



the  
Wisconsin Wastewater  
Operators' Association

# **Region of the Year**

## *NORTH CENTRAL REGION*

**2010 Annual Report**

**October 19, 2010**



## **North Central Region WWOA – 2010 Annual Report**

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## **North Central Region – 2010 Steering Committee Roster**

### **Chair**

**Lyle Lutz**

Plover Wastewater Utility  
PO Box 37  
Plover WI 54467  
715 345-5259  
[llutz@ploverwi.gov](mailto:llutz@ploverwi.gov)

### **Vice Chair**

**Matt Saloun**

Whiting Utilities  
3600 Water St.  
Stevens Point, WI 54467  
715-344-4545  
[whitingutilities@dwave.net](mailto:whitingutilities@dwave.net)

### **Secretary**

**Rich Boden**

Plover Wastewater Utility  
P.O. Box 37  
Plover, WI 54467  
715 345-5259  
[rboden@ploverwi.gov](mailto:rboden@ploverwi.gov)

### **Treasurer**

**Ken Bloom**

Marathon Wastewater Utility  
104 Chestnut Street  
Marathon, WI 54448  
(715) 443-2223  
[mcwwtp@dwave.net](mailto:mcwwtp@dwave.net)

### **Steering Committee**

**Ron Dickrell**

Marshfield WW Utility  
3411 S. Galvin Avenue  
Marshfield, WI 54449  
715-591-2022  
[RonDickrell@ci.marshfield.wi.us](mailto:RonDickrell@ci.marshfield.wi.us)

### **Steering Committee**

**Terry Vanden Heuvel**

Merrill Wastewater Treatment Plant  
1004 E. 1st Street  
Merrill, WI 54452  
715-536-5263  
[terry.vandenheuvel@ci.merrill.wi.us](mailto:terry.vandenheuvel@ci.merrill.wi.us)

## **North Central Region Election Results**

Ken Bloom and Matt Saloun were re-elected for a three year terms. They ran unopposed.

## **North Central Region – 2011 Steering Committee Roster**

### **Chair**

**Terry Vanden Heuvel**

Merrill Wastewater Treatment Plant  
1004 E. 1st Street  
Merrill, WI 54452  
715-536-5263  
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**Lyle Lutz**

Plover Wastewater Utility  
PO Box 37  
Plover WI 54467  
715 345-5259  
[llutz@ploverwi.gov](mailto:llutz@ploverwi.gov)

### **North Central Region – 2010 Meeting Locations**

- 1. Merrill – February 2, 2010**
- 2. Spencer – June 17, 2010**
- 3. Crandon (Northern Lakes Service) – September 17, 2010**

### **North Central Region – 2011 Upcoming Meeting Schedule**

- 1. Winter Meeting – Wausau**
- 2. Spring**
- 3. Fall**

## ***North Central Regional Meeting Summary***

	Merrill	Spencer	Crandon
Pre-registered	60	46	32
On-site	7	12	12
Total	67	58	44
Vender Displays	7	8	4
Members	51	40	28
Non-members	15	18	16

	<b>Combined Total</b>	<b>Meeting Average</b>
Pre-registered	138	46
On-site	31	10
Total	169	56
Vender Displays	19	6
Members	119	40
Non-members	49	16

**NORTH CENTRAL REGION  
2009-2010 FINANCIAL STATEMENT**

<b>DATE OF STATEMENT</b>				<b>10/12/2010</b>
<b>BEGINNING ACCOUNT BALANCE:</b>		<b>\$3,030.81</b>	10/6/2009	
<b>BEGINNING ESCROW BALANCE:</b>	<b>\$725.79</b>			
<b>INCOME:</b>	<b><u>ESCROW</u></b>	<b><u>ACCOUNT</u></b>	<b><u>DATE</u></b>	
Wausau City Credit Union Account Closure		\$5.00	10/20/2009	
Merrill WWOA Meeting Pre-Registrations		\$1,220.00	2/3/2010	
Merrill WWOA Meeting On-Site Registrations		\$175.00	2/3/2010	
Merrill WWOA Meeting Vendor Display Reg.		\$350.00	2/3/2010	
Spencer WWOA Meeting Registrations		\$1,480.00	7/1/2010	
NLS WWOA Meeting Pre-Registrations		\$600.00	9/17/2010	
NLS WWOA Meeting On-site Registrations		\$275.00	9/17/2010	
NLS WWOA Meeting Vendor Display Reg.		\$200.00	9/17/2010	
<b>TOTAL INCOME:</b>	<b>\$0.00</b>	<b>\$4,305.00</b>		
<b>EXPENSES:</b>	<b><u>CHECK #</u></b>	<b><u>ESCROW</u></b>	<b><u>ACCOUNT</u></b>	<b><u>DATE</u></b>
NCD Steering Committee Mtg - Stage Stop	1003		\$58.00	11/17/2009
Rich Boden - Merrill Meeting - Postage	1004		\$96.80	1/8/2010
VOIDED CHECK	1005		\$0.00	2/2/2010
The Arena-Merrill Meeting Meal/Hall Rental	1006		\$1,354.60	2/2/2010
City of Medford-WWOA Mtg Reimbursement	1007		\$20.00	2/5/2010
Regional Charter Fee		\$50.00		5/25/2010
Regional Insurance		\$38.13		5/25/2010
Rich Boden - Spencer Meeting - Postage	1008		\$105.60	6/10/2010
Spencer Mtg - Meal / Bob's Catering	1009		\$680.00	6/17/2010
Spencer Mtg - Hall Rental - St. John's Church	1010		\$200.00	6/17/2010
Village of Spencer - Prizes, Meeting Expenses	1011		\$334.00	7/28/2010
WWOA Conference - Operator's Competition	1012		\$200.00	8/16/2010
Rich Boden - Crandon Meeting - Postage	1013		\$132.00	8/20/2010
Northern Lake Service - Crandon Mtg. Meal	1014		\$325.00	9/27/2010
<b>TOTAL EXPENSES:</b>		<b>\$88.13</b>	<b>\$3,506.00</b>	
<b>TOTAL INCOME:</b>		<b>\$0.00</b>	<b>\$4,305.00</b>	
<b>TOTAL EXPENSES:</b>		<b>\$88.13</b>	<b>\$3,506.00</b>	
<b>NET:</b>		<b>(\$88.13)</b>	<b>\$799.00</b>	
<b>ENDING ACCOUNT BALANCE:</b>			<b>\$3,829.81</b>	
<b>ENDING ESCROW BALANCE:</b>	<b>\$637.66</b>			

