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# The Clarifier

WISCONSIN WASTEWATER OPERATORS' ASSOCIATION, INC.



# The Clarifier

WISCONSIN WASTEWATER OPERATORS' ASSOCIATION, INC.

## President's Message



It is hard to imagine that I am already two months into my term as President of the WWOA. Time sure flies. As President, the phone calls and emails have become more frequent

and I consider that a good thing. It means that people truly care about this organization and the wastewater profession. Keep the phone calls and emails coming; I will do my best to give you an answer and if I can't, I will try to find someone who can.

The WWOA is coming off another successful conference that was held in Green Bay. There were approximately 750 people attending this year's conference, which is a fantastic showing during these economic times as people look for ways to cut back on expenditures. Congratulations to Dave Carlson for coordinating the technical program. Dave did an excellent job in putting things together.

I hope that everyone who attended the conference had the opportunity to take in the keynote speaker, Eric Alexander. He had a wonderful and inspiring message to share with all of us on overcoming obstacles not only in your personal life, but also in your professional life. His message also told us not to allow others' doubts in your abilities to get in the way of achieving your goals. If you didn't get a chance to hear Mr. Alexander, I hope you were able to attend technical sessions that were helpful to you or had the chance to walk the exhibit area to learn more about this unique industry. If you missed a technical session or would like to review any of those you attended, you can find the majority of the presentations at [www.wwoa.org](http://www.wwoa.org). This is something new for this year and was a suggestion brought to the Board's attention last year. I personally have gone back and looked over a few of the presentations myself and have found this feature quite useful.

I had the opportunity to have a brief conversation with a couple of our fellow operators from the State of Michigan at the conference. They expressed to me how they enjoyed

the conference and how impressed they were with it. Comments like these speak volumes about the quality of the conference.

I would like to congratulate all of the WWOA award recipients that were recognized at the annual awards banquet during the conference. An impressive and very deserving list of individuals was recognized. I would ask that you please consider nominating an individual for any of the WWOA awards to be given out next year. There are many truly deserving people out there, but it takes someone to nominate these individuals for them to receive an award and the recognition they deserve.

The WWOA Board of Directors has already begun planning the 2010 Conference to be held at the Kalahari Resort in Wisconsin Dells. Planning began literally the Friday afternoon of the 2009 Conference. Randy Thater, Technical Chairperson is particularly busy in getting things ready for next year. The 2010 Call for Papers is out and in the mail to all members, but can also be found on the WWOA web site and in this issue of The Clarifier. Please give some thought to submitting a paper for consideration for a technical presentation at the 2010 Conference.

As I stated at the conference, please feel free to contact me or any WWOA Board member to give us your thoughts, comments, questions, or concerns. I can assure you that anything brought to the attention of any one of us will be discussed via emails, phone calls, or at a Board meeting. My contact information, as well as any Board members, can be found on the back page of The Clarifier or on the web site. We need as much input as possible from the membership in order for us to better serve the needs of this organization and its membership.

I would like to wish everyone a happy and enjoyable holiday season. Having lost a sister and step-dad over the last three years, I would like to remind everyone that we all have special people in our lives. Make sure you take the time during this holiday season to give these special people a hug and let them know how much you care about them. That is all for now and until next time – take care.    o

Bruce Bartel  
WWOA President



## 43rd Annual WWOA Conference October 6 - 9, 2009 - Green Bay, WI

By Dave Carlson, Technical Program Committee Chair

This year's conference is now history. In summary it was a great conference. Attendance was 769. The Pre-Conference Workshop sessions on Tuesday were well attended and we received many positive comments.

