship Page on the wwoa website for complete criteria and application forms.

Expand your phosphorus options!

Madison MSD will soon be utilizing struvite harvesting to lower its operating costs and recover this valuable resource.

Contact Bill Ericson at (262) 784-7690 or waericson@ati-ae.com to discuss this groundbreaking project!
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District Manager needed at Heart of the Valley

Position: District Manager – Wastewater Utility
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801 Thilmany Rd.
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(920) 766-5731
www hvmsd.org

The Heart of the Valley Metropolitan Sewerage District is recruiting a District Manager for our Kaukauna, WI facility. The District Manager is the leader of the District’s management team and reports to a five member utility Commission. The sewerage district serves a municipal population of over 50,000 which is made up of five incorporated communities and one township. The District Manager is responsible for leading and managing plant personnel, operations, processes and conveyance infrastructure. In addition, this individual provides technical leadership for the District and ensures compliance with state and federal regulations.

Essential duties include:

• Develop, maintain and deploy the operations plan for the District.
• Provide overall direction and supervision of District employees.
• Manage the fiscal affairs of the District.
• Administer the District’s Human Resources programs.
• Develop and maintain an open and positive working relationship with the District’s commissioners; develop appropriate policies and procedures; advise Commission members of issues critical to the utility.
• Primary interface with DNR regulators, community administrators, consulting firms, District contractors/vendors, attorneys, Regional Planning Commission, and community at large.
• Other duties as assigned or requested by the Commission.

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Required Qualifications:
• Bachelor degree in engineering or equivalent scientific discipline
• 10+ years of experience in Wastewater treatment
• Supervisory experience in the Wastewater industry
• Class 1 Wisconsin Wastewater Treatment Operators license (ability to obtain within one year)
• Excellent written and verbal communication skills
• Technical expertise, computer, and organizational skills
• Strong client/customer relationship skills
• Team leadership skills

Entry level salary range: $84,500 - $103,000

Submit resume and cover letter by October 10, 2014 to dawn.bartel@hvmsd.org.

By-laws and articles of incorporation changes

The WWOA Board of Directors has modernized and updated grammatical text to the Articles of Incorporation and By-Laws. The changes to the Articles of Incorporation and the By-Laws can be viewed at www.wwoa.org.

Changes that need to be voted on by the membership will be addressed at the annual business meeting on Thursday, October 9th at the 2014 WWOA Conference in Green Bay.

Proposed changes to the Articles of Incorporation, Article 8.C can be viewed by going to the wwoa website at www.wwoa.org.
**Millipore RO Unit**

One used Millipore RiOs 8 Reverse Osmosis Unit. Comes with a Milli Q Academic polishing unit for type II lab water, dispenser, and one 100 liter polyethylene reservoir. Could be used as a working unit or for parts. The unit was purchased in 2006 and was in working condition before it was taken out of service. Must pick up, no shipment.

Call for questions or to make an offer: 262-728-4140 - ask for Peter.

The unit can be viewed by appointment at:
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Dear WWOA Member, Associates, and Guests:

The WWOA Board of Directors cordially invites you to the 48th Annual WWOA Conference to be held October 7 to October 10, 2014. This year’s conference will be held at the KI Convention Center in Green Bay, WI.

WWOA activities kick off Tuesday afternoon with the ever popular Pre-Conference Workshops. There are two concurrent workshop sessions to choose from, running from 1:00 p.m. to 4:00 p.m. Workshop #1 “Wastewater Microbiology” will allow attendees to enhance their activated sludge troubleshooting skills through microscopic evaluation. Workshop #2: “Effective Study Habits to pass DNR Operator Certification exams” will shed light on what to focus on when preparing to take upcoming certification exams. The Workshops will be held at the KI/Hyatt Convention Center with Workshop #1 in the Auditorium and Workshop #2 in rooms 6A and 6B.

At 6:00 p.m. Tuesday evening, please join us for the traditional Meet and Greet, an informal gathering of friends and colleagues featuring an open buffet of brats, burgers, munchies, and refreshments at the Hyatt on Main in the Atrium. Come rekindle old friendships and make new friends.

Wednesday morning activities will begin at 9:00 a.m. with an Opening Address by WWOA President Kevin Freber. Following will be our Keynote Address provided by Morgan McArthur. The title of his speech is “Boredom Insurance”. Vendor exhibits will open at 10:00 a.m. and run through 5:00 p.m. In addition, the vendor exhibits will be open Thursday morning from 8:00 a.m. until 11:45 a.m. The Operator Competition will be on Wednesday afternoon in room B3 from 12:30 pm to 4:30 pm.

Concurrent Technical Sessions are scheduled for the mornings and afternoons on Wednesday and Thursday of the Conference. Thursday will include significant training opportunities for Phosphorus. Training opportunities for large and small system operators will be the primary focus throughout the Conference.

The WWOA Operators Luncheon and Annual Business Meeting are scheduled for 12:00 p.m. Thursday; the Social Hour & Awards Banquet is scheduled for Thursday evening beginning at 6:00 p.m. We invite you to get involved in the organization and honor our fellow operators at the Awards Banquet. The Awards Banquet will once again close with social card playing with the possibility of other games along with door prize giveaways.

We will be holding the popular Farewell Breakfast once again on Friday Morning along with closing speaker, Bill Hafs, from NEW Water. Bill will be discussing their experiences with Adaptive Management.

This year we have a unique opportunity for attendees to compliment the plant tour. NEW Water will be hosting tours of their facility and also providing the opportunity for vendors to setup live equipment demonstrations for attendees to view their equipment in action. In addition, there will be a sign up sheet for a limited number of shuttle bus seats to tour the Fox Energy Center. This year’s Spouse/Guest Program will offer a great mix of planned excursions to enjoy the many opportunities that the area has to offer. Please review the Spouse’s Program schedule for a complete list of activities and offerings.

PRE-REGISTRATION IS STRONGLY ENCOURAGED!
On-line registration with credit card payment is available at www.wwoa.org. On behalf of the Board of Directors, Technical Program, Guest Program and Local Arrangements Committees, we hope to see you this fall.