STATEMENT PREPARED BY KEN BLOOM  
NORTH CENTRAL REGION TREASURER

## **2009 North Central Region Operator of the Year Jeff Wunrow – Antigo Wastewater Treatment Plant**

In this day and age, how much a person can accomplish in a given amount of time is many the times the barometer of performance utilized in the evaluation of that persons value to an organization. The ability of not just doing what is directed, but moreover, being able to see what has to be addressed, the safe and proper way of addressing it, and successful execution of the tasks involved in the completion of that procedure, sets apart those individuals who spark what is called “leadership” in a team concept.

Jeff Wunrow joined the Antigo team in 1993. Being immediately recognized as a person of responsibility, he was assigned projects at the plant normally reserved for more experienced employees and performed exceptionally. To this day, his ability to tackle difficult tasks at the plant and pumping system in the city set him apart from his associates.

Jeff is not a man of waste. Having a clear understanding of the value of time and materials as well as the costs associated with both, he quickly and thoroughly evaluates suggested changes to the systems he works with, asks intelligent questions, listens to the



answers provided and then proceeds in the direction selected, a direction which makes the working environment better and normally at a cost savings to the City of Antigo

As is the case with all municipal employees, many weekends and holidays are not his own. Jeff accepts this fundamental fact of

his employment as matter-of-fact and in many cases provides nonscheduled free time visits to the plant to first-respond to incidents when he is needed.

Being a troubleshooter, part time electrician, plant operator, and systems analyzer are in Jeff’s mind, “just part of the job”. His often used statement being “you can’t call a specialist until you know who to call” often puts him in the lead roll as cost saver for his employer.

Being a general contractor is just another one of Jeff’s abilities. His work rivals the best installations of the equipment performed by the companies who perform this kind of work. His attention to detail and “get it done” attitude has left many equipment suppliers not only gratified that Jeff is present, but also his ability to “see” a better way of doing something has saved considerable money. Often times for the equipment suppliers as well as the city.

So it’s together with those who know, work with, and admire Jeff, that we honor him with the North Central Operator of the Year Award.

Rich Boden  
620 Bobs Drive  
Plover, WI 54467



**Wisconsin  
Wastewater  
Operator's  
Association**

# NORTH CENTRAL REGION MEETING

**Hosted by  
Merrill WWTF**

**February 2, 2010**

## Regional News

**Congratulations to Jeff Wunrow!**  
Jeff was named the North Central Region Operator of the year. Jeff works at the Antigo Wastewater Treatment Plant.

**North Central Region selected as the WWOA Region of the Year.**

The North Central Region was recognized as the 2009 Region of the Year at the 2009 annual WWOA Conference on October.

The award recognizes excellence in regional organization and significant accomplishments of the region.

Spring Meeting – Spencer  
Fall Meeting – Northern Lake Service,  
Crandon

The Steering Committee is always looking for suggestions for meeting topics or themes. If you have some ideas about interesting meeting topics, call or email any of the Steering Committee members.

**WWOA.ORG** is your source for up to date meeting notices, training events, regional and state news, facility contact information, photos, promotional items, job postings, and more.

### ***Steering Committee Members***

Lyle Lutz (2011) - Chairman  
Matt Saloun (2010) - Vice Chairman  
Ken Bloom (2010) - Treasurer  
Rich Boden (2012) - Secretary  
Ron Dickrell (2012)  
Terry Vanden Heuvel (2011)

**NORTH CENTRAL REGION  
OPERATORS' MEETING  
FEBRUARY 2, 2010  
THE ARENA BANQUET FACILITY  
1212 SOUTH CENTER AVE.  
MERRILL, WI 54452**

**8:25 Welcome Doug Williams, City of Merrill Mayor**

**8:30 Capitol Avoidance Strategies, Grant Weaver, The Water Planet Company**  
Opportunities for significantly improving nutrient removal and other operational problems without major capital investment exist.

**9:00 Capitol Avoidance Strategies, Grant Weaver, The Water Planet Company**  
Operational strategies to save money

**9:30 Break**

**9:45 Capitol Avoidance Strategies, Grant Weaver, The Water Planet Company**  
Example and brainstorming on actual plant.

**10:15 Capitol Avoidance Strategies, Grant Weaver, The Water Planet Company**  
Example and brainstorming on actual plant.

**11:00 Wisconsin Focus on Energy, Joe Cantwell**

**11:45 DNR Update Steve Ohm, WDNR**

**11:50 Business meeting**

**12:00 Lunch- Baked chicken and beef tips**

**1:00 CMOM, Jack Saltes, WDNR**

**2:00 Replace or rebuild and other time and money saving strategies, LaMont Albers, Process Equipment Repair Services, Inc.**

**3:00 Tour Merrill WWTF**

6.0 CEU's available for Wastewater & Septage

**CITY OF MERRILL**

Located in Lincoln County, our claim is to be one of the gateways to the great Northwoods. Our area is bountiful in parks, public forests, hundreds of miles of snowmobile and ATV trails and many lakes to fish and play. The mighty Wisconsin River winds through Merrill and invites you to enjoy water sports or simply gaze and enjoy its beauty. Enjoy our many scenic parks and public forest areas where Mother Nature will be sure to display her seasonal show of color and natures critters can be enjoyed. If you enjoy nature because you like to play or simply observe, then Merrill is a bit of God's Northwoods Country.