The Conference opened Wednesday morning with an inspiring Keynote Address from Eric Alexander entitled "Reaching Your Higher Summit." On Wednesday and Thursday, there were 34 technical sessions provided. On Wednesday afternoon we had the Operator's Competition. The Southern District took First Place this year. On Thursday we had the Luncheon and Annual Business Meeting. Election results are as follows: Kelly Zimmer is our new Board of Director; both Wade Peterson and Dennis Egge were re-elected; Randy Thater was elected Vice President; and Dave Carlson was elected President Elect. On Thursday evening, John Bond passed the gavel to our new President, Bruce Bartel. At the Awards Banquet, Randy Case received the George F. Bernauer Award; Kay Curtin received the Koby Crabtree Award; Jean Van Sistine received the Service Award; Jeff Duda received the Rookie of the Year

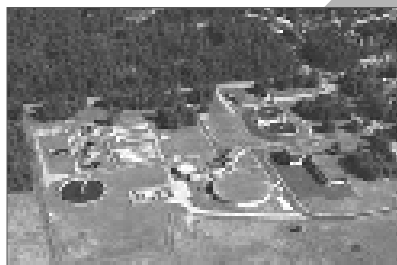
Award; and the North Central District received the Region of the Year Award. The entertainment after the banquet was provided by Magician David Seebach.

On Friday morning at the farewell Breakfast, Scott Stein spoke to us on the "PCB Cleanup on the Fox River".

On behalf of the WWOA, thank you to the Technical Program Committee, the Local Arrangements Committee, the Spouse/Guest Program Committee, the Operator Competition Judges and sponsors, the Exhibit & Manufacturers & Consultant Committee, all the Vendors who exhibited, all those who planned and organized the Golf Outing and the Sporting Clays Event, all the speakers and moderators, and those who provided technical assistance during the workshops and conference presentations.

We look forward to seeing everyone again in October 2010 at the Kalahari! ○

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## Phosphorus Standards – Coming Down the Pipe

By: Paul Kent and Julie Baldwin

Anderson & Kent, S.C. – Municipal Environmental Group - Wastewater

The DNR is currently working on a draft phosphorus rule which could have a profound impact on municipal dischargers. In its present form, costs statewide for rule implementation would be in the billions of dollars. This monumental price tag is due to the stringent limit in the current draft rule, which lowers the standard by a factor of 10, from 1.0 milligrams per liter (mg/l) to 0.1 mg/l. This proposed change has been prompted by EPA pressure to implement nutrient standards nationwide, and it is clear some changes will be made. To reduce phosphorus concentrations liter to 0.1 mg/l would require many POTWs to add filtration treatment or similar technology, a huge capital expense. Options that could lessen at least the initial impact would be interim limits, lengthened compliance schedules, or effluent trading.

The Department is hoping to request public hearings for the rule this spring. We are hoping to work closely with DNR to be sure the concerns of the POTWs are addressed prior to that time. If we cannot resolve our concerns, we will need affected members of the POTW community to attend public hearings. ○