Sincerely,
Lyle Lutz
WOA Technical Program Committee Chair
Welcome back to the Hyatt on Main/KI Convention Center in Green Bay! As a registered guest of someone attending the 48th Annual Wisconsin Wastewater Operator’s Association (WWOA) Conference, on October 7-10, 2014, we are pleased to invite you to take part in our Guest Program. The Guest Program that has been designed for you this year includes access to all Conference activities, including the Meet and Greet, Guest Hospitality Rooms, Exhibit Hall, Wednesday Social Hour, Keynote Address, Walk-around Lunch, and Farewell Breakfast.

The Guest Hospitality rooms will be located in rooms 6A and 6B in the Hyatt on Main Conference Center. All of the participants of the Guest Program will receive personalized gift bag as well.

On Wednesday morning, the Guest Program will start with a continental type breakfast, located in the Guest Hospitality rooms. Lunch will be in the Exhibit Hall in the KI Center. After lunch the bus will be waiting to take you for an afternoon at the New Zoo. The bus boards at the Elm Street entrance right outside of the Guest Hospitality rooms. Everyone will arrive back at the Hyatt on Main around 4:30 PM.

Thursday begins at 8:00 A.M. with a continental breakfast located in the Guest Hospitality rooms. At 9:00 A.M., a bus will depart from the Elm Street entrance located outside of the Guest Hospitality rooms. You will start the day with a tour of the Green Bay Packers Lambeau Field Stadium and Pro Shop. Lunch on Thursday will be at the Terrace Room. And to top the day off all of the guests will be entertained with a production of “The Guernsey Boys”, a Let Me Be Frank Production at the Meyer Theatre. You will return to back to the Hyatt on Main by 3:20 PM. The day ends with the annual WWOA Awards Banquet.

On Friday, you are invited to join all WWOA members for the Farewell Breakfast. We sincerely hope you will join us for a fun and exciting program!

Sincerely,
Jean Van Sistine and Bruce Bartel
Guest Program and Local Arrangements
**Spouse/Guest Program Registration**

48th Annual WWOA Conference, Oct. 7-10, 2014  
KI Convention Center, Green Bay, WI

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<thead>
<tr>
<th>First name: ___________________</th>
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Registered attendees name: ____________________________

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**Spouse/Guest Program Includes:**

- Meet & Greet
- Admission to the exhibits
- Keynote Address
- Wednesday lunch in Exhibit Hall
- Wednesday Social Hour
- Hospitality Room
- Customize your own silk scarf
- NEW Zoo (Educational presentation and free time to visit the NEW Zoo)
- Green Bay Packers Lambeau Field Stadium Tour and Pro Shop
- Lunch at Terrace Room
- Let Me Be Frank Productions
- “The Guernsey Boys”
- Personalized gift bag
- Farewell Breakfast

**PRE-REGISTRATION** (On or Before September 20, 2014)

- Spouse/Guest Program $80.00 (banquet not included)

**ON-SITE REGISTRATION** (After September 20, 2014)

- Spouse/Guest Program $90.00 (banquet not included)

Admittance to events by badge only including exhibit hall, walk-around lunch, etc.

**Tuesday, October 7**

6 p.m. Meet & Greet in East Commons

**Wednesday, October 8**

8:00 – 9:00 a.m. – Guest Hospitality in 6A-6B  
9:00 – 10:00 a.m. – Conference Opening and Keynote Speaker  
10:00 – 12:00 p.m. – Customize your own silk scarf – on site  
12:00 – 1:30 p.m. – Lunch in Exhibit Hall  
1:30 p.m. – 4:00 p.m. – Bus departs to NEW Zoo.  
3:30 p.m. – 4:00 p.m. – Lunch at Terrace Room  
4:30 p.m. return to KI Convention Center

**Thursday, October 9**

8:00 – 9:00 a.m. – Guest Hospitality in 6A-6B  
9:00 a.m. – Bus departs for daily activities. Bus boards at Elm Street Entrance  
9:15 a.m. – 11:00 a.m. – Green Bay Packers Lambeau Field Stadium Tour and Pro Shop  
11:15 – 12:30 p.m. – Lunch at Terrace Room  
12:30 – 3:00 p.m. – Let Me Be Frank Productions “The Guernsey Boys” at the Meyer Theatre  
3:20 p.m. return to KI Convention Center

Waiver: In consideration of the registering for this event, I do hereby waive and release the Wisconsin Wastewater Operator’s Association and all persons and agencies connected with the WWOA from all claims for damages arising from my participation in and travel to and from this event. ☐

Advance Registration for the Full Guest package is $80.00. (Banquet Not Included)
## WWOA Technical Program Schedule

**Wednesday, October 8, 2014**

<table>
<thead>
<tr>
<th>TIME</th>
<th>Session A: Activated Sludge</th>
<th>Session B: BioSolids Case Studies</th>
<th>Session C: Air Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderator:</td>
<td>Kelly Zimmer</td>
<td>Moderator: Bernie Robertson</td>
<td>Moderator: Sharon Thieszen</td>
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<tr>
<td>Room:</td>
<td>A1</td>
<td>Room: A2</td>
<td>Room: A3</td>
</tr>
<tr>
<td>10:45-11:20 a.m.</td>
<td>Ken Sedmak, Tom Crouse</td>
<td>Travis Anderson, P.E., Jeff Harendra</td>
<td>Steve Muther, P.E., Debbi Goehner, P.E.</td>
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<td></td>
<td><strong>A Fly In Your Ointment</strong></td>
<td><strong>Retrofitting Digestion Facilities with an Egg Shaped Digester</strong></td>
<td><strong>Standby Generator Regulatory Update</strong></td>
</tr>
<tr>
<td>11:25-12:00 p.m.</td>
<td>Tom Fitzwilliams, Trevor Ghylin</td>
<td>Bruce Bartel</td>
<td>Travis Anderson, P.E., Debbi Goehner, P.E.</td>
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<tr>
<td></td>
<td><strong>What's Living in Your Activated Sludge?</strong></td>
<td><strong>Solids Handling Upgrade</strong></td>
<td><strong>Demystifying Wisconsin Air Permitting Rules: Does My Wastewater Utility Need an Air Permit?</strong></td>
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**Walk Around Lunch Room B1 12:00 pm - 1:30 pm**