**CITY OF MERRILL WWTF**

The original treatment facilities were constructed in the early 1950's, including the current influent channels, aerated grit chamber and primary clarifiers. In the early 1970's the plant was upgraded with the addition of the activated sludge process, gravity thickener and disinfection. In the late 1980's and early 1990's plant upgrades included anaerobic digestion, belt filter presses, sludge storage facilities and phosphorus removal.

The plant is an conventional activated sludge treatment facility providing primary settling and biological secondary treatment. Primary and waste activated sludge is pumped to anaerobic digesters for digestion and stabilization. Digested sludge is dewatered by belt presses and stored on site and or placed on farm fields.

Contact Terry Vanden Heuvel, (715) (536-5263), with questions



**North Central Region  
Operator's Meeting  
February 2, 2010  
Pre-registration deadline is  
(January 25, 2010)**

Name
Company
Address
City/State/Zip
Phone
Email

WWOA Member? Yes  No

- \$20 Pre-registration
- \$25 Late Registration (postmarked after Jan. 25, 2010)
- \$50 Vender Display Fee (Registration **not** included. Contact Terry Vanden Heuvel to reserve)

Amount Enclosed \$ \_\_\_\_\_

**Please return a separate registration form for each participant. Payment must accompany registration form.**

Make checks payable to: **WWOA**

**Mail to:**  
**Terence Vanden Heuvel**  
Merrill Wastewater Treatment Facility  
1004 E. 1st Street  
Merrill, WI 54452

## **North Central Regional WWOA Meeting February 2, 2010 Merrill, WI**

The winter meeting of the North Central Region of the WWOA was held on February 2, 2010. The Merrill Wastewater Treatment Facility hosted the meeting. The meeting was held at the Arena Banquet Facility in Merrill. There were 67 attendees and seven vendor displays.

Terry Vanden Heuvel opened the meeting at 8:30 am. He introduced Doug Williams, the Mayor of Merrill. Mr. Williams welcomed attendees to the City of Merrill. He mentioned a few highlights and interesting facts about the city and expressed his hope that people would come back to visit the city again.

After the Mayor's remarks, Terry introduced Grant Weaver of The Water Planet Company. Mr. Weaver's specialty is helping treatment facilities assess their facility to make it more efficient and take advantage of existing facilities in different ways that avoid expensive capital costs to address nutrient removal and operational problems.

He began by explaining the basic principles and mechanisms of how nutrient removal is accomplished. He explained volatile fatty acid production to drive nutrient removal. He discussed how alkalinity is destroyed and recreated through the nitrification de-nitrification cycle. He proceeded to focus on anoxic zones and how they can improve plant operations and nutrient removal. He discussed simple ways to create anoxic zones such as turning blowers off for short periods of time.

After the morning break he continued with a case study of Suffield, NH and lead a group exercise to examine possible improvements to the Merrill WWTF.

Joe Cantwell, Wisconsin Focus on Energy, followed with a presentation on the programs and assistance available from FOE and case studies of improvements at various facilities.

Steve Ohm, Rhinelander DNR, Gave the DNR update. He explained the recent budget cuts and the effects they have had on business hours at contact centers, filling vacant positions, and the backlog of permits. He also updated the status of thermal rules, nutrient regulations, storm water changes, NR 151, and TMDL's.

Lyle Lutz called the business meeting to order at 12:05 pm.

1. He thanked everyone for attending today's meeting. He thanked the speakers for their presentations.
2. He thanked Terry Vanden Heuvel and the Merrill WWTF staff for hosting the meeting.
3. Lutz introduced Regional Operator of the Year recipient Jeff Wunrow, who was in attendance.
4. Lutz announced that the North Central Region was selected as the 2009 Region of the Year.
5. Lutz introduced WWOA State President Bruce Bartel. Bartel announced several upcoming events and WWOA activities.
6. Ron Dickrell announced the date of the 2010 Northwood's Collection System Seminar and some of the planned activities for the meeting.
7. Lutz called for any questions, comments, and or changes to meeting minutes from the September Whiting meeting as posted on the WWOA website. Hearing none, the minutes were accepted as printed.
8. The Treasurer's report was presented and accepted.
9. The Steering Committee held a meeting on November 17, 2009. The minutes of the meeting are posted on the North Central Region section of the WWOA website.

10. Spencer will host the next regional meeting in mid May. Northern Lake Service will host the summer meeting in Crandon. Wausau will host the 2011 winter meeting.
11. Lutz congratulated Chris Helgestad and the Spencer WWTF for receiving the 2009 Registered Lab of the Year Award.
12. Lutz and Ken Bloom gave the group a short summary of their experiences at the national operators competition at WEFTEC. They strongly encourage anyone interested to get involved in the operators competition at the State conference as a first step.
13. WWOA annual conference will be October 19 - 21 at the Kalahari in Wisconsin Dells. Registration information is available online at the WWOA website.
14. Membership for all non-members is encouraged. Benefits include discounted rates to annual convention and training opportunities, student scholarships, tuition aides, the Clarifier Magazine, the Membership Directory, and eligibility for WWOA awards.
15. Scholarships- two of \$1000 each available for either 2 or 4 year program students. Candidate must be a child or grandchild of a member and in an eligible program this academic year. More information available on the WWOA website.
16. Attendees were encouraged to nominate deserving operators for the Regional Operator of the Year Award. Nomination forms are available on the WWOA website.
17. Tuition reimbursements- Six for \$150 each academic year, credit courses or advanced non-credit seminars. Contact Wade Peterson for more information.
18. Anyone interested in having your community host a future meeting should contact a steering committee member for details. The Steering Committee members are available to provide you with as little or as much help, as you need. It is a great way to showcase your community and your facilities.
19. There was no new business. The meeting was adjourned.