## Answers to July Brain Teasers

Subject: Maintenance

### Introductory

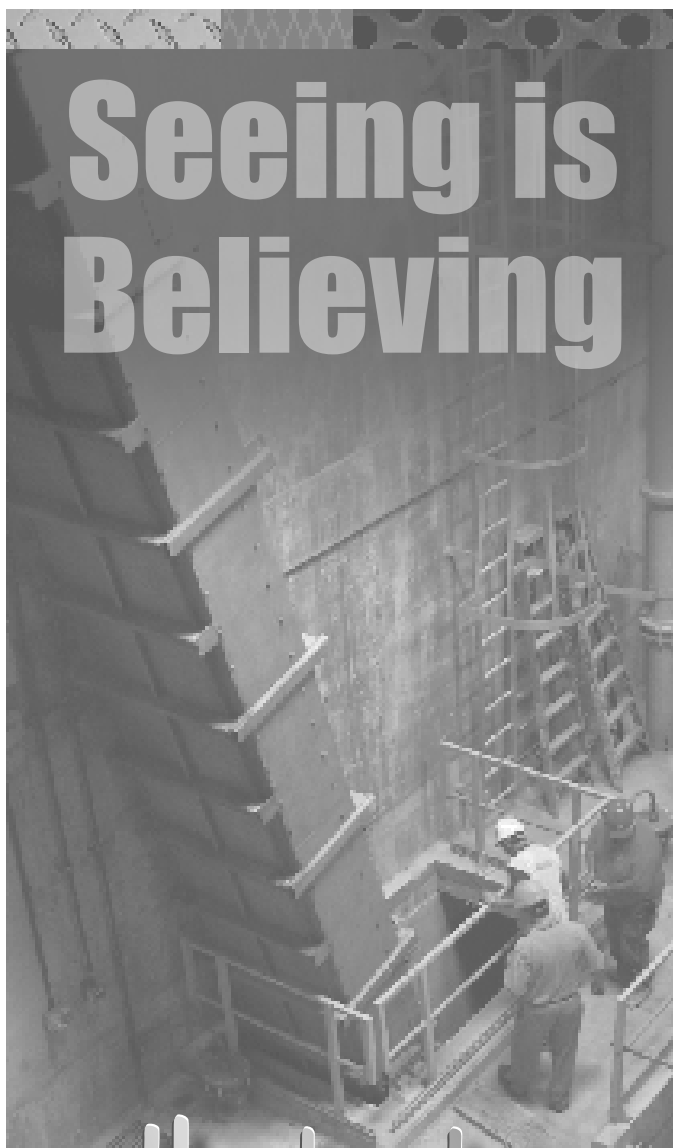
Answer: C. Low temperatures

### Advanced

Answer: D. Current, amps =  $\frac{\text{Electromotive Force, volts}}{\text{Resistance, ohms}}$

Reference: Operation of Wastewater Treatment Plants, Sacramento College, 7th Edition

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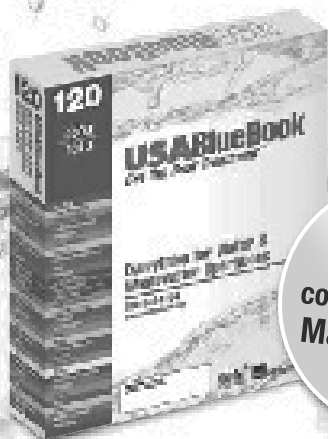
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## WWOA LMD Meeting Two Rivers, WI August 27, 2009

By George Kemmeter

On August 27, 2009, the LMD held their summer meeting at the Lighthouse Inn in Two Rivers, WI. There were 108 attendees, one of the largest attended meetings for 2009.

After registration and coffee and donuts sponsored by Donohue & Associates and Kaempfer & Associates, Greg Buckley city manager, of the city of Two Rivers welcomed the group to Two Rivers. He presented history and highlights of Two Rivers.

The first presentation was on "Regional Wastewater Treatment" for Two Rivers and the Village of Mishicot, given by both Taryn Nall and Larry Krause.

Taryn Nall, of Kaempfer & Associates, Inc. presented a summary of the planning design, and construction of the Village of Mishicot improvements to accommodate the discharge of wastewater to the City of Two Rivers wastewater management system. The improvements included upgrading and expanding the main sewage lift station for a design peak flow of 0.910 MGD, construction of a lift station support building and construction of 15,000 linear feet of 10-inch diameter sewage force main and 10,400 lineal feet of sanitary sewer. The aerated lagoon system, constructed in 1983 was abandoned. The improvements will serve the Village for a design year 2025 population of 1,825. The planning started in November of 2002 and construction was completed in July of 2008. Taryn Nall reviewed the implementation of regional treatment with the City of Two Rivers. Taryn Nall discussed keys to successful regionalization, items to address in planning and key items in inter-municipal agreements.

Larry Krause of Donohue & Associates gave a presentation on the recent improvements made at the Two Rivers WWTF. The improvements included replacement of the primary sludge pumps and thickened sludge pumps, rehabilitation of the aeration tank structure, replacement of blowers, addition of a DO control system, and rehabilitation/upgrade of the plant's anaerobic digestion facilities.

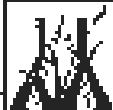
Right before the break John Schoen, chairperson called to order the business meeting. First order of business was to read the treasurer's report and review the minutes from the May 22nd meeting. Motion to accept the minutes

and treasurer's report was made and seconded. Election of new officers for Vice Chair and Treasurer/Secretary was conducted. Brian Helminger nominated Chris August from Kiel for the Vice-Chair position. No other nominations were received and Brian Helminger motioned to install Kris August as vice-chair for 2010 term and Tom Kruzick seconded the motion. The Secretary/Treasurer position, received only one nomination and election process was suspended. Brian Helminger motioned to install Bernie Hengels, of Great Lakes Underground Equipment as Secretary/Treasurer for a 3 year term starting in 2010. Tom Kruzick seconded the motion.