<table>
<thead>
<tr>
<th>TIME</th>
<th>Session D: Alternative Phosphorus</th>
<th>Session E: Energy</th>
<th>Session F: SCADA</th>
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<tr>
<td>Moderator:</td>
<td>Randy Herwig</td>
<td>Moderator: Bill Oldenburg</td>
<td>Moderator: Troy Larsen</td>
</tr>
<tr>
<td>Room:</td>
<td>A1</td>
<td>Room: A2</td>
<td>Room: A3</td>
</tr>
<tr>
<td>1:30 - 2:00 p.m.</td>
<td>Pat Morrow, P.E., Randy Herwig</td>
<td>Eric M. Fisher, P.E.</td>
<td>Steve Muther, Debbi Goehner</td>
</tr>
<tr>
<td></td>
<td><strong>Adaptive Management</strong></td>
<td><strong>Making Energy Savings a Reality</strong></td>
<td><strong>Doing SCADA- A Review of SCADA Options, From Engineered Systems to “SCADA-in-a-Box” Solutions</strong></td>
</tr>
<tr>
<td>2:05 - 2:40 p.m.</td>
<td>Michael Gerbitz, P.E.</td>
<td>Alan Grooms, Jim Fischer</td>
<td>Brian Akason, Ben Brooks, John Fales</td>
</tr>
<tr>
<td></td>
<td><strong>Right Sizing of Low Level P Technologies</strong></td>
<td><strong>An Energy Saving Solution Pays Big Dividends @ Madison MSD Nine Springs WWTP</strong></td>
<td><strong>City of Medford WWTF- Phased Approach to Upgrade a Large Control System</strong></td>
</tr>
</tbody>
</table>

**Break in Exhibit Area 2:40 pm - 2:55 pm**

<table>
<thead>
<tr>
<th>TIME</th>
<th>James Kleinschmidt</th>
<th>Dan Schaefer</th>
<th>Michael J. Martinez</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:55 - 3:25 p.m.</td>
<td><strong>Wisconsin TMDL’s from a Permittee’s Perspective</strong></td>
<td><strong>Biogas Utilization Improvement at the West Bend WWTP</strong></td>
<td><strong>Concepts in Cyber Security</strong></td>
</tr>
<tr>
<td></td>
<td>Rachel M. Lee</td>
<td>Dave Arnott, John Nehmer</td>
<td>Dave Lee</td>
</tr>
<tr>
<td>3:30 - 4:00 p.m.</td>
<td><strong>The Wisconsin River TMDL from the Discharges Group Perspective</strong></td>
<td><strong>Treatment Facility Aeration Improvements Provide Energy Savings</strong></td>
<td><strong>SCADA Risks and Emergency Preparedness</strong></td>
</tr>
</tbody>
</table>

**Social Hour in Exhibit Area 4:00 pm - 5:00 pm**
<table>
<thead>
<tr>
<th>TIME</th>
<th>Session G: Collection System O&amp;M</th>
<th>Session H: Phosphorus</th>
<th>Session I: POOP-ER-EE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moderator: Sam Warp</td>
<td>Moderator: Jeremy Cramer</td>
<td>Moderator: Jeff Bratz</td>
</tr>
<tr>
<td></td>
<td>Room: A1</td>
<td>Room: A2</td>
<td>Room: A3</td>
</tr>
<tr>
<td>8:00 – 8:45 a.m.</td>
<td>Brian Vander Loop, Jeff Smudde</td>
<td>Mark P. Hughes</td>
<td>Rick Mealy</td>
</tr>
<tr>
<td></td>
<td><em>Forcemain Pigging</em></td>
<td><em>Pilot Studies to Meet Low Total Phosphorus Requirements Using Cloth Media Filtration</em></td>
<td><em>It’s Going to Take More Than Lipstick (Rebooting Our Industry v. 2.0)</em></td>
</tr>
<tr>
<td>8:50 – 9:35 a.m.</td>
<td>Mike Blazejovsky, Todd Steilmacher</td>
<td>Omar Gadala, P.E.</td>
<td>David K. Sauer</td>
</tr>
<tr>
<td></td>
<td><em>Cured-In-Place Manhole Rehabilitation- I&amp;I, Structural &amp; Corrosion Solution</em></td>
<td><em>Utilizing Hybrid Sand Filtration for Treatment of Phosphorus to Ultra-Low Levels</em></td>
<td><em>Pollutant Based Utility Charge System</em></td>
</tr>
</tbody>
</table>

**BREAK in exhibit area 9:35 a.m. to 10:00 a.m.**

<table>
<thead>
<tr>
<th>TIME</th>
<th>Session J: Collection System O&amp;M</th>
<th>Session K: Phosphorus</th>
<th>Session L: Electrical Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moderator: Tom Fitzwilliams</td>
<td>Moderator: Nate Tillis</td>
<td>Moderator: John Bond</td>
</tr>
<tr>
<td></td>
<td>Room: A1</td>
<td>Room: A2</td>
<td>Room: A3</td>
</tr>
<tr>
<td>10:00 - 10:50 a.m.</td>
<td>Tom Steinbach</td>
<td>Greg Paul</td>
<td>Tim Astfalk, Chris DeWaal</td>
</tr>
<tr>
<td></td>
<td><em>H2S - “Pay Me Now - or Pay Me Later”</em></td>
<td><em>The ABC’s of ORP in BPR Optimization</em></td>
<td><em>Arc Flash Hazard Analysis</em></td>
</tr>
<tr>
<td>10:55 - 11:45 a.m.</td>
<td>Pat Morrow, P.E., Dean Olson, P.E.</td>
<td>Brian Henry</td>
<td>Tim Murphy</td>
</tr>
<tr>
<td></td>
<td><em>Collection System Odor Control Pilot “Is This Thing Going to Stink?”</em></td>
<td><em>Meeting Low Level Phosphorus Limits by Chemical Addition(s)</em></td>
<td><em>Risk Mitigation for Aging Electrical Infrastructure</em></td>
</tr>
</tbody>
</table>