Lunch was served, followed by the raffle giveaway.

Jack Saltes kicked off the afternoon session with a rousing discussion of several topics. He discussed electronic reporting including an EDMR update. He discussed the status of operator certification exams, the updated study guides, and their potential use as training materials for plant staff. He finished his presentation with a review of resources available to help develop a CMOM and a focused discussion of the collection system section of the CMAR report.

Lamont Albers Closed the afternoon with a presentation on the concept of using service life assessments to make decisions on whether to rebuild existing equipment or replace it with new equipment.

Terry thanked everyone for attending and invited everyone to tour the Merrill WWTF.

Submitted by Rich Boden, Secretary, North Central Region

## North Central Regional Meeting Registration List Merril - February 2, 2010

Albers, LaMont	Process Equipment Repair Services	Yes	Pre-Reg
Bodoh, Brian	Process Equipment Repair Services	Yes	Pre-Reg
Jurss, Scott	Process Equipment Repair Services	Yes	Pre-Reg
Naylor, David	Process Equipment Repair Services	Yes	Pre-Reg
Lamovec, Al	CTL	Yes	Pre-Reg
Bartel, Bruce	Green Bay Metropolitan Sewerage District	Yes	Pre-Reg
Garski, Russ	Neenah Papers	Yes	Pre-Reg
Collins, Bill	City of Elroy	Yes	Pre-Reg
Popelka, Scott	Village of White Lake	Yes	Pre-Reg
Duerr, Mark	Mulcahy/Shaw Water	Yes	Pre-Reg
Schill, Bill	Mulcahy/Shaw Water	yes	Pre-Reg
Peterson, Emmet R.	City of Nekoosa	yes	Pre-Reg
Schraeder, Mark	City of Nekoosa	Yes	Pre-Reg
Hall, Jim	City of Medford	Yes	Pre-Reg
Streich, Kelly	Prairie Woods & Streams	No	Pre-Reg
Mueller, Harlan	Energenics, Inc.	Yes	Pre-Reg
Brown, James R.	Bethel Center	No	Pre-Reg
Verch, Jim	Bethel Center	No	Pre-Reg
Helgestad, Chris	Village of Spencer	Yes	Pre-Reg
Dickrell, Ron	Marshfield Wastewater Utility	Yes	Pre-Reg
Christensen, Terry	Marshfield Wastewater Utility	Yes	Pre-Reg
Nowak, Jesse	Marshfield Wastewater Utility	Yes	Pre-Reg
Tauschek, Harold	Marshfield Wastewater Utility	Yes	Pre-Reg
Klunder, Patrick	Wausau Paper	No	Pre-Reg
Kasper, Kathy	USDA Forest Service	No	Pre-Reg
Meier, Dawn	USDA Forest Service	No	Pre-Reg
Volm, Rick	Marathon Wastewater Treatment Plant	Yes	Pre-Reg
Boden, Rich	Village of Plover	Yes	Pre-Reg
Lutz, Lyle	Village of Plover	Yes	Pre-Reg
Bloom, Ken	Village of Marathon City	Yes	Pre-Reg
Tyson, Al			Pre-Reg
Ohm, Steve	Wisconsin DNR	Yes	Pre-Reg
Schmidt, Andrew	Schmidt Septic Service LLC	No	Pre-Reg
Schmidt, Bruce	Schmidt Septic Service LLC	No	Pre-Reg
Schmidt, Earl	Schmidt Septic Service LLC	No	Pre-Reg
Zirbel, Paul	Rock Creek Farms	No	Pre-Reg
Hering, Troy	Rib Mountain Metropolitan Sewerage District	Yes	Pre-Reg
Thyne, Josh	Rib Mountain Metropolitan Sewerage District	Yes	Pre-Reg
Cramer, Jeremy	City of Stevens Point	Yes	Pre-Reg
Lefebvre, Chris	Stevens Point Wastewater Treatment Plant	Yes	Pre-Reg
Craven, Andrew	Strand Associates	Yes	Pre-Reg
Thiel, Scott	City of Pittsville	Yes	Pre-Reg
Veldman, Paul	City of Pittsville	Yes	Pre-Reg
Rick, John	Wausau Water Works	Yes	Pre-Reg
Martin, Eric	Tomahawk Wastewater Treatment Plant	Yes	Pre-Reg
Van De Weerd, David	City Of Tomahawk	Yes	Pre-Reg
Kriewald, Kim	City of Merrill	Yes	Pre-Reg
Landwehr, Steve	City of Merrill	No	Pre-Reg
Schill, Jason	City of Merrill	Yes	Pre-Reg
Vanden Heuvel, Terence	City of Merrill	Yes	Pre-Reg
White, Michelle	City of Merrill	Yes	Pre-Reg
Kennedy, Quinn	City of Mosinee	Yes	Pre-Reg
Eggert, Mark	William/Reid, LTD.	Yes	Pre-Reg
Kruzick, Tom	William/Reid, LTD.	Yes	Pre-Reg
Soule, Clint	L.W. Allen, Inc.	Yes	Pre-Reg
Doll, Bob	ITT Flygt Corporation	Yes	Pre-Reg

Grosch, Ray	Intellisys Information Systems	Yes	Pre-Reg
Weaver, Grant	The Water Planet Company	No	Pre-Reg
Cantwell, Joe	Wisconsin Focus On Energy	No	Pre-Reg
Saltes, Jack	Wisconsin DNR	No	Pre-Reg
Blarek, Charles	Village of Brokaw	No	On-Site
Faucett, David	Domtar	Yes	On-Site
Albers, Pete	Applied Tech	Yes	On-Site
Huza, Brian	ITT	Yes	On-Site
Folan, Dan	Village of Almond	Yes	On-Site
McNinch, Ken	City of Antigo	Yes	On-Site
Wunrow, Jeff	City of Antigo	Yes	On-Site

