Aerial view of Stevens Point Wastewater Treatment Plant

47th Annual W.W.O.A. Conference
October 22-25, 2013 Stevens Point, Wisconsin
Holiday Inn Stevens Point Convention Center
Host: Stevens Point Wastewater Treatment Plant
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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 for a wonderful year

As I sit and write my last President’s Message, it is hard to believe how fast the year has gone by. It seems like I just finished writing my first message. It has truly been an honor and a privilege serving as President of such an outstanding organization.

The conference is just around the corner. I hope to see you there! Kelly Zimmer and the technical committee have put together a great program. Our technical sessions offer something for everyone.

The two pre cons are: After the Siege (Dealing with the Lab Audit Aftermath) and Electrical Power & Arc-Flash Hazards. Kelly has searched long and hard for the keynote speaker and all the way from Canada, Jody Urquhart’s speech is “The Nerve to Serve …. Say Hello to Humor & Goodbye to Burnout.” There will be 39 different technical sessions that cover something for everyone! Jeremy Cramer has put together a really nice guest program and local arrangements.

At the annual conference’s banquet, I will be ending my term as I hand the gavel over to my friend, Kevin Freber of Watertown. As your new President, I know Kevin will continue to steer the WWOA in a positive direction and do great things for our organization.

As I’ve stated in the past, this is a great organization and there are many ways to get involved. Volunteer as a regional officer, give a presentation or host a regional meeting, sit on one of the Board of Director committees or become a Board member. You will meet many very talented professionals in the wastewater industry and your personal and professional network will grow immensely.

I have attended some of the regional meeting and have a few more “penciled-in.” The regions continue to do a excellent job. We must not forget they are the backbone of the WWOA. To all the officers and members I’ve met, thank you for your hospitality and all you do in providing training to our members.

Hopefully by now, you have heard that the DNR training requests and soon the credit slips will be all electronic. You can now view the Operators Certification website at: http://dnr.wi.gov/regulations/opcert/.

One key element in receiving your credits will be to remember your DNR certification number. We have added that field to your WWOA membership profile, so when you get a chance log in and update your profile. We are planning on having a kiosk at the conference for members to update their information.

There are many people I would like to thank for this wonderful opportunity to be your President!!

The Board of Director and Committee Chairs put a great deal of time into making this organization run great! The countless hours that Richard McKee and Karen Harter have put in as Executive Secretaries. Thanks to the Regional Officers and their commitment to the Organization. Past Presidents, thanks for the great mentoring! I look at the photo of the Past Presidents and I’m in awe that I will soon be joining that elite group. Thanks to the Village of West Salem and the City of Baraboo for allowing me the time to serve.

I hope you have had a great summer and look forward to seeing you at the Annual Conference in Stevens Point!

Wade

Clarifier Deadlines

February 2014 deadline is January 17, 2014
April deadline is March 14, 2014
June deadline is May 16, 2014
September deadline is August 15, 2014
December deadline is November 14, 2014
The City of Stevens Point, located on the Wisconsin River in Central Wisconsin, has always placed great importance on the water that flows to and from this small community. This is evident as you enter the city and see the inscription along the highway that depicts Stevens Point as the “City of Wonderful Water.” From the city’s earliest beginnings, water has played a valuable part in shaping this community.

In the 1800’s the water in the Wisconsin River was used as a highway to transport logs to mills that thrived in Stevens Point and the surrounding communities. In the late 1800’s and early 1900’s the river provided a source of drinking water for the residents of Stevens Point. Today, the river provides a great source of recreation to the area, boosting the tourist industry and providing beauty to the residents that call Stevens Point home. The community has and always will value this great resource and will protect it and keep it clean.

In its effort the keep the Wisconsin River clean, the City has owned and operated a wastewater treatment plant for the past 73 years. In 1940, the city built a secondary treatment plant as its first wastewater treatment facility. The original facility, designed by Consoer, Townsend, and Quinlan Consulting Engineers, utilized the activated sludge process, anaerobic digestion, a 40 kW biogas generator, and a vacuum filter on digested sludge. This 1940 facility was built with great foresight as the facility was a fairly advanced treatment plant for the

Stevens Point WWTP strives to keep the Wisconsin River clean
By Jeremy Cramer, Stevens Point Wastewater Superintendent

continued on page 6
Operators everywhere agree...
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Fort Atkinson, WI

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size of the community. To this date, most of the original tanks and building are still in use. Since its initial inception, the facility has undergone three upgrades, one in 1965, one in 1972, and another in 1993. These three major upgrades which helped increase capacity and efficiency were all designed by Strand Associates.

There have been some minor additions and changes at the facility over the past ten years. The most recent addition at the facility was a biogas CHP project that was designed by Donohue & Associates in 2012. Over the many years of its existence, this facility has been operated quite efficiently and effectively while consistently producing a very high quality effluent. In 1980, the facility was the recipient of an EPA award for exceptional operation and maintenance and in 2007 the facility received the WI DNR lab of the year award. Just recently, the superintendent and the operating staff were the recipients of the Central States Water Environment Association’s Wisconsin Section Treatment Facility Operation’s Award at the 86th Annual Meeting.

Plant Information
The Stevens Point WWTP staff consists of four operators, one Chief operator, and the Superintendent. The wastewater facility serves a population of approximately 27,000 people as well as the UW Stevens Point campus. The largest industrial customer that discharges to the facility is the Stevens Point Brewery. The collection system in Stevens Point consists of over 140 miles of sanitary sewer and 15 liftstations.

The treatment plant is designed for an average daily flow of 4.6 mgd and a peak hourly flow of 11.8 mgd. Design BOD5 and TSS loadings are 10,300 lbs/day and 10,400 lbs/day. Average influent flows and BOD5 loadings from 2008 through 2012 are summarized in Table 1. As seen in the table, influent loadings have gone up every year for the past 5 years. This increase in loadings is due to accepting more septic and holding tank waste and the recent expansion of the Stevens Point Brewery.

Table 1: Influent Flows and BOD5 Loadings

<table>
<thead>
<tr>
<th>Year</th>
<th>Influent Flow (mgd)</th>
<th>Influent BOD5 (lbs/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>3.01</td>
<td>6080</td>
</tr>
<tr>
<td>2009</td>
<td>2.85</td>
<td>6633</td>
</tr>
<tr>
<td>2010</td>
<td>3.14</td>
<td>7175</td>
</tr>
<tr>
<td>2011</td>
<td>3.15</td>
<td>7879</td>
</tr>
<tr>
<td>2012</td>
<td>2.77</td>
<td>8103</td>
</tr>
</tbody>
</table>

continued from page 4

continued on page 8
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The raw wastewater that enters the facility is carried up thirty feet by one of two 78 inch diameter screw pumps. Each screw pump has a capacity to pump 11.8 mgd. After the screw pumps, flow is sent through two Vulcan fine screens with 3 mm spacing to capture and remove any solids or screenings greater than 3 mm. The screenings are then washed and compacted and sent to the landfill. Flow is then sent through a Pista Grit vortex grit removal system to remove sand or grit from the system. The grit that is removed from the flow is then sent to a Huber grit washer before it is sent to the landfill. After grit removal flow is then sent to two rectangular primary settling tanks. Sludge is removed from the bottom of the primary tanks via two ODS air driven diaphragm pumps and sent to the anaerobic digesters.

Secondary Treatment
Stevens Point utilizes the anaerobic/oxic (A/O) process for biological phosphorus removal. After primary treatment, flow is sent to the anaerobic basin and then through three aeration basins operating in parallel. The aeration basins use fine bubble membrane diffusers and air is supplied via a 150 hp variable speed Atlas Copco positive displacement screw blower. The total treatment volume of the activated sludge basins is 1,107,856 gallons. After the aeration basins, mixed liquor is sent to two 75 foot diameter final clarifiers.

Disinfection
After final clarification, secondary effluent is sent through a Trojan 3000+ UV light system from May 1 through September 30. After all treatment, water is discharged to the Wisconsin River.

Biosolids and Anaerobic Digestion
Excess activated sludge is sent to dissolved air floatation thickeners for thickening prior to digestion. Primary sludge and waste activated sludge is sent to one of three mesophilic anaerobic digesters that have a total treatment volume of 735,000 gallons or 98,300 cubic feet. Two of the digesters have Perth gas lance mixing systems and the other digester is mixed via an Ovivo linear motion mixer. There is also a substantial amount of high strength waste added to the digesters. The high strength waste material that is added to the digesters includes dairy waste, FOG, liquefied food waste, and beer waste. The digesters are currently producing approximately 103,000 cubic feet of
Biosolids Covered this Entire Page Until We Dewatered Them.

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**Biogas Treatment and Utilization**

Biogas that is produced in the anaerobic digesters is beneficially used at the facility. The biogas is either burned in the digester boilers or in a MAN 180 kW internal combustion CHP unit. Before use, the biogas is sent through a Unison Solutions gas treatment system comprised of Hydrogen Sulfide, Siloxane, and moisture removal. Currently, the facility is producing more electricity than it consumes. In the past two months, the Stevens Point WWTP has surpassed being energy neutral and has been energy positive which is shown in figure 1 on page 12.