John made announcements to the group about:

- Operator's Competition and that LMD would like to assemble a team and let Kari Dennis know if you are interested.
- Still looking for host sites for November 2010 meeting.
- Next meeting will be hosted by Wrightstown on November 5th at Apple Creek Inn
- Bruce Bartel, WWOA State Director, informed the group about the upcoming Annual Conference in Green Bay on October 6 -10.

### Wastewater Treatment Collection Systems Sludge Management Industrial Flow Monitoring



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Dick Sachs then reported the following items during his DNR updates:

- Applications are now available for the November 4th Operator Certification exams. They can be downloaded from DNR's web site, or contact Dick Sachs to receive a copy. Applications are due October 7.
- There will be no new exams, and therefore no new study guides, for the November 4 exams. The most recently revised study guides include Lab Intro (Fall 2008) and Phosphorus Removal – Intro & Advanced (Spring 2009). Make sure you have the revised if you're planning to take these exams.

A motion was made to adjourn and seconded.

Right after break Chris Harper, national sales rep. for Robuschi Blowers, USA presented "Evolution" The Blower Package New Generation.

Chris presented new tri-lobe aeration blower technology. He emphasized low noise enclosures verses old open high noise units. He explained how variable speed drives can maximize energy savings and reviewed the installation at Two Rivers Wastewater Treatment Plant.

Next up was Ron Kau, of Siemens Water Technologies, to present "Dystor-The Premier Gas Holder":

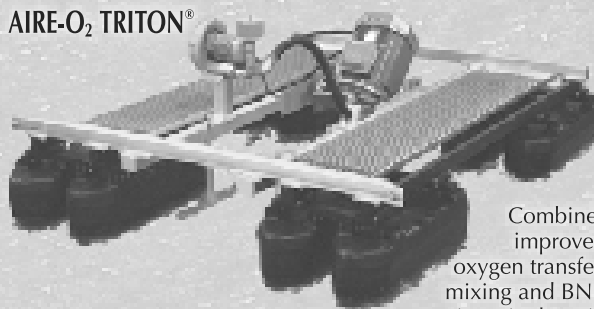
The Dystor dual membrane gas holder system from Siemens Water Technologies is an extremely versatile gas holder. It is ideal for both Primary and Secondary digesters. Its dome shaped, engineered membrane system maximizes storage of both methane gas and sludge storage, while containing odors. Combined with our professional and experienced installation, this is truly the Premier Solution to your gas holder needs by ensuring single source responsibility.

"The Dystor cover has helped our process immensely. It is very easy to operate and we have a large volume of digester gas available compared to the typical steel cover. If we still had our steel floating cover, I know we would have to supplement our boiler with natural gas because we would run out of the free digester gas. Also, with the large capacity of storage available, we burn very little of the gas we produce through our waste gas burner." ○

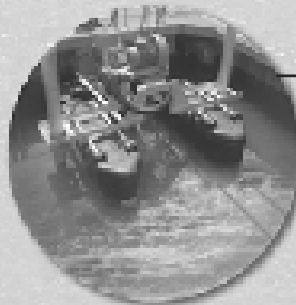
Right before lunch Jason Katch from Energenecs delivered a presentation on the Two River/RTU Upgrade, Parkway Lift Station.