Process Equipment Repair Services	Vendor
CTL	Vendor
Mulcahy/Shaw Water, Inc.	Vendor
L.W. Allen, Inc.	Vendor
ITT Flytt	Vendor
William/Reid, Ltd	Vendor
Intellisys Information Systems	Vendor

**Pre-registered 60**  
**On-Site 7**  
**Vendor 7**  
**Members 51**  
**Non Members 15**

Rich Boden  
620 Bobs Drive  
Plover, WI 54467



**Wisconsin  
Wastewater  
Operator's  
Association**

# NORTH CENTRAL REGION MEETING

Hosted by  
**Spencer WWTP**

**June 17, 2010**

## Regional News

It's time for Operator of the Year nominations. Please nominate a deserving North Central Region operator.

Information on the award and the nomination forms is found at [WWOA.Org/Our Organization / Annual Awards](http://WWOA.Org/Our Organization / Annual Awards).

Deadline is July 1, 2010. Submit form to any Steering Committee Member.

Don't stop there. Nominate someone for any of the annual wards. Don't be bashful.

Mark your calendars for the Northwoods Collection Seminar, hosted by Marshfield on July 29. Informative breakout sessions, vendor displays, demonstrations, refreshments, lunch, and raffles. Take advantage of a top notch training opportunity in your own back yard. Watch for upcoming information.

Nominations for two Steering Committee seats are being accepted until July 1, 2010. Nominate another individual or yourself. Contact any Steering Committee Member for more information.

Take part in the Operator Competition at the annual conference. Contact Lyle Lutz or Ken Bloom for more information.

### ***Steering Committee Members***

Lyle Lutz (2011) - Chairman

Matt Saloun (2010) - Vice Chairman

Ken Bloom (2010) - Treasurer

Rich Boden (2012) - Secretary

Ron Dickrell (2012)

Terry Vanden Heuvel (2011)



# North Central Regional WWOA Meeting

## June 17 2010

### Spencer, WI

The spring WWOA North Central District meeting with 59 attendees was held at St. John's Lutheran Church in Spencer. The meeting started with Bettye Nall, Village President, welcoming the WWOA to the community and providing the morning refreshments.

The first presentation was by Crane Engineering Sales on pump maintenance. Vern Frahm went through basic pump terms, concepts of centrifugal operation, and how to read pump performance curves. He also covered diagnosis of common pump problems including noises (mechanical and hydraulic), low or no flow, slow/no prime or loss of prime. They also covered some of the tools to aide with diagnostics and repair of pumps.

Vern concluded his talk with some goals for preventative measures in pump maintenance. The importance of these were illustrated with lifetime cost savings and the benefits eventually passed down to the consumers.

The meeting continued with ITT's Brian Huza recognizing new technology in pumping systems and the testing associated with the new non-clog design. To expand on pumping systems, Jim Fisher talked on pump station design and setups. They were able to show how the design and layout structure surrounding pumps can effectively reduce the chance for pump plugging. Likewise, upgrades to lift stations which have included VFD's have in some instances promoted pump clogging due to infrequent stops and not allowing any objects hung up on impellers to drop off.

Chad Olson from McMahon Associates was the next speaker. He referenced the pending new phosphorus regulations which are in the process of being reviewed for acceptance by the WDNR. With the new proposed new limits being so low, advanced phosphorus removal techniques are being studied. Some of the methods of removal studied are chemically enhanced tertiary filtration, advanced chemical coagulation/flocculation with ballasted sedimentation, and phosphorous harvesting technologies. Regardless of the method tested, all involved a substantial investment to achieve the low levels that will be permitted in effluent streams.

John Strand from SEH Inc. reviewed a pilot study done for the Abbotsford Water Utility regarding a water treatment facility using surface water from a surface water supply dominated by wastewater effluent. The study was driven by the severe drought conditions of the previous years and the limited growth of Abbotsford due to limited potable water system.

Through the pilot study the water treatment facility showed excellent pathogen control which complied with drinking water requirements. The plant ran a reverse osmosis system to remove nitrates and hardness was re-instated after the process. Cost of the final potable water through their treatment was shown to range from \$2/1000 gallons up to \$10/1000 gallons. Todd, Abbotsford water operator then shared his perspective that the system worked great, but it still is a hard sell to the public knowing what the source of the water is even though it does meet all the requirements of a potable water system. Education of the public is probably to key point to getting this type of system to work and overcome the "toilet to tap" concept. Even as Abbotsford did find another location for a well, the pilot study was a success and it was pointed out that there are several communities in the western US that have similar systems to this pilot study and more likely in the future.

Eric Donaldson then reported for the DNR, informing everyone the next step of the phosphorus regulations was the legislative committee. Anyone looking for updates on the statues should contact Jim Bowman. Other DNR actions include thermal rules guidance being developed.

After a great lunch by Bob's Catering, many prizes donated by attending companies were awarded by drawing names of attendees.

Lyle Lutz called the business meeting to order. Special thanks went out to Chris Helgestad and the City of Spencer for hosting this meeting and providing the morning refreshments. The minutes from the previous meeting in Merrill were accepted as published on the WWOA website. Ken Bloom's treasures report was presented with balances as of 6/16/10. Congratulation went out to the North Central District we were selected as WWOA region of the year. Ron Dickrell announced the upcoming 3<sup>rd</sup> annual Northwood's Collection System Seminar in Marshfield on July 29<sup>th</sup> along with the pre-conference golf outing on July 28<sup>th</sup>. Another call went out for anyone interested in being on the Operator Competition team. We currently have one team of three but would put together a second if enough interest. Future meeting locations include Crandon hosting the fall meeting on September 17, 2010 and the winter meeting to be held in Wausau, date TBD. Any community interested in hosting a future meeting was directed to contact a Steering Committee member for details.