**Operators’ Luncheon 12:00pm  Business Meeting 12:30 pm in B1 and B2**

<table>
<thead>
<tr>
<th>TIME</th>
<th>Session M: Collection System O&amp;M</th>
<th>Session N: Phosphorus</th>
<th>Plant Tours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moderator: Jim Bergles</td>
<td>Moderator: Nate Tillis</td>
<td>Elm St. Pickup</td>
</tr>
<tr>
<td></td>
<td>Room: A1</td>
<td>Room: A2</td>
<td></td>
</tr>
<tr>
<td>1:30 - 2:15 p.m.</td>
<td>Andrew L. Craven, P.E.</td>
<td>Troy Larson</td>
<td>NEW Water Plant Tours &amp; Online Equipment Demonstrations by Vendors</td>
</tr>
<tr>
<td></td>
<td><em>Benchmarking &amp; CMOM – How Much O&amp;M is Enough?</em></td>
<td><em>Phosphorus Removal: Bench Scale and Full Scale Pilots that Result in Improved Phosphorus Removal</em></td>
<td></td>
</tr>
<tr>
<td>2:20 - 3:05 p.m.</td>
<td>Jack Saltes, P.E., Joan Hawley, P.E.</td>
<td>Eric Lynne, L. Downing, W. Marten</td>
<td><em>Need Filtration or Equivalent? Demonstration Testing Prepares Communities for Low Level Phosphorus</em></td>
</tr>
<tr>
<td></td>
<td><em>Collection Systems – CMOM – “How to Put Together a CMOM Program – Piece by Piece”</em></td>
<td><em>Full-Scale Pilot Targeting Ultra-Low Phosphorus at Janesville WWTP</em></td>
<td></td>
</tr>
<tr>
<td>3:15 - 4:00 p.m.</td>
<td>Continued....Collection Systems – CMOM – “How to Put Together a CMOM Program – Piece by Piece”</td>
<td>Nathan Cassity, P.E.</td>
<td><em>Fox Energy Center Tours Limited bus seating- sign up at registration desk</em></td>
</tr>
</tbody>
</table>

**Social Hour 6:00 pm : Ballroom B; Awards Banquet 7:00 : Ballroom A; Entertainment 9-11 pm : Ballroom B**
CURRENT YEAR NAME BADGE REQUIRED FOR ADMISSION TO ALL CONFERENCE FUNCTIONS.

**WWOA TECHNICAL PROGRAM SCHEDULE**

**Friday October 10, 2014**

**Operators Farewell Breakfast**

**Ballroom A 8:30 am - 10:30 am**

*Moderator: WWOA President Kelly Zimmer*

*Presenter: Bill Hafs, NEW Water*

**Conclusion of Conference**

**WISCONSIN WASTEWATER OPERATORS’ ASSOCIATION**

48th Annual Conference

KI/Hyatt Convention Center

Green Bay, WI

October 7 to October 10, 2014

**Host:** NEW Water Treatment Facility

**Fee Schedule:**

Pre-Registration: (On or before September 20, 2014)

- Member $85.00
- Non-Member $140.00
- Non-Member with Membership Offer $135.00
- Spouse/Guest Program - Full Package $80.00
- Student, Retiree $40.00

On-Site: (After September 20, 2014)

- Member $135.00
- Non-Member $190.00
- Spouse/Guest Program - Full Package $90.00
- Student, Retiree $45.00

---

**Officers:**

- **President** Kevin L. Freber
- **President Elect** Kelly Zimmer
- **Vice President** Lyle Lutz
- **Past President** Wade Peterson
- **Executive Secretary** Karen Harter

- **Director (2014)** Sharon Thieszen
- **Director (2014)** Don Lintner
- **Director (2015)** Jeff Bratz
- **Director (2015)** Jeff Simpson
- **Director (2015)** Jeff Smudde

---

**WWW Conference Oct. 7-10 KI Convention Center**

**Green Bay, WI Fee Schedule**

- **President**
- **President Elect**
- **Vice President**
- **Past President**
- **Executive Secretary**
2014 WWOA BICYCLE RIDE REGISTRATION FORM

Name: ____________________________________________

Address: __________________________________________

City: ______________________________________________

State/Zip: __________________________________________

Email address: ___________________________________

Phone: ____________________________________________

# of registrations at $35: ___________________________

KI bike storage: ________________________________

Make check payable to WWOA.

Mail registration card and check to:
Karen Harter, WWOA Executive Secretary
PO Box 451, Baraboo WI 53913
Phone: 608-355-3081     Email: secretary@wwoa.org

Lunch at Fox River Pub
348 South Washington Street, Green Bay, WI 54301

Date:      Tuesday, October 7, 2014

Time:      10:00 a.m. Rider Meeting & Start Ride

15 miles out, 15 miles back (30 miles total)

Cost:      WWOA Members, Manufacturers, Engineers,

Suppliers and Conference Attendees – $35.00

Cost Includes: Snacks and drinks along Fox River Trail,

door prizes, meal and drinks after ride at:

Fox River Pub, 348 South Washington Street

Green Bay, WI 54301

Payment must be received no later than

No refunds after September 26, 2014 UNLESS THERE IS
INCLEMENT WEATHER.

Secure bicycle storage available in KI Convention Center

Decorate your bike in a wastewater utility vehicle theme after
ride and display at conference. Mystery Prize awarded to winner.

Waiver: In consideration of the registering for this event, I do hereby
waive and release the Wisconsin Wastewater Operator’s Association and
all persons and agencies connected with the WWOA from all claims for
damages arising from my participation in and travel to and from this
event.