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The presentation started with a thank you to Larry Lambries for inviting us to participate. Then a short review of Energenecs for those in the audience who may not be aware of who/what Energenecs is. Long term project history was noted, with documentation starting in late 2005. The project was broken down into three major 'components' for logistics purposes: Parkway Lift Station, Plant Controls Upgrade, and the RTU Upgrade. The project was designed in that order as well, with manufacture of the Parkway LS happening concurrent with design/submittal of the plant controls. There was great communication between the Engineer, customer, and Energenecs, allowing modifications to the original design intent to better suit the customers wants/needs. The RTU design occurred after delivery to site of the Parkway LS and while the Plant control panels were being built. Once the new master control panel was delivered to site and after a shop witness test, the site programming and customization occurred. RTU panels were installed, and brought online with the new RTU PLC. The customer expressed an interest in upgrading the master operator interface and was provided with a 19" touch screen that was able to 'talk' to the two separate networks (plant vs. RTU). The project was completed in time, and everyone

from contractors to engineers was still talking to one another when complete (always a sign of a well executed project).

At noon, the group was served a delicious baked chicken and sliced roast beef dinner. And the afternoon kicked off with a presentation on "What Operators Need to Know about Chemical Deliveries".

Dave Sasada of Hawkins Chemical presented a summary of what operators need to know about chemical deliveries to the plants. Dave covered the ordering and receiving of the chemical tankers and ways to increase on-site storage of water treatment chemicals.

To wrap things up Larry Lambries, Two Rivers Water and Wastewater Superintendent addressed the group with a plant overview and history along with directions to the Water and Wastewater Plants for plant tours. Chairperson John Schoen adjourned the meeting and credit slips were distributed as the attendees headed out the door. ○

Respectfully submitted by,

George Kemmeter- LMD Secretary

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# WISCONSIN WASTEWATER OPERATORS' ASSOCIATION, INC.

## 43rd Annual Business Meeting

### The Hotel Sierra and KI Center Green Bay, Wisconsin

President Bond called the meeting to order at 12:30 p.m. Roll call was taken. All Officers and Directors were present. Approximately 250 members were present.

President Bond asked Jim Miller, Secretary, and Bob VanMoer, President of Minnesota Wastewater Operators Association to stand up and be recognized.

President Bond asked for a moment of silence for all the members who have passed away in the past year.

Minutes of the October 2, 2008 meeting were presented for approval. A motion was made by John Leonhard, seconded by LaMont Albers to dispense with the reading of the minutes and to approve the minutes as written and published. Motion carried.

Executive Secretary R. McKee distributed copies of the Financial Report. McKee reminded the membership that this is an audited statement and is a 16-month statement because of the change in the fiscal year from August 31 to December 31. McKee reported the revenue for this fiscal year ending December 31, 2008 is \$215,231.39. Expenditures totaled \$278,198.00, with excess expenditure over revenue of \$62,966.61.

A motion was made by LaMont Albers to approve the Financial Statement as presented. Jim Miller seconded the motion. Motion carried.