Membership for non-members is encouraged and the benefits were outlined showing saving from dues. The floor was opened to any new business and there being none, the business meeting concluded at 1:15 PM.

The final speaker of the afternoon, Steve Dvorak from GHD Inc., spoke on anaerobic digestion and reuse of dairy waste. The process of gas generation providing fuel to run an electric generator was shown to be more efficient with the FOG produced in the Dairy industry. Though interest in the North American market is increasing, this technology has become more common in Europe where energy costs have reached \$.35/KWH. One of the biggest users in the US of this technology was identified as Wal-Mart who takes waste/expired produce to energy processing center generating electricity. The product remaining from methane production has also proven to be a valuable fertilizer source.

The meeting was followed by a tour of a local Dairy operation which utilized the above mentioned anaerobic digesters to supply all the electricity and heat needed to operate the farm.

Submitted by Lyle Lutz, Chairman, North Central Region

## North Central Regional Meeting Registration List

### Spencer June 17, 2010

Al	Lamovec	CTL	Pre-Reg	Yes
Clint	Soule	L.W. Allen, Inc.	Pre-Reg	Yes
Bill	Schill	Mulcahy/Shaw Water	Pre-Reg	Yes
Bernie	Hengels	Great Lakes Underground	Pre-Reg	Yes
Scott	King	State Chemical	Pre-Reg	Yes
Charlie	Isham	Crane Engineering Sales	Pre-Reg	Yes
Mike	Raynovic	North Central Laboratories	Onsite	Yes
Tom	Kruzick	William/Reid LTD LLC	Pre-Reg	Yes
Tim	Pernsteiner	City of Medofrd	Pre-Reg	Yes
Eric	Donaldson	WDNR	Pre-Reg	Yes
Ken	Bloom	Village of Marathon	Pre-Reg	Yes
Paul	Zirbel		Pre-Reg	Yes
Jim	Verch	Bethel Center	Pre-Reg	No
James	Brown	Bethel Center	Pre-Reg	No
Mike	LaRose	Rice Lake Utilities	Pre-Reg	Yes
David	McAninch	Clark-Dietz, Inc.	Pre-Reg	No
Terry	Christensen	Marshfield Wastewater Utility	Pre-Reg	Yes
Brian	Foltz	Marshfield Wastewater Utility	Pre-Reg	Yes
Jesse	Nowak	Marshfield Wastewater Utility	Pre-Reg	Yes
Ron	Dickrell	Marshfield Wastewater Utility	Pre-Reg	Yes
Mark	Kilela	Marshfield Wastewater Utility	Pre-Reg	Yes
Harold	Tauschek	Marshfield Wastewater Utility	Pre-Reg	Yes
Michael	Danen		Pre-Reg	Yes
Russ	Garski	Neenah Paper	Pre-Reg	Yes
Harland	Higby	City of Colby	Pre-Reg	Yes
Craig	Lieders	City of Colby	Pre-Reg	Yes
Delno	Stewart	Village of Port Edwards	Pre-Reg	Yes
Ben	Martinson	Village of Port Edwards	Pre-Reg	Yes
Lyle	Lutz	Village of Plover	Pre-Reg	Yes
Travis	Dulek	Village of Plover	Pre-Reg	Yes
Casey	Werner	Ayres Associates	Pre-Reg	No
Chris	Helgestad	Village of Spencer	Pre-Reg	Yes
Joe	Scidmore	Village of Spencer	Pre-Reg	No
Gary	Kalenske	Lincoln Hills School	Pre-Reg	No
Fred	Fravert	Lincoln Hills School	Pre-Reg	No
Jon	Strand	SHE	Pre-Reg	No
Brian	Huza	ITT Flygt	Pre-Reg	Yes
Jim	Fischer	ITT Flygt	Pre-Reg	Yes
Vern	Frahm	Crane Engineering Sales	Pre-Reg	No
Chad	Olsen	McMahon Associates	Pre-Reg	No
Steve	Dvorak	GHD, Inc.	Pre-Reg	No
John	Spatz	Village of Auburndale	Pre-Reg	Yes
Scott	Rybicki	Village of Rudolph	Pre-Reg	No
Todd	Medenwaldt	City of Abbotsford	Pre-Reg	No
Craig	Bernstein	North Central Laboratories	Onsite	Yes
Mark	Eggert	William/Reid LTD LLC	Pre-Reg	Yes
Tim	Vick	Clark-Dietz, Inc.	Pre-Reg	Yes
Mark	Schraeder	City of Nekoosa	Onsite	Yes
Emmet	Peterson	City of Nekoosa	Onsite	Yes
John	Smith	City of Abbotsford	Onsite	No
Andy	Alexander	City of Abbotsford	Onsite	No
Matt	Koski	City of Loyal	Onsite	Yes
Terry	Weyer	City of Loyal	Onsite	No
Jeff	Wunrow	City of Antigo	Onsite	Yes
Mark	Bade	WI Dairy State Cheese	Onsite	Yes
Larry	Wooldridge	CTL	Onsite	No
Dan	Folan	Village of Almond	Onsite	Yes
John	Matuszyk	State Chemical	Pre-Reg	No
		CTL		Vendor
		L.W. Allen, Inc.		Vendor
		Mulcahy/Shaw Water		Vendor
		Great Lakes Underground		Vendor
		State Chemical		Vendor
		Crane Engineering Sales		Vendor
		North Central Laboratories		Vendor
		William/Reid LTD LLC		Vendor

<b>Pre-registered</b>	<b>46</b>
<b>Onsite</b>	<b>12</b>
<b>Vendor</b>	<b>8</b>
<b>Members</b>	<b>40</b>
<b>Non Members</b>	<b>18</b>



Rich Boden  
620 Bobs Drive  
Plover, WI 54467



**Wisconsin  
Wastewater  
Operator's  
Association**

# NORTH CENTRAL REGION MEETING

**Hosted by  
Northern Lake  
Service**

**September 16, 2010**

## Regional News

Volunteer to host an upcoming regional meeting. Wausau will host the winter 2011 meeting. Communities are needed to host the spring and summer meetings in 2011. Show off your community pride and your facility. Contact a Steering Committee member.