REDUCE SANITARY SEWER OVERFLOWS

⇒ 5 Year Field Replaceable Battery Warranty
⇒ Waterproof
⇒ LCD Display
⇒ 4G Cellular Radio
⇒ Fully Managed Service includes communications, alarm call outs and
web portals

Please visit our website at:
www.synergysalesllc.org

(phone) 262-392-5300    /    (email) sales@synergysalesllc.org
2014 WWOA GOLF OUTING

Mid Vallee Golf Course, 3850 Mid Valley Drive, DePere, WI 54115

Date: Tuesday, October 7, 2014
Time: 10 a.m. Sharp “Shotgun Start”
Type: 18 Hole Scramble Format
Prizes: Longest drive, longest putt, closest to pin, door prizes, and other special awards.
Cost: $65 WWOA Members, Manufacturers, Engineers, Suppliers and Conference Attendees

Includes: ½ motorized cart, 18 holes golf, box lunch, 2 drink tickets, snacks provided and cash bar during award/prize drawing at club house.

Payment must be received no later than September 20, 2014 with names of foursome or individuals. (Committee will assign if not in foursome).

Please RSVP early as we are limited to 100 participants. No refunds after September 20, 2014 unless course is closed by decision of Club Management. Day of event, rain checks would be issued for play, accepted through 2014 season.

Appropriate golf attire required.

WWOA Conference
Golf Outing
Registration Form

Name: _________________________________
Address: _______________________________
City: __________________________________
State/Zip: _____________________________
Email: __________________________________
Phone: __________________________________

Part of a Foursome?      Yes          No

Others in My Foursome:

_______________________________________
_______________________________________
_______________________________________

# paid _______ X $65 each

Make check payable to WWOA.

Mail registration card and check to:
Karen Harter
WWOA Executive Secretary
PO Box 451
Baraboo WI 53913
2014 WWOA SPORTING CLAYS
REGISTRATION FORM

Name: ____________________________________________________________

Address: _______________________________________________________________________

City: _________________________________________________________________

State/Zip: ______________________________________________________________________

Email: ________________________________________________________________

Phone: ________________________________________________________________________

Part of a Three/Foursome?    Yes      No

Others in My Group:
__________________________________________________________________________

# paid ______ X $40 each

Make check payable to WWOA.

Mail registration card and check to:
Karen Harter
WWOA Executive Secretary
PO Box 451
Baraboo WI 53913

2014 WWOA SPORTING CLAYS

J&H Game Farm, W5810 JH Rd., Shiocton WI 54170

Date:       Tuesday, October 7, 2014

Time:        10:00 A.M.  Sharp “Shot Gun Start”

Prizes:        1st, 2nd, & 3rd place team, Best Individual Score

Cost:        $40  WWOA Members, Manufacturers, Engineers, Suppliers, and Conference Attendees

Includes:         10 station/50 target shoot, (you may bring your own shells or purchase at J&H Game Farm) scorecards, lunch served during awards/prize drawing. Cash Bar after shoot!

Payment must be received no later than Sept. 12, 2014 with names of three/foursome or individuals. (Committee will assign if not in three/foursome).

Please RSVP early as we are limited to 80 participants. No refunds after Sept. 12, 2014 unless course is closed by decision of Club. ☺
Pre-Conference Workshops
Tues., Oct. 7, 1 to 4 p.m.
Registration Form

Name: ________________________________

Address: ________________________________

City: ________________________________

State/Zip: ________________________________

Email: ________________________________

Phone: ________________________________

Employer: ________________________________

Workshop #: ________________________________

Cost: $25 Pre-Registration
$30 On-Site
Includes refreshments between workshops

DNR credit hours available for full 1 to 4 p.m. workshop attendance.

Make check payable to WWOA.

Mail registration card and check to

Karen Harter, WWOA Executive Secretary
PO Box 451
Baraboo WI 53913
WWOA 48th Annual Conference Registration
October 7 - 10, 2014 – Green Bay, WI

Registration Form (fill out one registration form for each person attending)

Name (Last, First, M.I.) ___________________________ Email Address: ___________________________

Employer: ______________________________________ Firm Name (If Manufacturer or Consultant): ___________________________

Mailing Address: ___________________________ City ___________________________ State Zip Code ___________________________

Phone: ___________________________ Position/Title: ___________________________ WDNR Certification # ___________________________

Regional Affiliation: SE NW Southern LM NC WC _____ _____

Member Affiliation: Municipal Consultant Industrial Operator Manufacturer/Sales Educator Septage Operator DNR/EPA Student _____ _____

Pre-Registration (On or Before September 20, 2014)

WWOA Member ........................................................................................................ $85.00 ____

Non-Member ........................................................................................................ $140.00 ____

Non-Member plus WWOA Membership (Pre-Registration only) ................................................ $135.00 ____

Retiree (Must be at least 60 years old & retired from wastewater industry)............................... $40.00 ____

Student (Must send copy of valid student ID) ................................................................................ $40.00 ____

On-Site Registration (After September 20, 2014)

WWOA Member ........................................................................................................ $135.00 ____

Non-Member ........................................................................................................ $190.00 ____

Retiree (Must be at least 60 years old & retired from wastewater industry)............................... $45.00 ____

Student (Must provide copy of valid student ID) ........................................................................ $45.00 ____

Additional Functions

Operators Business Lunch (Rosemary Roasted Turkey) .............................................. No. of Tickets ________ @ $20 each

Awards Banquet ........................................................................................................ No. of Tickets ________ @ $30 each

Circle Meal Choice: 6oz. Sliced Roasted Sirloin Steak Grilled Salmon Pork Tenderloin

Farewell Breakfast (All registered Spouse/Guest are welcome)............................. No. of Tickets ________ Included with Reg.