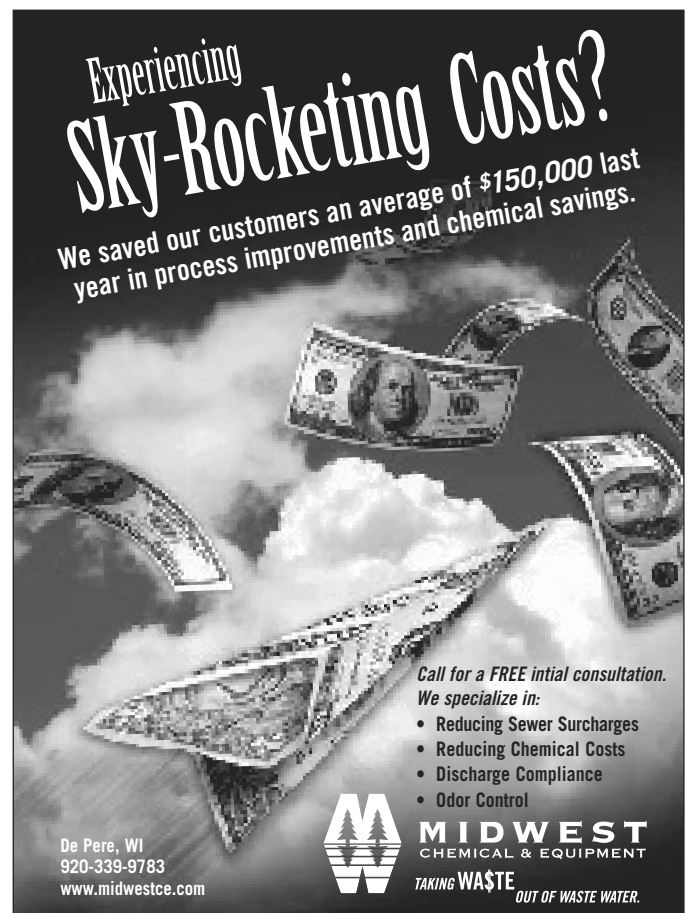
#### NOMINATIONS – ELECTION OF OFFICERS

Nomination Chairperson, Jim Thalke announced that he has one nomination for the office of President-Elect, Dave Carlson. President Bond called three times for nominations from the floor. There being none, Jim Krueger made a motion the nomination be closed and a unanimous ballot be cast electing Dave Carlson to the office of President-Elect. Dan Tomaro seconded the motion. The motion carried.

Nomination Chairperson, Jim Thalke placed into nomination the name of Randy Thater for Vice President. President Bond called three times for nominations from the floor. There being none, John Leonhard made a motion the nomination be closed and a unanimous ballot be cast

electing Randy Thater to the office of Vice President. LaMont Albers seconded the motion. Motion carried.

**ELECTION OF BOARD OF DIRECTORS** - President Bond informed the membership in attendance that we have three two-year and one one-year directorship with the election of Randy Thater to the office of Vice President. Nomination Chairperson, Jim Thalke put into nomination for directorship the following names: Dennis Egge (incumbent), Wade Peterson (incumbent), Dale Doerr (incumbent) and Kelly Zimmer. President Bond allowed each candidate to address the membership. President Bond informed the membership to vote for three, and reminded the people in attendance that only members can vote. President Bond appointed past presidents as ballot clerks. They are: Dan Busch, John Leonhard, Rich Boden, Randy Herwig, Tom Kruzick, Jim Krueger, Dale Neis, Wally Thom, and Lamont Albers. President Bond explained the three candidates



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that get the most votes will get the two-year directorship. The person with the least votes will get the one-year directorship. The vote proceeded. President Bond reported on the vote; he announced Dale Doerr, Dennis Egge, and Kelly Zimmer get the two-year directorship. Wade Peterson will serve in the one-year directorship.

Randy Herwig made a motion to destroy the ballots, LaMont Albers seconded the motion. Motion carried.

#### COMMITTEE REPORT

Technical Committee - Chairperson Dave Carlson thanked all the people on the technical committee for helping him put together the technical program. He also thanked Bruce Bartel for his work on the Local Arrangements Committee and Jean Van Sistine for a great Spouse/Guest Program. He also thanked Jim Thalke for taking care of the Sporting Clay and Jeff Czypinski for handling the Golf Outing.

Operator's Competition - Chairperson Dale Doerr reported that there were three teams this year. He thanked all the participants. Events are the same as last year: Maintenance, Collection System, Safety, and Process Control Events. The Collection event will be sponsored by Mulcahy Shaw Water; Safety Event by Vorphal Fire; Safety by JF Ahern; Mechanical Event by RDM Municipal and Vogelsang USA; NCL of Wisconsin for the Laboratory Event. Dale Doerr said that the scoring was very close, but the Southern Region (The Deuce is Loose) took First place. The members of that team are: Brian Skaif, Jeff Wellnitz and Mark Zimmerman. Dale Doerr thanked all of the judges for their help. Judges are: Bill Schill, Dan Waala, Roger Timm, Jeff Duda, Jim Gomand, Kevin Skogman, Ron Hicks, Pat Linssen, Brent Bailey, Al Zengler, Tom Tocco, Jeff Bratz, and Dawn Bartel.

Web site - Bruce Bartel informed the membership that there have been many changes to the web site. This year we offered on line registration for the conference and you can now sign up for a membership on line. There are a lot of bugs to work out, but in general it worked okay. The goal is to be totally up and running and all the bugs worked out for the next conference.