**Plant Performance**

The treatment plant consistently meets its WPDES permit limits which are summarized in Table 2. The effluent quality from the Stevens Point WWTP has been very consistent and is summarized in Table 3. The treatment plant staff is not only proud of producing a high quality
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effluent, but doing so in a very cost effective manner. Over the past 10 years the facility has taken full advantage of biological phosphorus removal and has consistently met permit limits without using any chemical or metal salts. Besides spending little money on chemical costs the facility is also run in a very energy conscience manner. The facility’s current average of purchased electricity cost per million gallons for 2013 is at 186 kWh/mgal. The Stevens Point wastewater facility will continue to treat wastewater in an energy efficient manner while producing the valuable end products of clean water, biosolids, and biogas.

Table 2: WPDES Permit Limits (Monthly Ave)

<table>
<thead>
<tr>
<th>CBOD5 (mg/L)</th>
<th>TSS (mg/L)</th>
<th>TP (mg/L)</th>
<th>TP (lbs/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>30</td>
<td>0.93</td>
<td>35</td>
</tr>
</tbody>
</table>

Table 3: Effluent Quality

<table>
<thead>
<tr>
<th>Year</th>
<th>CBOD5 (mg/L)</th>
<th>TSS (mg/L)</th>
<th>TP (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>3.31</td>
<td>4.22</td>
<td>0.79</td>
</tr>
<tr>
<td>2009</td>
<td>3.28</td>
<td>4.05</td>
<td>0.74</td>
</tr>
<tr>
<td>2010</td>
<td>3.96</td>
<td>4.61</td>
<td>0.71</td>
</tr>
<tr>
<td>2011</td>
<td>4.76</td>
<td>5.70</td>
<td>0.54</td>
</tr>
<tr>
<td>2012</td>
<td>5.02</td>
<td>5.68</td>
<td>0.63</td>
</tr>
</tbody>
</table>

Board of Directors meeting minutes Dec. 2012

WWOA Board of Directors Meeting
Thursday, December 6 and Friday, December 7, 2012
Holiday Convention Center, Stevens Point, WI.

1. Call to order, Roll Call- President W. Peterson called the meeting to order at 10:00 a.m. on Thursday December 6, 2012 at the Holiday Inn Convention Center, Stevens Point, Wisconsin. Roll call was taken. All board members were present.

2. Approval of the Minutes of October 8th & 9th, 2012-After review, S. Thieszen made a motion to approve the minutes as presented, L. Lutz seconded the motion. Motion carried.

3. Financial Report- R. McKee presented the Financial Statement for the Board to review and approve. McKee stated that as of November 15, 2012 the WWOA had revenues totaling $173,779.45 and expenditures of $130,453.31 with excess revenues of $43,326.14. After discussion J. Bratz made a motion to approve the Financial Statement as presented, S. Thieszen seconded the motion. Motion carried.

4. Committee Reports
   a. Nomination- Past President R. Thater stated that three of five Director terms expire October 2013; those currently held by Jim Bergles, Jeff Bratz, and Jeff Simpson. The nominations chair will be soliciting current Directors to continue another term. If the Vice
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President position is filled by a Director who has a year remaining on their term, there will be four vacant positions for the Board of Directors for 2013-14. Of those four positions, three of the positions will be two year terms and one would be a one year term.

b. Promotional Item- J. Bergles provided the Board with the promotional inventory left from the conference. He is looking into purchasing higher end shirts for next year’s conference.

c. Membership- R. McKee reported that we have 49 lifetime members for 2013. Our total membership dropped below 2000 after members is arrears were deactivated. Life membership benefits were discussed. The board will draft a suggested change in having “working” life members continue to pay dues. This will be presented to the general membership at the October annual business meeting.

d. Scholarship- S. Thieszen reported that WWOA may receive an additional scholarship from another vendor. Changing the criteria for scholarship qualifications was discussed and suggested changes will be presented at a later meeting. Tuition Reimbursements- S. Thieszen reported to date no application has been received for Tuition Aid.

e. Executive Committee- No report.

f. Clarifier- No report.

g. Career Development- L. Lutz will be attending the WI School Counselor Association conference on Feb 20th and 21st at the Monona Terrace. He has the booth display and will be updating it.

h. Awards- K. Freber has updated the nominations form and it has been posted on the website.

i. Operator Training- L. Lutz has contacted the Northwest and West Central regions for their thoughts on hosting a Microbiology Session. There is a Government Affairs Seminar on Feb 28th. J. Bergles talked about the upcoming DNR/Wisconsin Water Association/WWOA training for water and wastewater operators on Jan 24th at the Wilderness Lodge at Wisconsin Dells.

j. Directory- R. McKee reported that the feedback that he received about the Directory is that they wanted the hardcopy of the Directory. It was agreed to purchase 500 directories. Copies will be available for $10 each.

k. Publicity- J. Bratz reported all conference award winners and elected Directors have received their publicity packages. All packages that were returned have been submitted for publication.

l. Regional Coordinator- S. Thieszen provided the Board with a list of the new regional officers contact information. She also sent out an email blast to regional officers about two upcoming seminars.

continued on page 15
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m. Government Affairs- K. Freber reported that the seminar is scheduled for Feb 28th in Madison.

n. Biosolids Symposium- L. Lutz informed the Board the Spring Biosolids is scheduled for March 13th 2013 at the Holiday Inn and Convention Center in Stevens Point, Wisconsin. WWOA is chairing the symposium. Fliers will be sent out shortly.

o. Liaison- S. Thieszen reported the WI section held its Annual Business Meeting on Nov 13th at UW-Milwaukee. The CSWEA has named a new executive director following Dan Lynch’s resignation. Mohammed Haque started on Dec 1st.

p. Web-Site- J. Bratz updated the board on the items that the website committee and Webfitter are continuing to work on.

q. Technical Program- K. Zimmer has set the Tech Committee meeting for Feb 12th at the Stevens Point Holiday Convention Center. The meeting will be from 10am to 4pm. She is continuing to work on the keynote speaker, entertainment, and farewell breakfast speaker. She has been in contact with former members of the Green Bay Packers.

r. Exhibit Committee and M&C Committee- T. Mulcahy and J. Shaw attended the meeting. They reported that the 2012 conference held 118 booths. They will be sending out a short survey to all the exhibitors as a follow up to the convention. J. Shaw will be stepping down from the committee. T. Mulcahy stated their concern about the limited booth space available at this year’s conference. We met with the convention center staff and did a walk around of the facility. The members were interested in adding addition booth space out in the hallway. The committee with look into this further.

s. Operators Competition- J. Bratz informed the Board that everything went very well at the competition. The scores for the three teams were very close. NE Technical College has stated they would like to enter a team for 2013.

t. Local Arrangements- No Report from Chairman. Discussion was held about possible bussing for 2013 conference. Hotel space close to the Convention Center...
continued from page 15

is limited and we did receive some complaints last time we were at Stevens Point.

u. Spouse Program- No Report
v. Golf Outing- No Report
w. Sporting Clays- No Report
x. Permanent Arrangement- No Report.
y. Resolutions and Bylaws- No Report.
z. Historical- No Report.

K. Freber updated the board on the continued work of the committee for reworking the operator classification. W. Peterson updated the board on a new committee (DNR/WWOA/Wisconsin Rural Water) looking into improving the DNR submittal/approval for training CEUs, other methods of providing credit slips, and operators’ access to completed training.

A motion was made by K. Freber and seconded by R. Thater to accept the Committee reports as presented. Motion carried.

5. Old Business- Group Student Registration fee at annual conference. The board discussed different options/pricing for group rates. The board left fees as is and will handle group rates at as needed basis.

6. New Business
   b. Review /Approve 2013 Budget – R. McKee reviewed the projected budget. The board made some adjustments. Set projected Revenues at $186,300 and projected Expenditures at $186,026 with Revenues over Expenditures of $274.

Motion was made by R. Thater and seconded by K. Zimmer to accept the 2013 budget. Motion carried.

   c. Review/Approve Executive Secretaries Duties – The board reviewed the existing duties and those suggested by Directors. The board made several changes/updates to the duties.

A motion was made by K. Zimmer and seconded by K. Freber to accept the changes. Motion carried.

   d. Executive Secretary Compensation – R. McKee was asked to leave the meeting so the Board could review his past two year term. R. McKee returned to the meeting and a one year contract was offered to R. McKee. R. McKee stated the Executive Secretary is a two year term as stated in the by-laws. R. McKee declined the offer. Discussion was had about transferring duties and timeframe.

   e. Approve Revised 2013 Budget – A motion was made by K. Freber and seconded by L. Lutz to reopen the 2013 budget due to changes that were approved in the Executive Secretary position. Motion carried. An increase in the Executive Secretary travel and Postage, UPS, PO Box. The new total Expenditures is $187,676 and now Expenditures over Revenues is 1,376.