Social Hour (Courtesy of Manufacturers & Consultants) .............................................. No Charge

Pre-Conference Workshop (Please include separate registration form) ....................... $ ______

Sporting Clays (Please include separate registration form) ........................................ $ ______

Golf Outing (Please include separate registration form) .............................................. $ ______

Bicycle Outing (Please include separate registration form) ........................................ $ ______

Guest Program (Please check if planning to attend) .................................................. $ ______

Meet & Greet (Please check if planning to attend) ..................................................... ______

WWOA Dues – Two Years (If Applicable)

Complete membership application on back of form and return with registration.............. $50.00 ____

Total Enclosed ___________________________

Manufactures & Consultants Registration Information on following page

Payment Information on bottom of following page.
Manufacturers & Consultants Registration

**Sponsorship Fee (In Addition to Conference Registration) ........................................ $100.00**

All manufacturing, Consultant Firms, Sales Firms, Exhibitors, and Contract Operation Firms *NOT* exhibiting at the Annual Conference must pay the Sponsorship Fee (one fee per firm).

**Exhibit Fee (Sponsorship Fee Included)**

- On or Before August 16, 2014 – 8’ x 10’
  (One conference registration fee included) ........................................ $390.00 ______

- After August 16, 2014 – 8’ x 10’
  (One conference registration fee included) ........................................ $580.00 ______

New Membership Option (Registration/Membership Package)

This package is available to non-members only and is available through pre-registration only. Package includes: Conference registration and a two-year membership in WWOA for $135.00. You must fill out the Membership Application section AND the Conference Registration section. Take advantage of this opportunity to add a WWOA Membership – save $5.00 when compared to non-membership registration and save on registration for next year.

**New Membership Application Form**

*Name (Last, First, M.I.) ________________________________

*Mailing Address: ________________________________ *City ________________ *State ____ *Zip Code________

*Phone: ____________________________

*E-Mail Address: ________________________________

Regional Affiliation: SE ___ NW ___ Southern ___ LM ___ NC ___ WC ___

*Member Affiliation: Municipal ___ Consultant ___ Industrial Operator ___ Manufacturer/Sales ___ Educator ___

  Septage Operator ___ DNR/EPA ___ Student ___ WDNR Certification # ______________________

*Required Information

This applicant is recommended by:

Member Name: ________________________________

City: ____________________________ State: ______

Send Membership Application along with Conference Registration.

Mail registration form(s) and fees to:

Karen Harter
WWOA Executive Secretary
PO Box 451
Baraboo WI 53913-0451

2014 Conference Committees

Local Arrangements & Spouse/Guest Program: Jean Van Sistine and Bruce Bartel

Technical Program: Chair: Lyle Lutz

Kevin L. Freber  Jeff Smudde  Wade Peterson  Sharon Thieszen
Lyle Lutz  Kelly Zimmer  Jeff Bratz  Bruce Bartel
Jeff Simpson  Karen Harter  Gary Hanson  Jon Butt
Doug Nelson  Tim Reel  Rick Mealy  Tom Fitzwilliams
Bernie Robertson  Troy Larson  Randy Herwig  Tom Kruzick
Tom Crouse  Jeremy Cramer  Randy Thater  Sam Warp, Jr.
John Bond  Todd Fischer  Eric Lynne

Exhibit & Manufacturers & Consultants Committee: Co-Chairs: Carol Strackbein, Tom Mulcahy, Dave Dorner, Dave Dodge

CURRENT YEAR NAME BADGE REQUIRED FOR ADMISSION TO ALL CONFERENCE FUNCTIONS.
Room guide for 48th WWOA conference in Green Bay

ROOM GUIDE

Registration Booth – Lobby South Counter
Pre-Conference Work Shops – Auditorium and 6A & 6B
Meet and Greet – Atrium
Technical Sessions – A1, A2, and A3
Guest Bus Departs – Elm Street (next to 6A & 6B)
Operator Competition – B3
Guest Program Hospitality Room – 6A & 6B
Tour Departs – Night) – B1, B2, Entertainment – B1, B2, B3
Farewell Breakfast – Ballroom A1, A2, A3
Speakers Prep Room – Lobby West Counter Room

WWOA Promotions – Adjacent to Coat room
Regional Officers Meeting – Room 7
Welcome Address & Keynote – B1 & B2
Vendor Exhibits – Exhibit hall C
Wednesday Walk Around Lunch – B1
Wednesday Social Hour – Vendor Exhibit Area
Thursday Luncheon /Business Meeting – B1, B2 Plant
Elm Street (next to 6A & 6B) Social Hour (Thursday
Awards Banquet – A1, A2, A3
Secured Bicycle Lockup – A4  

Wisconsin Wastewater Operators Association Convention, October 7 - October 9, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Email &amp; Website</th>
<th>Rate/One Bed</th>
<th>Doulble/One Bed</th>
<th>Executive Suites</th>
<th>Release Date</th>
<th>Group Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyatt Regency</td>
<td>333 Main Street, Green Bay, WI 54301</td>
<td>903-432-1234</td>
<td><a href="https://resweb.passkey.com/go/WIWasteWaterOperators">https://resweb.passkey.com/go/WIWasteWaterOperators</a></td>
<td>$110.00</td>
<td>$110.00</td>
<td>$175 single or double occupancy</td>
<td>9/5/2014</td>
<td>WI Wastewater Operators</td>
</tr>
<tr>
<td>Holiday Inn &amp; Suites</td>
<td>2785 Ramada Way, Green Bay, WI 54304</td>
<td>920-569-4248</td>
<td><a href="http://www.holidayinn.com/greenbaywi">www.holidayinn.com/greenbaywi</a></td>
<td>$99.00</td>
<td>$99.00</td>
<td></td>
<td>9/7/2014</td>
<td>WI Wastewater Operators</td>
</tr>
<tr>
<td>Tundra Lodge</td>
<td>835 Lombardi Avenue, Green Bay, WI 54304</td>
<td>920-405-8700</td>
<td>977-886-3725</td>
<td><a href="http://www.tundralodge.com">www.tundralodge.com</a></td>
<td>$99.00</td>
<td>$99.00</td>
<td></td>
<td>9/25/2014</td>
</tr>
<tr>
<td>Radisson Hotel &amp; Conference</td>
<td>2040 Airport Drive, Green Bay, WI 54303</td>
<td>920-494-7300</td>
<td>903-312-3332</td>
<td><a href="http://www.radisson.com/greenbaywi">www.radisson.com/greenbaywi</a></td>
<td>$92.00</td>
<td>$92.00</td>
<td></td>
<td>9/22/2013</td>
</tr>
</tbody>
</table>
WNDR Continuing Educational Credits (CEC) Procedures – WWOA Conference