WWOA Conference October 19-22  
Kalahri Resort – Wisconsin Dells

The annual conference is coming up. Registration packets have been mailed and registration materials are available at [www.wwoa.org](http://www.wwoa.org). Activities include pre-conference workshops, technical sessions, exhibits, tours, and many other activities.

The North Central Region Operator Comp Team will compete on in the Operator Competition Wednesday afternoon. Team members are:

**Chris Helgestad - Village of Spencer**  
**Vern Williams - Rib Mountain MSD**  
**Jason Schill - City of Merrill**

They will participate in five events against teams from other regions. Be sure to spend some time at the competition an lend your support to our team.

### *Steering Committee Members*

Lyle Lutz (2011) - Chairman  
Matt Saloun (2010) - Vice Chairman  
Ken Bloom (2010) - Treasurer  
Rich Boden (2012) - Secretary  
Ron Dickrell (2012)  
Terry Vanden Heuvel (2011)

**NORTH CENTRAL REGION  
OPERATORS' MEETING  
SEPTEMBER 16, 2010**

**Crandon International Off Road  
Raceway  
10104 Highway 8 W  
Crandon, WI**

- 8:25 Welcome**
- 8:30 Sampling and Laboratory Documentation - R.T. Krueger, NLS**
- 9:15 Low Level Mercury Testing - Northern Lake Service**
- 10:00 Break**
- 10:15 Rhinelander WWTF Design – Eugene Laschinger, Town & Country Eng.**
- 11:00 DNR Phosphorus & Thermal Update Dan Peerenboom, DNR**
- 11:45 Business Meeting**
- 12:00 Lunch and Off Road Demonstration**
- 1:00 Developing an Energy Management Plan – Ray Grosch, Intellisys**
- 2:00 Alternatives for Meeting Low Level Phosphorus Limits – Steve Arant, AECOM**
- 3:00 Tour – Northern Lake Service Laboratory**

6.0 CEU's available for Wastewater & Septage

**CRANDON**

Crandon is well known for its outdoor recreation opportunities including fishing, hunting and snowmobiling with many lakes and hundreds of miles of trails. Crandon is also home of The Crandon International Off-Road Raceway, which hosts the world championship off-road races.

**NORTHERN LAKE SERVICE**

Northern Lake Service is a full-service, family-owned environmental compliance laboratory, which has been providing analytical support to wastewater, drinking water, and groundwater clients in Wisconsin since 1974.

Contact Tracy Huber, (800) 278-1254, regarding local arrangements and Ken Bloom, (715) 443-2223 regarding registration.



**North Central Region  
Operator's Meeting  
September 16, 2010  
Pre-registration deadline is  
September 9, 2010**

Name
Company
Address
City/State/Zip
Phone
Email

WWOA Member? Yes  No

- \$20 Pre-registration
- \$25 Late Registration (postmarked after Sept 9, 2010)
- \$50 Vender Display Fee (Registration **not** included. Contact Ken Bloom, (715) 443-2223, to reserve.)

Amount Enclosed \$ \_\_\_\_\_

**Please return a separate registration form for each participant. Payment must accompany registration form.**

Make checks payable to: **WWOA**

**Mail to:  
Ken Bloom  
Marathon Wastewater Utility  
104 Chestnut Street  
Marathon, WI 54448**

## **North Central Regional WWOA Meeting September 16, 2010 Crandon, WI**

The fall NCD WWOA meeting, hosted by Northern Lake Service, Inc. was held at the Crandon International Off Road Raceway on September 16<sup>th</sup>, 2010. Ron Krueger from NLS welcomed everyone to Crandon as the company provided refreshments and pastries.

Ron continued on as the first speaker of the day covering Sampling and Laboratory Documentation. Through his presentation, importance of the necessary data records to maintain accountability of reported results was shown. Documentation by chain of custody was also covered and was shown how this becomes the “paper” sample and allows a source of tracking.

Doug and Steve from NLS then continued on with Low Level Mercury Testing. They covered an overview of the entire test from sampling techniques to the detailed lab test and analysis. The element mercury and its properties were explained and shown how it can build in living organisms and the effects it can have on them.

Next Eugene Laschinger from Town & Country Engineering highlighted the design of Rhinlander's new Wastewater Treatment Facility. Incorporated into the plants construction were many new energy efficient technologies and also extensive collection system improvements. Rhinlanders upgrade was made financially feasible through stimulus funds.

The group then welcomed Dan Peerenboom from the WDNR and his presentation on the status on upcoming Phosphorus and Thermal rules. Many things are still uncertain, even to the DNR on how to enforce the proposed new limits. Details such as the possible Adaptive Management Option could provide a system of trading to allow higher discharge limits. Much concern was voiced as to the timing of these regulations and how the upgrade expenses to meet regulatory limits might not be feasible in these economic times. It was noted though that the phosphorus rule may not be imposed into a treatment facility's discharge permit for up to three permit renewals cycles.