A motion was made by K. Freber and seconded by J. Bergles to approve the new 2013 Budget. Motion carried.

7. Adjournment- There being no further business K. Freber made a motion to adjourn. J. Simpson seconded the motion. Motion carried. The meeting was adjourned at 1:00 p.m. Friday, December 7, 2012.  
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WWOA Nomination Form: Positions elected at Conference

Positions include: Vice President, and two or three Director Positions (two-year terms), with possible one one-year term if vacancy occurs. Complete the following form and submit it along with a photo as soon as possible. If more room is needed, please add additional sheets as needed.

Name: ________________________ Home address: ________________________

Occupation: ________________________ Employer: ________________________

Education: ________________________ Organizational Experience: ________________________

WWOA Affiliation: ________________________ Offices held and when: ________________________

Committees served and when: __________________________________________________________

Regional Affiliation: ________________________ Regional Positions served: ________________________

What do you see as the future of the WWOA? __________________________________________________________

________________________________________________________________________________________

How do you feel this could be accomplished? __________________________________________________________

________________________________________________________________________________________

Other qualifications for WWOA office: __________________________________________________________

________________________________________________________________________________________

I wish to place my name into nomination for the office of: ________________________

________________________________________________________________________________________

Other comments: __________________________________________________________

________________________________________________________________________________________

Committees you are interested in serving on:

Promotions: ________ Membership/Director: ________ Scholarship: ________ Government Affairs: ________

Publicity: ________ Permanent Arrangements: ________ Awards: ________ Regional Coordinator: ________


Mail to: Karen Harter, Executive Secretary WWOA, PO Box 451, Baraboo, WI 53913-0451 or email: secretary@wwoa.org or fax: 608-355-3082. The executive secretary will forward copies to the Nominations Chairperson.

Or to: Randy Thater, Nomination Chair 2013, Waukesha WWTP, 600 Sentry Dr., Waukesha WI 53186. Or e-mail with form attached to: rthater@ci.waukesha.wi.us or fax to: 262-524-3632. Please remember to include photo.
Call now in the next 10 minutes to take advantage of this incredible offer! You too can receive the benefits that entail from being a WWOA board member!! All you have to do is nominate yourself for a Director’s position!! Well okay, this isn’t really an infomercial and I am not a non-attorney, paid celebrity spokesperson. But I am a veteran of ten years serving this fine organization, first as a regional officer, then after a considerable gap as a state board officer. In that time I served as WWOA representative and chair of the Government Affairs Seminar planning committee doing my small bit to put together that fine event. I served as liaison to Central States – Wisconsin section to assist these two groups work together in their common goals. I served several years as regional coordinator, probably my favorite duty. I got to go around the whole state, attending regional meetings, and work with all the great people that served as regional officers during my tenure.

And that was all just during my four years as a director. After that it was on to the successive executive positions. Planning the technical program for the 2010 annual conference as Vice President was perhaps the biggest challenge. After that the remaining three years seemed like a breeze. Looking at this, you might wonder why anyone ever volunteers for taking this on, but then to paraphrase a line form one of my favorite movies ‘If it were easy, anyone could do it, It’s the hard that makes it great.’ Really, it does take a commitment to put in the time and effort to do the job right. But it is also very rewarding. I wouldn’t trade these last eight years working with my fellow professionals and friends for anything.

So please give it your serious consideration. If now is the right time for you, contact Randy Thater or any current board member. Eligibility includes being an active member of WWOA. Life members may also serve provided they reinstate themselves as dues-paying active members for the duration of their service. Nominations forms are available at the WWOA website on the Directors/Chairs page, and on the page to the left.
Proposed change to the WWOA Articles of Incorporation

The Board of Directors of the WWOA make the following proposal to change the Articles of Incorporation:

Current Articles of Incorporation Reading:
Article 8: C
A Life Member shall be one who has been an Active Member for 25 years or more in this Corporation or 25 years in the Wisconsin Wastewater Work Operators Conference and Wisconsin Wastewater Work Operators Conference Incorporated, the predecessor organization of this Corporation, or a total of 25 years in both. Life Members shall have the same voting privileges as Active Members and Honorary Members, but shall not be required to pay dues. Life Members shall not, however, be eligible to hold any office in the Corporation.

Proposed Articles of Incorporation Reading:
Article 8: C
A Life Member shall be one who has been an Active Member for 25 years or more in this Corporation or 25 years in the Wisconsin Wastewater Work Operators Conference and Wisconsin Wastewater Work Operators Conference Incorporated, the predecessor organizations of this Corporation, or a total of 25 years in both. Life Members shall have the same voting privileges as Active Members and Honorary Members and shall be required to pay dues if currently employed full time by a Wastewater Affiliated Organization. A Life Member wishing to hold an office in the Organization may do so only if they are paying dues.

This proposed changed shall be published in the Clarifier at least twice before the annual conference and will be voted on at the Annual Business Meeting October 24, 2013.

Example:
Current life members that (originally joined in an even year) would receive a dues request in 2014. (1980, 1982, 1984 ...) If you are not currently employed full-time by a Wastewater Affiliated Organization, you would notify the Executive Secretary and your dues request would be cancelled. If you originally joined in an odd year (1981, 1983, 1985 ...), you would receive a dues request in 2015. Again, if you are not currently employed full-time by a Wastewater Affiliated Organization, you would contact the Executive Secretary and your dues request would be cancelled.

Financials:
Estimate that half of the existing life members are still currently employed in a Wastewater Affiliated Organization, which would mean that 213 members would continue to pay membership dues. That equates to $10,650 additional revenue on a bi-annual basis.
Looking to REPLACE your LIFT STATION GRINDER?

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- Protects equipment downstream
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Will your team WIN the 2013 Operators Competition?

The Operators Competition will be held on October 23, 2013 at the WWOA Annual Convention held at the Holiday Inn Convention Center, in Stevens Point. Teams will be challenged by the Collection Event, Maintenance Event, Operations Event and Lab Event.

The collection event challenges a team to fix a cracked section of 8” PVC pipe with another piece of 8” PVC pipe with a saddle. Each section of pipe has to be cut and made by the teams. At the same time they have to set up a flow meter in a flume to send a signal to the sampler to sample at a given rate.

The maintenance event requires the repair of a submersible mixer. Teams have to lift the mixer with a crane, disassemble the mixer, replace the wear parts, reassemble it and reinstall the mixer into its original position. This proves to be a lengthy event challenging the team’s mechanical knowledge and skills.

The plant operations event tests the team’s knowledge of plant operations and problems that are encountered in their treatment facilities.

The lab event, teams are asked to set up BOD samples for testing using the proper techniques and seeding where required. This event includes a written test and calculating BOD results.

As time permits, we may also bring back the safety event. What the event will be has yet to be determined, but we are sure it will be fun. ☺

---

**PROCESS EQUIPMENT REPAIR SERVICES – Our name says it all.**

Our team provides equipment repair and rebuild services to the water and wastewater treatment industry.

With over 30 years of experience, our staff has installed, rebuilt and/or repaired the following equipment:

- Mechanical Bar Screens
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- Digesters
- Flocculators
- Sand Filters
- Screw Pumps
- Airlift Pumps
- Trash Rakes
- Traveling Water Screens
- Floatation Thickeners

We offer professional guaranteed service. We will provide a quotation including equipment requirements and a firm price for the project.

Our customized services allow you the option of having our trained staff work with your personnel or we will provide total turnkey service to complete your equipment installation, repair, or rebuild needs on a timely, competitively priced basis.

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Email PERSLaMont@aol.com
5991 Division Rd. • West Bend, WI 53095
Dear WWOA Member, Associates, and Guests:

The WWOA Board of Directors cordially invites you to the 47th Annual WWOA Conference to be held Oct. 22-25, 2013 at the Stevens Point Holiday Inn Hotel and Convention Center in Stevens Point, WI.

WWOA activities kick off Tuesday afternoon with the ever popular Pre-Conference Workshops. There are two concurrent workshops sessions to choose from, running from 1:00 p.m. to 4:00 p.m. Workshop #1 “After the Siege: Dealing with the (lab) Audit Aftermath”. Workshop #2 offers two topics “Understanding Arc-Flash Hazards, Its Implications on Operations and Solutions that Mitigate Such Exposure” and Automation & Emergency Power Solutions for Medium-Voltage Service to Critical Infrastructure”. The workshops will be held at the Stevens Point Convention Center in the Stonefield and Evergreen rooms.

At 6:00 p.m. Tuesday evening, please join us for the traditional Meet and Greet, an informal gathering of friends featuring an open buffet of brats, burgers, munchies, and refreshments in the Stevens Point Convention Center East Commons. Come rekindle old friendships and make new friends. This is complimentary to all registered conference attendants and their guests.