As everyone should be aware of by now, the WDNR implemented a new electronic CEC tracking system. In order for those WWOA Conference attendees to receive their required CEC’s the following program will be in place for this year’s conference. It is imperative that everyone that has a DNR Operators Certification Number included on their registration (no matter how they register – either on-line or by mail in registration form). If you do NOT know your number, you can find it by going to the DNR website and look it up: http://dnr.wi.gov/elpublic/optcertlookup.aspx?pg=opcert. You can find your number and training history here. All of the Certified Operators in attendance will have a special barcode, based on their DNR Operator number, added to their badge for scanning purposes. They will be the only attendees with Barcodes.

In order to receive CEC’s for the Conference, everyone with a BARCODE on their badge will have to scan in and out on Wednesday and Thursday. All barcode scanning will be done at the WWOA Conference Registration Office. We will have special lines set up for scanning purposes. Everyone going on the plant tours will have to return to the KI Center and scan out in order to receive the CEC’s for that day and for the tour(s). If you plan on attending the Farwell Breakfast Speaker on Friday, you only need to scan out on Friday to receive that sessions CEC hour. NOTE: We will only scanning one badge per person. You must bring your own badge to the Registration office for scanning. We will NOT scan multiple badges presented by one person.

The WWOA Registration Office will be open the following hours during the convention:

<table>
<thead>
<tr>
<th>Date</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, October 7, 2014</td>
<td>2:00PM to 4:00PM (pick up registration packets only)</td>
</tr>
<tr>
<td>Wednesday, October 8, 2014</td>
<td>6:30 AM to 5:00PM</td>
</tr>
<tr>
<td></td>
<td>Pick up Registration Packets</td>
</tr>
<tr>
<td></td>
<td>Scan In and Out for CEC Hours</td>
</tr>
<tr>
<td>Thursday, October 9, 2014</td>
<td>6:30 AM to 5:30PM</td>
</tr>
<tr>
<td></td>
<td>Pick up Registration Packets</td>
</tr>
<tr>
<td></td>
<td>Scan In and Out for CEC Hours</td>
</tr>
<tr>
<td></td>
<td><strong>DO NOT FORGET TO SCAN OUT AFTER THE TOURS</strong></td>
</tr>
<tr>
<td>Friday, October 10, 2014</td>
<td>6:30 AM to Noon</td>
</tr>
<tr>
<td></td>
<td>Scan Out for CEC Hours</td>
</tr>
</tbody>
</table>

Exhibitor/Vendor packets will be available in their booths starting on Tuesday afternoon. However, any Exhibitor/Vendor that has a barcode on their badge will have to pick up their badge at the Registration Office.

Everyone Signed up for the Pre-Conference Seminars, check in and check out will be handled in the hallway outside of the Auditorium in the Hyatt on Main Conference Center Operator’s Competition will be handled separately.

Every participant will receive CEC’s based upon their scan in and out times. If you scan out early, you will only receive CEC’s for the time that you are in attendance at the WWOA Conference. There will be signs placed throughout the facilities reminding everyone to scan in and out. Ultimately, this will be the responsibility of each attendee to do so.

Everyone that requires Professional Development Hours (PDH’s), please check in at the Registration Office.

2015 Clarifier Deadlines

- February 2015 deadline is January 16
- April 2015 deadline is March 13
- June deadline is May 15
- September deadline is August 7
- December deadline is November 13

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Black River Falls hosts West Central WWOA May meeting

West central district regional meeting was held May 28th at Skyline Golf Course in Black River Falls. Meeting was brought to order by President Paul Stark. Paul started by discussing old and new business. The district is looking for someone to fill the vice chair for the 2015 year. I encourage you to consider getting on the board as it opens the opportunity to meet other great people in the industry. Karen Harter and Kevin Freber represented the WWOA at the meeting. Karen was on hand to help with website questions and issues. She is a great resource and cleaned up a few issues on the WCD region site. Thank you Karen for your help resolving those issues. Kevin reminded the group that now is the time to be considering a deserving person to be awarded for their hard work. We work with many talented people; the nominations will hopefully be many. If you have someone in mind please nominate them. Reminder to bring your certification number for all training events, it seems many have a good handle on the new system. West Central District would like to thank the vendors in attendance for their support and displays. The vendors were Everett Russell with Dorner, Al Lamovec with Commercial Testing Lab, Eric Firnila with Crane Engineering, and Rich Knoelke with Mulcahy/Shaw. Rolls were supplied by Kara Hible with Fremont Industry. First presentation was by Kara Hible with Fremont Industries. Her talk was on lift station odor control and fog control. Kara gave descriptions and explanations of the types of odors affecting lift stations. She explained the potential health risks linked to each odor. She talked about treatment options and strategies in trying to control lift station odor. Kara’s second topic was on FOG (fat, oil and grease). She described what fog was, what problems are created by it and the types of treatment available for controlling fog. The interesting part of treatment is the amount of different types there are.

Jon Butt with Symbiont presentation was about phosphorus sampling and the benefits of good data. The three forms of phosphorus that Jon discussed they were orthophosphate, polyphosphates, and organic phosphate.