Lyle Lutz then opened the business meeting calling for acceptance of the minutes to the 6/17/10 Spencer meeting as published on the website. Seeing none, the meeting moved on thanking Northern Lake Service, INC. for hosting and planning this meeting. Lutz also mentioned that if anyone was interested in showcasing their community by hosting a meeting to please contact a steering committee member for details. The upcoming winter meeting will be hosted by Wausau, date to be announced soon. Lutz also thanked all the speakers for sharing their presentations and all the vendors for bringing in their displays and their contributions to the WWOA. Lutz then introduced Dave Carlson from the WWOA Board of Directors, who shared details about the organization, upcoming events including the Annual Conference in Wisconsin Dells October 19<sup>th</sup>-22<sup>nd</sup>. Lutz once again recognized the NC district as WWOA's region of the year. It was also mentioned for all to stop by and see the Operator's Competition at the Annual Conference and show your support for the districts team The “Certifiable Operators”. Congratulations went out to Ken Bloom who will once again be competing at WEFTEC representing the WWOA and the CSWEA in the National Operators Competition. Even though this years award winners have already been selected, attendees were reminded to keep in mind anyone they feel should be nominated for any of the various awards for next year as nominations are accepted year round. Lutz adjourned the business meeting and everyone proceeded to a great grill out lunch put on by the NLS staff.

After lunch the meeting continued with Ray Grosh from Intellisys speaking on ways to monitor energy efficiencies or find particular areas of a facility that could become more efficient. Certain software programs are available to help track and organize data from selected time frames and provide viewing which helps the user to interpret it more effectively. Shown through examples, it is also possible to monitor plant energy loadings to track peak loadings possibly preventing excessive peak loadings which

could cost extra money for the next year because of careless startups of large demand equipment. With energy costs on the rise, the payback on energy management is a rather short period of time.

The final speaker of the day was Steve Arant from AECOM. Steve covered a range of alternatives to meeting low level phosphorus limits. Most of the advanced methods of phosphorus removal carry a hefty price tag and but will be necessary for many to meet upcoming discharge regulations.

Northern Lakes, Inc. then invited everyone to their Laboratory for a tour of the facility and they thanked everyone for coming to the meeting hosted in Crandon.

Submitted by Lyle Lutz, North Central Region Chairman

## North Central Regional Meeting Registration List Crandon - September 17, 2010

Dan Peerenboom	Wisconsin DNR	Pre-Reg	
Ray Grosch	IntelliSys Information Systems	Pre-Reg	Yes
Steve Arant	AECOM	Pre-Reg	Yes
Chris Helgestad	Village of Spencer	Pre-Reg	Yes
James Brunette	Kaempfer & Associates, Inc.	Pre-Reg	No
Robert Kurszewski	Village of Rosholt	Pre-Reg	Yes
Ted Bratton	Marshfield WW Utility	Pre-Reg	Yes
Mark Kivela	Marshfield WW Utility	Pre-Reg	Yes
Dave Carlson	City of Fond du Lac	Pre-Reg	Yes
James Krueger	Infrastructure Alternatives	Pre-Reg	Yes
Dave Koles	Infrastructure Alternatives	Pre-Reg	Yes
Mitchell Stickney	Infrastructure Alternatives	Pre-Reg	Yes
Bill Schill	Mulcahy/Shaw Water, Inc.	Pre-Reg	Yes
Ken Bloom	Village of Marathon City	Pre-Reg	Yes
Michelle White	Merrill WWTP	Pre-Reg	Yes
Shane Emmer	Lake Tomahawk Sanitary Dist. No. 1	Pre-Reg	No
Eric Donaldson	Wisconsin DNR	Pre-Reg	Yes
Lyle Lutz	Village of Plover	Pre-Reg	Yes
Eugene Laschinger	Town & Country Engineering, Inc.	Pre-Reg	Yes
Patrick Klunder	Wausau Papers	Pre-Reg	
Wayne Rychlock	Three Lakes Sanitary District No.1	Pre-Reg	Yes
Chuck Gierczak	Domtar Paper	Pre-Reg	Yes
Russ Garski	Neenah Paper	Pre-Reg	Yes
Bill Nitke	Wausau Paper Co.	Pre-Reg	No
Ken Tiefert	Jacobs Engineering	Pre-Reg	Yes
Mark Dickinson	Wisconsin Rapids WWTP	Pre-Reg	No
Joyce Nichols	Wisconsin Rapids WWTP	Pre-Reg	No
David Kelter	City of Rhinelander	Pre-Reg	
John Zatopa	City of Rhinelander	Pre-Reg	Yes
Jody Flannery	City of Rhinelander	Pre-Reg	
Ed Underwood	City of Rhinelander	Pre-Reg	
Jennifer Felch	Domtar Paper Company	Pre-Reg	Yes
Al Lamovec	Commercial Testing Laboratories	Onsite	Yes
Mike Raynovic	North Central Laboratories	Onsite	Yes
Jerry Cookle	North Central Laboratories	Onsite	
Rob Andersen	Phelps Sanitary	Onsite	Yes
Jerry Doriott		Onsite	
Tom Truog	Northaire	Onsite	
Michelle White	Merrill WWTF	Onsite	Yes
Terry Vanden Heuvel	Merrill WWTF	Onsite	Yes
Nick	Village of Whiting	Onsite	
James Kawski	Neenah Paper	Onsite	
Mark Theiler	Wausau Paper	Onsite	
Dave Hermesen	Wausau Paper - Mosinee	Onsite	Yes
	Intellisys Information Systems-Ray Grosch	Vendor	
	Mulcahy/Shaw Water, Inc. - Bill Schill	Vendor	
	Commercial Testing Laboratories-Al Lamovec	Vendor	
	North Central Laboratories - Mike Raynovic	Vendor	

<b>Pre-registered</b>	<b>32</b>
<b>Onsite</b>	<b>12</b>
<b>Vendor</b>	<b>4</b>
<b>Members</b>	<b>28</b>
<b>Non Members</b>	<b>16</b>