Wednesday morning activities will begin at 9:00 a.m. with an Opening Address by WWOA President Wade Peterson. Following will be our Keynote Address provided by Jody Urquhart. The title of her speech is “The Nerve to Serve…. Say Hello to Humor & Goodbye to Burnout” by Jody Urquhart. 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 the Spruce and Sands rooms 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. Wednesday includes 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, which is open to all registered attendants and their guests to use their complimentary beverage tickets, & 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 close with social card playing such as euchre, poker, etc and door prize giveaways. Included in the door prizes are a minimum of 40 cash door prizes, “WWOA Beer” and other items. We will be holding the popular Farewell Breakfast once again on Friday Morning. Gil Hantzsch from MSA Professional Services, Inc. will be discussing “The Value of Water (and Your Role in it!).

Please be sure to sign-up in advance for the tours that take place on Thursday afternoon as space for the tours is limited. There will be two tours provided this year: The Stevens Point Wastewater Treatment Facility and Stevens Point Well 11 combined with UW Stevens Point Education 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.

Enclosed are the Conference Information and Registration Forms. **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, Spouse’s Program and Local Arrangements Committees, we hope to see you this fall.

Sincerely, Kelly L. Zimmer WWOA Technical Program Committee Chair.
47th Annual Conference Spouse & Guest Information

Dear WWOA Guest,

Welcome back to the Stevens Point Holiday Inn Hotel and Convention Center! As a registered guest of someone attending the 47th Annual Wisconsin Wastewater Operator’s Association (WWOA) Conference, on October 22-25, 2013, we are pleased to invite you to take part in the Spouse and Guest Program. The Stevens Point area offers miles of recreational trails, an intriguing history, many parks and great restaurants.

The Guest Program this year includes access to all Conference activities, including the Meet and Greet, Hospitality Room, Keynote Address, and Farewell Breakfast. In addition to these activities, registration for the full Guest Program provides an opportunity to take part in a variety of exciting and interesting activities in the Stevens Point area.

On Wednesday morning, the Guest program kicks off with a continental breakfast sponsored by Donohue and Associates at 8:00 a.m. in the “Little” hotel bar, this will be a great opportunity to see old friends as well as make some new ones. After breakfast you are invited to attend the Keynote Address, “The Nerve to Serve… Say hello to Humor & Goodbye to Burnout” by Jody Urquhart at 9:00 a.m.

At 10:20 a.m. you will leave the Convention Center and take a short bus ride to historic downtown Stevens Point to the Clay Corner Studio where you will have the opportunity to make a mosaic glass pendant. The Clay Corner Studio experience is brought to you by Energenecs.

At 12:05 p.m., you will walk to Father Fats Public House, one of the most unique restaurants in Wisconsin. It not only offers amazing food but a great atmosphere. The owner of Father Fats has worked and trained under world renowned Chef Emeril Lagasse. This fantastic dining experience at Father Fats is being sponsored by Ovivo.

After enjoying a fantastic lunch, you will depart for Herrschners at 1:45 p.m. Herrschners is one of the world’s largest craft outlet stores featuring over 20,000 craft items in stock. Take some time to explore your creativity while wandering through their store and warehouse.

Thursday offers you a day of fun touring some unique places in the area. The day begins at 8:00 a.m. with a continental breakfast sponsored by Xylem (Flygt) in the “Little” hotel bar. At 9:00 a.m. a bus will depart from the Convention Center and head to the Dairy State Cheese Company located Rudolph, Wisconsin for a tour that is sponsored by Peterson and Matz, Inc. Dairy State Cheese offers over 100 different cheese varieties and was voted the #1 place to buy Wisconsin cheese by Wisconsin Trails Magazine.

After the tour, the bus will take you back to Stevens Point where you will be dropped off at the city square to explore beautiful downtown Stevens Point at your own pace. You will also be given a Portage County Gift Card to use for lunch at a restaurant of your choice. Downtown Stevens Point offers a variety of restaurants to choose from and also boasts many art galleries, unique shops, and intriguing destinations.

At 1:35 p.m. the bus will pick you up at the city square and take you to the over 150 year old Stevens Point Brewery. While at the brewery you will receive a tour and a special gift, this wonderful tour is sponsored by Mulcahy Shaw Water. At 3:45 p.m. you will head back to the Holiday Inn in time to get ready for the evening 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,

Jeremy Cramer & Kelly Zimmer
Guest Program and Local Arrangements
**Spouse/Guest Program Registration**
Holiday Inn Convention Center, Stevens Point, WI

**First name:** __________________________  **Last Name:** __________________________  **M.I.:** __________________________

Name of WWOA person attending conference with: __________________________

**Email:** __________________________  **Phone:** __________________________

**Spouse/Guest Program Includes:**
- Meet & Greet
- Keynote Address
- Admission to the Exhibit Hall
- Clay Corner Studio
  (Design a pendant)
- Lunch at Father Fats Public House
- Herrschners Craft Outlet
- Wednesday Social Hour
- Hospitality Room
- Tour of WI Dairy State Cheese
  (Gift Bag of Cheese)
- Lunch downtown Stevens Point
- Tour of Stevens Point Brewery
  (Gift Bag of Beer and Root beer)
- Farewell Breakfast (Friday)
- Portage County gift card

**PRE-REGISTRATION** (On or Before September 28, 2013)
- □ Spouse/Guest Program           $75.00 (banquet not included)

**ON-SITE REGISTRATION** (After September 28, 2013)
- □ Spouse/Guest Program           $85.00 (banquet not included)

Admittance to events is by badge only

**TUESDAY, OCTOBER 22**
6 p.m. Meet & Greet  A/B/G/H Convention Center

**WEDNESDAY, OCTOBER 23**
8 a.m. – 8:45 a.m. Continental Breakfast
(Sponsored by Donohue & Associates, Inc.)
9 – 10 a.m. Conference Opening and Keynote Speaker
10:20 a.m. Depart Holiday Inn Convention Center
10:40 a.m. – 11:55 a.m. Clay Corner Studio
(Sponsored by Energenecs)
12:00 p.m. – 1:30 p.m. Lunch, shopping, and exploring historic downtown Stevens Point
1:40 p.m. Depart for Herrschners Craft Outlet
3:45 p.m. Return to Convention Center
4 – 5 p.m. Social Hour in Exhibit Area

**THURSDAY, OCTOBER 24**
8 a.m. – 8:45 a.m. Continental Breakfast
(Sponsored by Xylem Water Solutions)
8:50 a.m. Bus departs for daily activities.
9:30 a.m. – 11:30 a.m. WI Dairy State Cheese Tour
(Sponsored by Peterson and Matz, Inc)
11:30 – 1:30 p.m. – Lunch, shopping, and exploring historic downtown Stevens Point
1:45 p.m. – 3:45 p.m. – Point Brewery tour and tasting
(Sponsored by Mulcahy Shaw Water)
4 p.m. Return to Convention Center