Jon talked about what makes each phosphate different from each other. He discussed why testing further than what is required helps gather great data to help in more effective treatment options. Representation of data helps in determining ones wastewater plant treatment ability. The best testing data compilation time line is over a period of a year. This helps an operator get a base line for the optimal level the plant can treat for phosphorus at its current operating state. Jon went over some of the options that are being talked about in helping plants achieve their Phosphorus permit levels that have been issued or will be issued with new permits. Some options may fall under Health Economy Act and Water Quality Basic Effluent Limit (WQBEL). He did a great job explaining what each mean if an operator would choose to participate in one of the programs. He ended with information on the status of where the programs progression is the government system are and when the anticipated time line may be when the wheels for these options would be put in motion.

Jim Miller with Foth Engineering delivered and talked on the weather’s effect on the treatment plant. He started by talking on how the seasons impact weather, industry flows, plant operations, and climate change. Low temperatures are a big issue for plant operations. It causes problems all around the plant from clarifiers, to aerobic digester, and aeration operation. You can fill in the blanks for your facility. Not to mention the low water temps this winter coming into the plant on top of the day to day operation concerns. Jim went on to explain some of corrections that may be made to help get the plant operations back to normal. If the proper corrections cannot be achieved make sure you have a backup plan in place. Summer time can cause flash flooding; severe storms that cause damage or destruction to equipment. Treatment plants are affected...
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with I&I, algae blossoms in tanks with the warm temperatures. Excessive high temps can trip electrical systems and cause nuisance S.C.A.D.A. alarms. The main point Jim was making in the presentation, we cannot change the weather but we should be prepared to make corrections according to the changes caused by weather related problems.

Clint Soule with L.W. Allen topic for the day was pump plugging issues. Clint started with a statement that I find to be true and that is: all pumps plug. Some not as easily as others but all pumps can plug. Some ways to help resolve the problem is to educate the users of the sanitary system. Help them to discern what and what not to flush or drain down the collection system. Another option for decreasing pump plugging is the use of mixers in L/S. Going from two ports to the single port impellers is a way to increase the pumping efficiency for larger materials. Design changes of impellers like the vortex and recessed impellers have made great improvement in a pumps ability to move solids with less clogging. With a larger budget and more maintenance cost chopper pump can be an answer in more problem areas. By shredding the material chopper pumps are able to move material easier but the problem of debris in the system is still there. In an ideal world removing the material from the collection system is the best solution. If the capital funds are there; installation of some type of screening equipment is the best answer to this problem but we all understand that this option is usually a dream. The depressing part of this story is the debris problem is not going to get better; it’s going the other direction. When the time comes that a problem station has to be dealt with; hopefully you are partnered a pump manufacture representative that will inform you on the best solution for the particular need you have. The right pump

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Swan Analytical introduces new services program

Swan Analytical USA Inc. introduces its new services program aimed at serving drinking water facilities and clarified, or filtered wastewater applications.

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McMahon announces recent additions to its staff

McMAHON announces recent additions to its staff of engineers, architects, and project managers at the firm’s headquarters in Neenah:

Joe Hoechst joins McMAHON’s Environment & Infrastructure group as a project engineer. Hoechst earned his bachelor of science from UW-Madison in 2014. Hoechst’s focus will be stormwater.

Bryce Welch joins McMAHON’s Construction Services group as an engineering technician II. Welch earned his bachelor’s degree from Winona State University. Welch will be assisting the team as an on-site construction representative.

Spencer Kocken joins McMAHON’s Structural group as a structural engineer. Kocken earned his B.S. and master's degree in structural engineering from Milwaukee School of Engineering. Kocken will be assisting the team in designing commercial, industrial, educational, agricultural, and process structures.

Michael Borski joins McMAHON’s Architectural group as a project architect. Borski earned his masters of architecture degree from the University of Wisconsin, Milwaukee and has 34 years of experience in architecture. Borski will be assisting the team in the design and specification of architectural projects.

Burton Greuel joins McMAHON’s Architectural group as an architectural designer/ draftsperson. Greuel earned his bachelor of science in architecture from the University of Wisconsin, Milwaukee and has 15 years of experience in architecture. Greuel will be assisting the team in the production of architectural construction documents.

Mike Martin (not pictured) joins McMAHON’s Architectural group as an architectural designer/ draftsperson. Martin earned his degree in architectural studies from University of Wisconsin Fox Valley/ UW Milwaukee and has 17 years of experience in architecture. Martin will be assisting the team in the production of architectural construction documents with an emphasis on industrial facilities.

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Steve Knuth joins McMAHON’s Architectural group as an architectural designer/draftsperson. Knuth earned his master of architecture degree from the University of Wisconsin, Milwaukee and has 14 years of experience in architecture. Knuth will be assisting the team in the production of architectural construction documents.

McMAHON also has offices in Illinois and Indiana.
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will lessen L/S down time and maintenance which is money better spend all around.

Dan Sheldon and Taylor Jordon with Xylem presented on advanced automation control of the Black River Falls aeration system. Taylor started by talking about advanced automated controls of the D.O. system and what they were trying to do through the D.O. control system. They described how it worked and the basic operation through illustrations of the scada system. Beside D.O. control they also installed NH3 monitoring control which Taylor explained through discussion and illustrations. The main benefit to the BRF WWTP is energy saving by driving blowers by demand needs controlled through the SCADA system which is done by VFD control. By operating the aeration system in this way the plant has seen a reduction in energy use of 65%. Taylor went through the biomass control feature. This allows the operators to monitor sludge storage through automation. Dan’s part of the presentation was explaining the logic implementations of how the system works to control the mechanical system. He focused on how things are changing to more remote access. This feature allows for better monitoring and control of plant operation. Dan talked about how systems are laid out, features that are used, and what they mean. BRF WWTP is currently running an aeration control pilot at their facility. He talked about the BRF WWTP facility, the type of process the plant is built for, what type of data the SCADA revealed to operators, and how the data allowed for changes to help the operators reach optimization of the system performance.

Glen Tranowski with Strand Associates Inc. gave a virtual tour of the BRF plant and an overview of their plant limits. A plant tour followed. Thank you to Rick and the guys of BRF for hosting the meeting. See you in August as the City of Sparta will be hosting the summer meeting.

Submitted by Steve Skinner

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