**Sponsors of the Guest Program:**
- Ovivo
- Peterson and Matz, Inc
- Energenecs
- Donohue & Associates, Inc.
- Mulcahy Shaw Water
- Xylem Water Solutions
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<thead>
<tr>
<th>TIME</th>
<th>Session A: OPERATOR DEVELOPMENT</th>
<th>Session B: PHOSPHORUS REMOVAL</th>
<th>Session C: PROCESS MODELING</th>
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<tr>
<td>Moderator:</td>
<td>Bernie Robertson</td>
<td>Tim Reel</td>
<td>Doug Nelson</td>
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<td>Room:</td>
<td>Harvest/Stonefield</td>
<td>Frontier/Evengreen</td>
<td>Trillium/Woodland</td>
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<td>10:45-11:20</td>
<td>Jack Saltes, Lisa Bushby</td>
<td>Troy Larson, Tina Sebold</td>
<td>Michael Minkebide</td>
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<td>a.m.</td>
<td>&quot;Point Source&quot; Certification</td>
<td>Simple, Early Steps Toward</td>
<td>Advances in Control</td>
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<td>Meeting Lower Phosphorus</td>
<td>Strategies</td>
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<td></td>
<td>Jenny Pagel</td>
<td>Effluent Limits-Case Studies</td>
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<td>11:25-12:00</td>
<td>Positive Community Connections</td>
<td>Greg Gunderson</td>
<td>Leon Downing</td>
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<td>p.m.</td>
<td>for Treatment Plants via Youth</td>
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<td>Apprenticeship Programs: A</td>
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<td>&quot;Win-Win&quot; for everyone</td>
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<td>Walk Around</td>
<td>Lunch 12:00 pm - 1:30 pm</td>
<td>Operators Competition 12:30</td>
<td>Spruce/Sands Room</td>
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<td>TIME</td>
<td>Session D: ACTIVATED SLUDGE</td>
<td>Session E: PHOSPHORUS</td>
<td>Session F: COLLECTION</td>
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<td>Moderator:</td>
<td>Randy Belanger</td>
<td>REMOVAL</td>
<td>SYSTEM</td>
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<td>Trillium/Woodland</td>
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<td>1:30 - 2:00</td>
<td>Jon Butt, Todd Hammond</td>
<td>Greg Paul, Jared Greeno,</td>
<td>Steve Muther, Debbi Goehner</td>
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<td>p.m.</td>
<td>Not your typical fine bubble</td>
<td>David Roskowic</td>
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<td>retrofit - Midwest Cheese</td>
<td>Taming Biological Phosphorus</td>
<td>A Lift Station Control</td>
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<td>Producer improves efficiency</td>
<td>Removal Effluent P- Spikes</td>
<td>Panel Design Overview</td>
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<td>and Treatment</td>
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<td>2:05 - 2:40</td>
<td>Troy Larson</td>
<td>Brian Helminger</td>
<td>Dale Broeckert, Mark Kane</td>
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<td>p.m.</td>
<td>Troubleshooting Activated Sludge</td>
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<td>Sludge: Identifying and</td>
<td>Effluent Phosphorus Control</td>
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<td>Mitigating Impacts of Drought</td>
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<td>Exhibit Area</td>
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<tr>
<td>TIME</td>
<td>Phillip Korth</td>
<td>Matthew Schowengerdt</td>
<td>Jack Saltes</td>
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<td>2:55 - 3:25</td>
<td>Aeration University - Advanced</td>
<td>Selecting Supplemental VFA</td>
<td>The SSO Rules and CMOM</td>
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<td>p.m.</td>
<td>Concepts in Energy Efficiency</td>
<td>and Carbon Sources for Enhanced Biological Phosphorus Removal and Denitrification</td>
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<td>Jack Saltes</td>
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<td>3:30 - 4:00</td>
<td>Leon Downing</td>
<td>Sidharta Arora, Khris Radke,</td>
<td>The SSO Rules and CMOM</td>
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<td>p.m.</td>
<td>High Efficiency Aeration:</td>
<td>Marty Dierker, Bob Moser</td>
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<td>Decreasing Demand Through</td>
<td>Optimizing the P removal at</td>
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<td>Process</td>
<td>South Shore Water Reclamation</td>
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<td>Facility by moving from Full</td>
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<td>Chemical P removal to Partail</td>
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<td>Bio P removal and then to Full</td>
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<td>Bio P Removal</td>
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<td>Social Hour</td>
<td>in Exhibit Area 4:00 pm - 5:00</td>
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<td>8:00 – 8:45 a.m.</td>
<td>Session G: LAGOON OPERATION Moderator: Wally Thom, Room: Sands/Spruce</td>
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<td>8:50 – 9:35 a.m.</td>
<td>Session H: POOP-ER-EE Moderator: Sharon Thieszen, Room: Evergreen</td>
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<td>Session I: WATERSHED BASED COMPLIANCE Moderator: Rick Mealy, Room: Frontier</td>
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<td>Taylor Reynolds, Art Bahr</td>
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<td>Jeremy Cramer</td>
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<td>Jon Butt, Kevin Freber</td>
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<td>Break in exhibit area 9:35 a.m. to 10:00 a.m.</td>
<td>Session J: NUTRIENT REMOVAL TECHNOLOGY Moderator: Aaron Eichhorst, Room: Sands/Spruce</td>
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<td>Session K: POOP-ER-EE Moderator: Kay Curtin, Room: Evergreen</td>
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<td>Session L: WATERSHED BASED COMPLIANCE Moderator: Randy Herwig, Room: Frontier</td>
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<td>Dave Diehl</td>
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<td>Rick Mealy</td>
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<td>Pat Morrow, Kurt Calkins</td>
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<td>10:00 – 10:50 a.m.</td>
<td>Session M: NERD 101 Moderator: Jon Butt, Room: Sands/Spruce</td>
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<td>Session N: POOP-ER-EE Moderator: Troy Larson, Room: Evergreen</td>
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<td>Session O: REPAIRS Moderator: Don Lintner, Room: Frontier</td>
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<td></td>
<td>Laura Marcolini, Ken Neu, Bjorn Rusten</td>
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<td>Tom Fitzwilliams</td>
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<td>Ann Hirekatur, Pat Oldenburg</td>
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<td>10:55 – 11:45 a.m.</td>
<td>πOperator - A Day in the Life of the &quot;Connected&quot; Operator</td>
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<td>Regional Waste to Energy Projects - Case Studies and Survey Results</td>
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<td>Equipment Replacement - A Teamwork Approach</td>
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<td>1:30 - 2:15 p.m.</td>
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<td>Session N: POOP-ER-EE Moderator: Troy Larson, Room: Evergreen</td>
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<td>Session O: REPAIRS Moderator: Don Lintner, Room: Frontier</td>
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<td>Eric M. Fisher</td>
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<td>Jan M. Scott, Jay S. Kemp</td>
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<td>Mark Johnson, Jared Greeno</td>
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<td>2:20 - 3:05 p.m.</td>
<td>Up in the Clouds Computer</td>
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<td>Biogas...What is the future? Biomethane as a transportation fuel</td>
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<td>You Never Know What the Next Phone Call Will Bring</td>
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<td>3:15 - 4:00 p.m.</td>
<td>iOperator - A Day in the Life of the &quot;Connected&quot; Operator</td>
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<td>Jeff VanVoorhis</td>
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<td>Dan Sexton, Jeff Wunrow, Bill Obenauf</td>
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<td>Going Mobile: Explore Applications in today's world that have gone mobile</td>
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<td>Protective Coatings for Concrete in Wastewater Environments</td>
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<td>Bob Gasky</td>
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<td>Jim Orr</td>
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<td>Social Hour 6:00 pm Awards Banquet / Entertainment 7:00 pm - Northwoods Expo Hall</td>
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CURRENT YEAR NAME BADGE REQUIRED FOR ADMISSION TO ALL CONFERENCE FUNCTIONS.
DNR Credit Slips will be available at the Conference Registration Area Only!

**WWOA Conference Oct. 22-25 Stevens Point Holiday Inn**

**Fee Schedule**

*President*  Wade Peterson
*President Elect*  Kevin L. Freber
*Vice President*  Kelly Zimmer
*Past President*  Randy Thater
*Executive Secretary*  Karen Harter

**Director (2014)**  Lyle Lutz
**Director (2014)**  Sharon Thieszen
**Director (2013)**  Jim Bergles
**Director (2013)**  Jeff Simpson
**Director (2013)**  Jeff Bratz

---

**Pre-Registration: (On or before September 28, 2012)**

- **Member**: $80.00
- **Non-Member**: $135.00
- **Non-Member with Membership Offer**: $130.00
- **Spouse/Guest Program - Full Package**: $70.00
- **Student, Retiree**: $40.00
- **Substitution (Re-print charge)**: $15.00

---

**On-Site: (After September 28, 2012)**

- **Member**: $130.00
- **Non-Member**: $185.00
- **Spouse/Guest Program - Full Package**: $80.00
- **Student, Retiree**: $45.00
- **Substitution (Re-print charge)**: $20.00
# 47th Annual WWOA Conference Schedule of Events

**Tues., Oct. 22**  
**AM**  
Board of Directors Meeting  
Golf Outing: Wisconsin River Country Club 10 a.m.  
Sporting Clays: J&H Game Farm 10 a.m.  
Pre-Conference Workshops: Evergreen and Stonefield 1-4 p.m.  

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 a.m.</td>
<td>Golf Outing: Wisconsin River Country Club</td>
<td>Wisconsin River Country Club</td>
<td>Shotgun start</td>
</tr>
<tr>
<td>10 a.m.</td>
<td>Sporting Clays: J&amp;H Game Farm</td>
<td>J&amp;H Game Farm</td>
<td>Shotgun start</td>
</tr>
<tr>
<td>1-4 p.m.</td>
<td>Pre-Conference Workshops: Evergreen and Stonefield</td>
<td>Evergreen and Stonefield</td>
<td>See schedule</td>
</tr>
</tbody>
</table>

**PM**  
Registration Opens: Wisconsin Room 1-4:30 p.m.  
Regional Officers Meeting: Bayba Room 4:30-6 p.m.  
Meet and Greet: East Commons 6-7 p.m.  
Open Buffet w/ Brats, Hamburgers, & Snacks 6-7 p.m.  
Social, Refreshments, Beer, Wine, Soda 7-9 p.m.  

**Wed., Oct. 23**  
**AM**  
Registration Opens: Wisconsin Room 8 a.m.  
Welcome Address: Prairie Ballroom 9 a.m.  
WWOA President Wade Peterson 9 a.m.  
Keynote Address: Prairie Ballroom 9:15 a.m.  
Vendor Exhibits: Northwoods Expo Hall 10 a.m.-5 p.m.  
Technical Sessions: Frontier/evergreen, Harvest/stonefield & Trillium/Woodland 10:45-11:55 a.m.  
See Schedule  

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 a.m.</td>
<td>Registration Opens: Wisconsin Room</td>
<td>Wisconsin Room</td>
<td></td>
</tr>
<tr>
<td>9 a.m.</td>
<td>Welcome Address: Prairie Ballroom</td>
<td>Prairie Ballroom</td>
<td></td>
</tr>
<tr>
<td>9 a.m.</td>
<td>WWOA President Wade Peterson</td>
<td>Prairie Ballroom</td>
<td></td>
</tr>
<tr>
<td>9:15 a.m.</td>
<td>Keynote Address: Prairie Ballroom</td>
<td>Prairie Ballroom</td>
<td></td>
</tr>
<tr>
<td>10 a.m.-5 p.m.</td>
<td>Vendor Exhibits: Northwoods Expo Hall</td>
<td>Northwoods Expo Hall</td>
<td></td>
</tr>
<tr>
<td>10:45-11:55 a.m.</td>
<td>Technical Sessions: Frontier/evergreen, Harvest/stonefield &amp; Trillium/Woodland</td>
<td>Frontier/evergreen, Harvest/stonefield &amp; Trillium/Woodland</td>
<td>See Schedule</td>
</tr>
</tbody>
</table>

**PM**  
Walk Around Lunch: In East Commons noon-1:30 p.m.  
Operator Competition: Spruce/Sands 12:30-4:30 p.m.  
Technical Sessions: Same as Wednesday a.m. 1:30-4 p.m.  
Exhibits Social Hour: In Exhibit Area 4-5 p.m.  

**Thurs. Oct. 24**  
**AM**  
Registration Opens: Wisconsin Room 8 a.m.  
Vendor Exhibits: Northwoods Expo Hall 8-11:45 a.m.  
Technical Sessions: Sands/Spruce, Frontier & Evergreen 8-11:45 a.m.  
See Schedule  

**PM**  
Operator Luncheon: Harvest/Trillium/Stonefield/Woodland noon-1:20 p.m.  
Business Meeting: Harvest/Trillium/Stonefield/Woodland 12:30-1:20 p.m.  
Plant Tour Departure: Conference Center Entrance 1:30-4:30 p.m.  
Presign@reg Stevens Point WWTF & Stevens Point Well #11 with Stevens Point Education Center  
Technical Sessions: Same as Thursday a.m. 1:30-4 p.m.  
See Schedule  
Social Hour: Northwoods Expo Hall 1 & 2 6 p.m.  
Awards Banquet: Northwoods Expo Hall 3A, 3B & 4 7 p.m.  
Entertainment: Northwoods Expo Hall 1 & 2 9 p.m.  

**Fri. Oct. 25**  
**AM**  
Farewell Breakfast: expo Hall 3A & 3B 8:30-10:30 a.m.  
Gil Hantzsch
2013 WWOA GOLF OUTING

Wisconsin River Country Club, 705 W. River Drive, Stevens Point, WI 54481

Date: Tuesday, October 22, 2013
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: $55 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 28, 2013 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 28, 2013 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.
Go to www.golftheriver.com for more information.

2012 WWOA GOLF OUTING REGISTRATION FORM

Name: ________________________________
Address: ______________________________
City: _________________________________
State/Zip: _____________________________
Phone: _______________________________
Part of a Foursome?  Yes  No
Others in My Foursome:

____________________________________
____________________________________
____________________________________
# paid _______ X $58 each

Make check payable to WWOA.
Mail registration card and check to:
Karen Harter
WWOA Executive Secretary
PO Box 451
Baraboo WI 53913
2013 SPORTING CLAYS
REGISTRATION FORM

Name: __________________________________________

Address: __________________________________________

City: __________________________________________

State/Zip: __________________________________________

Phone: __________________________________________

Part of a Three/Foursome? Yes No

Others in My Group: __________________________________________

# paid ____ X $35 each

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

Driving Directions from Stevens Point: Head east on US-10 toward Oak Ln Ct (6.3 mi), turn left onto Hwy 161 E (go 12.3 mi), turn right onto N Main St (go 0.2 mi), Take 2nd left onto Hwy 161 E/E State St (go 10.7 mi), turn right onto Hwy 110 S (go 203 ft), turn left onto Hwy 22 N/Trunk N (go 9.5 mi), Turn left onto US 45 N/Hwy 22/Trunk N (go 7.4 mi), turn right onto Hwy 156 E/Green Tree Road (go 8.6 mi), Turn left to stay on Hwy 156 E (go 3.4 mi), turn right onto J H Rd (go 0.3 mi)

2013 WWOA SPORTING CLAYS
J&H Game Farm, W5810 JH Rd., Shiocton WI 54170

Date: Tuesday, October 22, 2013
Time: 10:00 A.M. Sharp “Shot Gun Start”
Prizes: 1st, 2nd, & 3rd place team, Best Individual Score
Cost: $35 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 Oct. 4, 2013 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 Oct. 11, 2013 unless course is closed by decision of Club.

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!
### Schedule

#### Pre-Conference Workshops

**Tues., Oct. 22, 1 to 4 p.m.**

<table>
<thead>
<tr>
<th>Room</th>
<th>Workshop #1</th>
<th>Workshop #2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stonefield</td>
<td>Evergreen</td>
</tr>
<tr>
<td></td>
<td>Mark Pischke, Moderator</td>
<td>Jim Bergles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop 1 Details</th>
<th>Workshop 2 Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2:25 p.m.</td>
<td><strong>After the Siege:</strong> Dealing with the {Lab} Audit Aftermath</td>
<td>Automation &amp; Emergency Power Solutions for Medium-Voltage Service to Critical Infrastructure Jerry Baskin (Electro-Mechanical Corp)</td>
</tr>
<tr>
<td></td>
<td>Rick Mealy</td>
<td></td>
</tr>
<tr>
<td>2:25 to 2:40 p.m.</td>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
</tr>
<tr>
<td>2:40 to 4 p.m.</td>
<td><strong>Workshop 1</strong></td>
<td><strong>Workshop 2</strong></td>
</tr>
<tr>
<td></td>
<td>Stonefield</td>
<td>Evergreen</td>
</tr>
<tr>
<td></td>
<td><strong>After the Siege:</strong> {Lab} Audit (continued)</td>
<td><strong>Understanding Arc-Flash Hazards, Its Implications on Operations and Solutions that Mitigate Such Exposure</strong></td>
</tr>
<tr>
<td></td>
<td>Rick Mealy</td>
<td>Jerry Baskin (Electro-Mechanical Corp)</td>
</tr>
</tbody>
</table>

### Registration Form

**Name:** ____________________________

**Address:** ____________________________

**City:** ____________________________  **State/Zip:** ____________________________

**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 47th Annual Conference Registration  
October 22 – 25, 2013 – Stevens Point, 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 ____

2013-2014 Directory: Hard Copy ($10.00) ................................................. $10.00 ____

USB Drive ($10.00) ....................................................... $10.00 ____

Pre-Registration (Prior to September 28, 2013)

WWOA Member ................................................................. $80.00 ____

Non-Member .................................................................. $135.00 ____

Non-Member plus WWOA Membership (Pre-Registration only) .................... $130.00 ____

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 28, 2013)

WWOA Member ................................................................ $130.00 ____

Non-Member ................................................................ $185.00 ____

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

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

Substitute or Re-Print Charge ................................................................. $20.00 ____

Additional Functions

Operators Business Lunch (Beef Pot Roast) ........................................... No. of Tickets ________ @ $20 each

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

Circle Meal Choice: Bacon-wrapped sirloin steak   Chicken Florentine   Mahi Mahi

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) .................... $ __________

Spouse/Guest Program (Please include separate registration form) ....... $ __________

Meet & Greet (Please check if planning to attend) ............................... No Charge. __________

WWOA Dues – Two Years (If Applicable)

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

Total Enclosed $ __________

Enter credit card information in box at top of registration form.

Mail registration form and fees to:

Karen Harter
WWOA Executive Secretary
P.O. Box 451
Baraboo, WI 53913

On-line registration available at: www.wwoa.org

Make checks payable to: WWOA
Manufacturers & Consultants

**Sponsorship Fee (In Addition to Conference Registration)**
Manufacturing, Consultant Engineering Firms, Sales Firms, Exhibitors, and Contract Operation Firms (one fee per firm)........................ $100.00 

**Exhibit Fee (In Addition to Booth Registration & Sponsorship)**
On or before August 15, 2013 – 8’ x 10’
(One member registration fee included)........................................ $385.00 

After August 15, 2013 – 8’ x 10’
(One member registration fee included)........................................ $575.00 

**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 $130.00. 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.

**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 ____ 

This applicant is recommended by: 
Member Name: ________________________________ 
City: __________________________ State: _______ 

**PLEASE**

send membership application along with conference registration. Thank you.
Room Guide

Registration Booth
Wisconsin Room
WWOA Promotions
Convention Center lobby
Pre-Conference Workshops
Evergreen and Stonefield Regional Officers
Regional Officers Meeting
Bayba Room
Meet and Greet
East Commons
Welcome Address & Keynote
Prairie Ballroom: Frontier/Harvest/Trillium/
Evergreen/Stonefield/Woodland
Technical Sessions
Frontier/Evergreen, Harvest/Stonefield,
and Trillium/Woodland
Vendor Exhibits
Northwoods Expo Hall: 1 through 4
Guest Bus Departs
Conference Center Entrance Both days
Wednesday Walk Around Lunch
Vendor Exhibit Area
Operator Competition
Spruce/Sands
Wednesday Social Hour
Vendor Exhibit Area
Guest Program Hospitality Room
‘Little Bar’
Thursday Luncheon and Business Meeting
Harvest/Trillium/Stonefield/Woodland
Plant Tour Departs
Conference Center Entrance Both days
Social Hour (Thursday Night)
Northwoods Expo Hall 1 & 2
Awards Banquet
Northwoods Expo Hall 3A, 3B & 4
Entertainment
Northwoods Expo Hall 1 & 2
Farewell Breakfast
Northwoods Expo Hall 3A & 3B

2013 Conference Committees

Local Arrangements & Spouse/Guest Program: Jeremy Cramer and Kelly Zimmer
Technical Program: Chair: Kelly Zimmer

Sharon Thieszen Tom Crouse Wade Peterson Troy Larson Jon Butt
Lyle Lutz Randy Thater Jeff Bratz Kevin Freber Tom Fitzwilliams
Jeff Simpson Randy Herwig Gary Hanson Bruce Bartel Tom Kruzick
Doug Nelson Karen Harter Rick Mealy Kay Curtin Tim Reel
Bernie Robertson

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

CURRENT YEAR NAME BADGE REQUIRED FOR ADMISSION TO ALL CONFERENCE FUNCTIONS.
Attention all potential WWOA exhibitors

The WWOA 47th Annual Conference will be held October 22 - 25, 2013 at the Holiday Inn Conference Center in Stevens Point. Exhibits are Wednesday, Oct. 23 and Thursday, Oct. 24 only.

There are approximately 108 8’ wide x 10’ deep exhibit spaces available during the WWOA conference being held at the Holiday Inn, Stevens Point Conference Center.

Total cost for the exhibit space is $385 for applications received prior to Aug. 15, 2013 for a 8x10’ exhibit space. After August 15, the cost is $575. A sponsor fee of $100.00 is included in this cost. This fee includes:

- One member Conference Registration
- Backdrop and side drapery
- Table with Drapery and chair
- One 110-volt outlet
- Sponsor Fee

Everyone staffing the booth must be registered. In addition, please remember, “Any events sponsored by manufacturers and consultants, such as luncheons, training sessions, hospitality suites, etc. that interfere with the conference (including exhibit hours) will not be allowed”.

The Sponsor Fee of $100.00 (included in the exhibit cost) is to be paid only once per firm. It is charged to ALL manufacturers, manufacturers’ representatives, distributors, consultants, and any non-municipal entity, or individual attending the conference (Retirees are exempt from the sponsor fee).

The sponsor fee includes:

- Refreshments during Meet-N-Greet and Exhibit Hours
- The Wednesday walk-around lunch in the exhibit area
- The social hour before the awards banquet

Exhibit hours are:

- Wednesday, October 23- 10:00 A.M. to 5:00 P.M.
- Thursday, October 24 - 8:00 A.M. to 11:30 A.M.

Exhibits may be set up Tuesday afternoon after 4 P.M. or Wednesday morning. All exhibits must be set up by 9:00 A.M. on Wednesday and cannot be dismantled before 11:30 A.M. Thursday.

All items must be removed from the exhibit hall by 2:00 P.M. on Thursday.

All applications must be received prior to August 15, 2013, as the space assignment date is September 1. Exhibitors will be notified of the space assignment by mid-September.

If you have any questions or need any more information, please send an e-mail to: tmulcahy@mulcahyshaw.com.

Thank you for your continued support of the WWOA!!

WWOA Exhibit Committee Co-Chairs
Tom Mulcahy, Carol Strackbein

WWOA Exhibit Committee Members
David Dorner, Dave Dodge

P.S. Please note that each person staffing the booth must register for the conference.

REMEMBER to pre-register.

It will save you time and frustration at registration time!
2013 WWOA exhibitor display application form

Please reserve an exhibit space for us at the WWOA Annual Conference to be held at the Stevens Point Holiday Inn Convention Center on October 22-25, 2013. The display fee will be $385 for applications received prior to Aug. 15 and $575 for applications received after this date. The exhibit fee will include: One member conference registration, booth drapery, table with drapery and chair, one 110 volt electrical connection, and sponsor fee. Additional electrical connections or supplies may be ordered from the exhibit set-up company.

We understand and agree that, upon acceptance of this application, we will be bound by the WWOA exhibit rules and regulations. Please provide the following information:

COMPANY __________________________________________________________

CONTACT NAME _____________________________________________________

E-MAIL ADDRESS _____________________________________________________

MAILING ADDRESS ___________________________________________________

CITY & STATE, ZIP and TELEPHONE: ___________________________________

Type of Equipment your company supplies
(Please be specific, i.e. coatings, safety equipment, etc.)

Please name any competitors who should not be placed near your booth:
_____________________________________________________________________

Please list the name of another exhibitor you would like placed adjacent to your booth
_____________________________________________________________________

We would like to purchase another exhibit space if one is available (One Application/ Booth): YES NO

Please list all booth attendees’ names and company names below.

Name(s) Company
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________
_____________________________________________________________________

A registration form must be completed for each booth attendee. Reminder: the booth fee includes (1) free member conference registration. Additional booth personnel must register and pay their fees. The additional booth personnel registration fee is as follows: $80.00-member, $130.00-non-member.

*Fill out this form and the registration form for all attendees*

Questions: E-mail to Tom Mulcahy at tmulcahy@mulcahyshaw.com
### WWOA Convention Housing Information, Oct. 22-24, 2013

Group Code (for all hotels): WI Wastewater Operators  
NOTE: These rates are good through September 21, 2013  
PLEASE CONTACT EACH HOTEL DIRECTLY TO MAKE YOUR RESERVATIONS.  
*If booking for State Rate, please have proper documentation when making reservations.  
Please contact the Stevens Point Area Convention & Visitors Bureau with any questions: 715-344-2556

### HOTELS WITH SHUTTLE BUS RUNS

<table>
<thead>
<tr>
<th>HOTELS FOR STOP #1 (SEE SCHEDULE BELOW)</th>
<th>STOP #1 PICK-UP ON SCHOFIELD AVE NEXT TO COMFORT INN AND SUITES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comfort Suites</td>
<td>County Inn &amp; Suites</td>
</tr>
<tr>
<td>300 N. Division St</td>
<td>301 N. Division St</td>
</tr>
<tr>
<td>Stevens Point, WI 54481</td>
<td>Stevens Point, WI 54481</td>
</tr>
<tr>
<td>715-341-6000</td>
<td>715-345-700/800-456-4000</td>
</tr>
<tr>
<td><a href="http://www.confortsuites.com">www.confortsuites.com</a></td>
<td><a href="http://www.countryinns.com/stevenspoint">www.countryinns.com/stevenspoint</a></td>
</tr>
<tr>
<td>Rate/One Bed</td>
<td>Rate/Two Beds</td>
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<tr>
<td>$70.00-$80.00</td>
<td>$90.00-$100.00</td>
</tr>
<tr>
<td>State Rate*</td>
<td>State Rate*</td>
</tr>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HOTELS FOR STOP #2 (SEE SCHEDULE BELOW)</th>
<th>STOP #2 PICK-UP AT BP NEXT TO ECONOLODGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econolodge</td>
<td></td>
</tr>
<tr>
<td>5110 Main Street</td>
<td></td>
</tr>
<tr>
<td>Stevens Point, WI 54481</td>
<td></td>
</tr>
<tr>
<td>715-341-5110</td>
<td></td>
</tr>
<tr>
<td><a href="http://www.econolodge.com">www.econolodge.com</a></td>
<td></td>
</tr>
<tr>
<td>Rate/One Bed</td>
<td></td>
</tr>
<tr>
<td>$70.00</td>
<td></td>
</tr>
<tr>
<td>Rate/Two Beds</td>
<td></td>
</tr>
<tr>
<td>$70.00</td>
<td></td>
</tr>
<tr>
<td>State Rate*</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HOTELS FOR STOP #3 (SEE BUS SCHEDULE BELOW)</th>
<th>STOP #3 PICK-UP AT THE FAIRFIELD INN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fair-Field Inn, 5317 Hwy 10 East</td>
<td></td>
</tr>
<tr>
<td>Stevens Point, WI 54482</td>
<td></td>
</tr>
<tr>
<td>715-342-9300</td>
<td></td>
</tr>
<tr>
<td><a href="http://www.marriott.com/stefi">www.marriott.com/stefi</a></td>
<td></td>
</tr>
<tr>
<td>Rate/One Bed</td>
<td></td>
</tr>
<tr>
<td>$99.00</td>
<td></td>
</tr>
<tr>
<td>Rate/Two Beds</td>
<td></td>
</tr>
<tr>
<td>$99.00</td>
<td></td>
</tr>
<tr>
<td>State Rate*</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**BUS 1**
Arrive at Comfort Inn & Suites (Stop #1) at 7:00 am, wait 5 min. Leave 7:05 am  
Go to Econolodge (Stop #2) arrive at 7:15 am, wait 5 min. Leave 7:20 am  
Go to Fairfield Inn (Stop #3) arrive at 7:25 am, wait 5 min. Leave 7:30 am  
Arrive at Holiday Inn at 7:35 am unload. Leave Holiday Inn at 7:45 am  
and go to Stop #1  
Arrive at Stop #1 at 7:55 am start round trip again

**BUS 2**
Arrive at Comfort Inn & Suites (Stop #1) at 7:30 am, wait 5 min. Leave 7:35 am  
Go to Econolodge (Stop #2) arrive at 7:45 am, wait 5 min. Leave 7:50 am  
Go to Fairfield Inn (Stop #3) arrive at 7:55 am, wait 5 min. Leave 8:00 am  
Arrive at Holiday Inn at 8:05 am unload. Leave Holiday Inn at 8:15 am  
and go to Stop #1  
Arrive at Stop #1 at 8:25 am start round trip again

### HOTELS NOT ON SHUTTLE ROUTE

<table>
<thead>
<tr>
<th>HOTELS NOT ON SHUTTLE ROUTE</th>
</tr>
</thead>
<tbody>
<tr>
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<td><a href="http://www.americinn.com">www.americinn.com</a></td>
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<td>Comford Inn, 1560 American Drive</td>
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<td><a href="http://www.comfortinn.com/hotel/w161">www.comfortinn.com/hotel/w161</a></td>
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<td>Best Western, 5253 Harding Ave</td>
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<td>bestwesternwisconsin.com/plover-hotels</td>
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<td>Elizabeth Inn, 5246 Harding Ave</td>
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<td><a href="http://www.elizabethinn.com">www.elizabethinn.com</a></td>
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<td>Hampton Inn, 3090 Village Park Dr</td>
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<td>Holiday Inn &amp; Convention Center</td>
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<td>Host Hotel) 1001 Amber Avenue</td>
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<td>Stevens Point, WI 54482</td>
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<td>715-344-0200</td>
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<td>Holiday Inn Express (Host Hotel 2)</td>
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Fred Walmer (R) accepts the “Outstanding Employee Award” from WalCoMet Commission President Dean Logterman.

Fred volunteered to accept the after-hours and weekend “on-call” duties for six of seven weeks this past summer. This unselfish act allowed his fellow workers to enjoy their planned summer vacation with family and friends. Throughout his career Fred has been an outstanding employee with his innovative approach in resolving issues in plant maintenance.

**Board of Directors meeting minutes Jan. 2013**

WISCONSIN WASTEWATER OPERATORS’ ASSOCIATION, INC. Board of Directors Meeting, Friday January 18, 2013
Kalahari Resort & Convention Center, Wisconsin Dells, WI.

1. Call to order, Roll Call- President W. Peterson called the meeting to order at 8:30 a.m. on January 18, 2013 at the Kalahari Resort and Convention Center, Wisconsin Dells, Wisconsin. Roll call was taken. All board members were present.

2. New Business- Exec Sec Position
   a. Finalized the interview questions.
   b. Interviewed 3 candidates for the Exec Sec position.
   c. L. Lutz made a motion to hire Karen Harter for the position of WWOA Exec Sec. Contract will be from February 1, 2013 to December 31, 2014. The 2013 wage will be pro-rated from the annual wage of $16,548. J. Bratz seconded the motion. Motion carried unanimously.

3. Adjournment- There being no further business J. Bergles made motioned to adjourn, J. Bratz seconded. Motion carried. The meeting adjourned at 1PM Jan. 18, 2013.
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The Clarifier needs you, your stories, your opinions

Do you have something to say? Have you solved a unique problem at your plant? Won recognition for a job well done? Hired someone new? Wish to share your opinion on an issue? How about telling us about in the Clarifier?

The front cover of every issue includes the following statement:

“The Clarifier is the publication of the Wisconsin Wastewater Operator’s Association and is intended to inform and educate the membership on issues related to the treatment and control of wastewater. All members are encouraged to contribute to the mission of the Clarifier.”

Submitting an article can be as easy as mailing a letter or sending an email. Perhaps you are not a typist or do not have access to a computer? No problem, just write your thoughts down on a piece of paper and we will do the rest.

Or give me a call and we will figure something out. 

Jon Butt, Clarifier Editor  
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6737 W Washington St., Suite 3440  
Milwaukee, WI 53214

Jon.butt@symbiontonline.com  
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La Crosse hosts May West Central WWOA Meeting

On May 14, 2013, a meeting of the West Central District was held at the Black River Beach House in La Crosse. About 40 people were in attendance.

The business meeting began at 8:00 AM and was called to order by Paul Sterk, Chair of the West Central District. Paul stated that we still need a Chair and Vice-Chairperson for next year. He asked for people to consider hosting a regional meeting and announced that up to four employees from the city hosting the meeting can attend for free. He then asked for operator of the year nominations and for at least three people to be part of an operator competition team at the annual conference.

Wade Peterson, the WWOA President was present at the meeting and made a few announcements on behalf of the WWOA. Wade mentioned upcoming training seminars, scholarships and tuition reimbursement that are available, and spoke about the upcoming WWOA Annual Conference to be held this year in Stevens Point. Wade also called for volunteers to come forward and serve in the organization. He then acknowledged Rick Weikel’s service and dedication for serving as our West Central District Secretary for many years now. The first speaker of the day was Gary Felber of USEMCO in Tomah. Gary spoke about lift station maintenance. Some of the topics he covered were vacuum primed systems, dealing with lift station grease, pump maintenance, and the pros and cons of transducers verses floats.

The second speaker was Chris Groh of Wisconsin Rural Water. Chris’s presentation was on activated sludge process control. Chris started with alkalinity and how it affects the nitrification/denitrification process, and how this in turn affects phosphorus removal because nitrate is a source of oxygen. Chris then went on to speak about phosphorus removal and polymers.

The next speaker was Clint Soule of L.W. Allen. Clint’s topic was Wetwell Mixing Solutions. Clint spoke about the advantages of mixing wet wells to control grease and floating debris. The two technologies he described were mix/flush valves and mechanical mixers.

After Clint’s presentation, a door prize drawing was held followed by a catered lunch.

After lunch Chris Groh of Wisconsin Rural Water gave another presentation. His topic was Hormones and Antibiotics in Wastewater. Chris began with an explanation continued on page 45
of endocrine disruptors. He described how hormones and antibiotics can disrupt the endocrine systems of living organisms.

He gave several interesting examples illustrating how endocrine disruptors appeared to be having a negative impact on aquatic life. Chris discussed possible treatment options that may be available in the future such as activated charcoal and ozone treatment.

Tom Ponty and Jack Saltes of the Wisconsin DNR followed with a DNR update.

Tom spoke about the new phosphorus rules; phosphorus optimization plans, adaptive management, trading, and plant upgrades to meet the new phosphorus limits.

Jack Saltes spoke about the new sewer system overflow rules and changes to the operator certification rules.

A tour of the La Crosse Wastewater Treatment Plant was given at the end of the day by Superintendent Jared Greeno.

Submitted by
Paul Sterk
Chairman
West Central District

Clint Soule

Tom Ponty

Jack Saltes
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 three people: Doralee Piering, Kay Curtin, 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.

Kay is responsible for selecting a featured treatment plant for each issue. In this role, she contacts plants, coordinates the article, makes sure all know the due dates, and coordinates delivery of the final product.

She maintains a log of each plant to make sure that each plant has a chance. So if you get a call from Kay, it probably means she wants your plant to be featured.

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.

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
B&M Technical Services Welcomes Todd Schultz

B&M Technical Services is excited to welcome Todd Schultz to its service team as Senior Service Technician! Todd brings 21 years of water and wastewater field service experience, and is a familiar face to many operators across Wisconsin, Northern Illinois, and Michigan UP. His expertise is highly regarded by those who have worked with him for many years. His experience includes:

- Allen Bradley, Control Microsystems (Schneider Electric), PL Direct, and AutoCon programmable controllers programming
- Allen Bradley, Control Microsystems (Schneider Electric), C-More, and Proface operator interface screens programming
- Electrical, hydraulic, and pneumatic control valves and actuators
- Setup and troubleshooting of radio SCADA systems
- Gas and liquid chemical feed system troubleshooting and preventative maintenance.
- Installing new or retrofitting sanitary lift station controls
- Installing, setup and troubleshooting VFDs
- Calibration of various instrumentation and process control equipment

At B&M Technical Services, Todd will continue working directly with operators to tackle their service, troubleshooting, replacement, and project needs. Operators can expect to receive the same high quality service they have always received from Todd. During this transition, the primary goal of B&M Technical Services is to make this time as seamless as possible for both Todd and for those who know him and recognize his commitment to quality service.

B&M Technical Services has been in business for nearly 10 years. During that time, they have remained committed to providing high quality service at affordable prices. As full service process control system integrators, they serve water and wastewater treatment plants across Wisconsin. For more information, visit www.bmtechservice.com or call Todd at 608-548-3767.

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