OLD BUSINESS - No old business.

NEW BUSINESS - Eliminating the election for President Elect. Chairperson of the Resolution and By-Law, John Leonhard explained the change. He explained that the Board has approved eliminating the election of the President Elect but to do so it is a By-Law and to make this change the

membership at the Annual Business Meeting must approve the change. The change is as follows: Amendment to the By-Law eliminating the election of the President Elect with an automatic progression of the Vice President to President Elect position.

After discussion, John Leonhard made a motion to amend the By-Law to eliminate the election of President Elect with an automatic progression of the Vice President to the President Elect position. Dale Doerr seconded motion. Motion carried.

ADJOURNMENT - There being no further business, John Leonhard made a motion to adjourn, LaMont Albers seconded the motion. Motion carried. The meeting adjourned at 12:55 p.m. October 8, 2009. ☉

Respectfully submitted,

Richard D. McKee



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## Pandemic Influenza - Is Your Utility Prepared?

By Julia Riley, Department of Natural Resources

Recent news headlines forecast the possibility of a more virulent form of the H1N1 flu virus spreading rapidly across the globe this fall and winter. Experts estimate a workforce absentee rate of 40% during a pandemic flu because employees are sick, caring for sick family members, or are afraid of exposure.

Help from neighboring communities through the traditional forms of mutual aid agreements is unlikely because everyone will be experiencing a reduced workforce. Utilities will need to rely on their own internal resources. When a severe pandemic strikes, it is too late to do planning and training. Now is the time to prepare!

For pandemic planning, utilities have to keep in mind that the 40% absenteeism will be random. That means a utility could end up with all administrative staff and no operators. To plan for pandemic flu and random absenteeism over a 6 to 8 week pandemic wave:

- Provide employees with your "Stay Home" or "Go Home" policy for symptoms associated with influenza to prevent the spread of illness. See guidance at: <http://pandemicflu.gov/plan/workplaceplanning/guidance.html>
- Determine essential functions that employees can perform from home or in the field to minimize the spread of illness to coworkers.
- Cross-train employees to maintain essential functions.
- Post placards on critical equipment or before essential processes with standard operating procedures or directions in simple language for the non-expert to follow to keep critical equipment and process operating.

- Identify alternate supply chains and vendors.
- Develop a communications plan for the public regarding how the utility will respond to emergencies during a staff shortage.
- Make sure employee information is updated and practice a telephone calling tree for larger utilities.

All of these pandemic planning actions should then be integrated into existing business continuity and emergency response plans. See these excellent websites for more information on planning for pandemic flu. ☉

Wisconsin's Pandemic Flu Resource:  
<http://pandemic.wisconsin.gov/>

U.S. Department of Health and Human Services:  
[www.pandemicflu.gov](http://www.pandemicflu.gov)

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### Fieldbus

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### nanoLine

nanoLine is a small programmable controller/relay with unique features such as Ethernet connectivity, removable operator display and easy flow-chart or RRL programming. The modular design allows for connections of up to 3 I/O expansion modules (RS 232, RS485, USB). It allows for easy data exchange with Modbus TCP or Modbus RTU master devices.

### Managed Ethernet Switch

Economical managed Ethernet switch supporting SNMP, RSTP, Web Based Management capability are standard features. This Switch supports applications where Multicast traffic is a concern (like Ethernet I/P), a "E" version is available with default enabled IGMP Snooping.

### SFN Switch

The SFN family of unmanaged Ethernet switches provide low cost, fully industrially hardened, entry-level switch functions with 5 or 8 ports (10/100 Mbps) in a narrow housing width. Complete range of 100 Mbps glass fiber configurations to support 1 or 2 ports with SC or ST style connectors. The new SFNT group of Ethernet switches are for applications where extreme temperature conditions (-40C to 75C) exist.

### Ethernet Modem

The Ethernet modem makes remote servicing and diagnostics of distant ethernet network devices as simple as dialing into an Internet connection. Ethernet control systems and operation panels anywhere in the world can be controlled remotely via a modem and a telephone line.

### UT Terminal Blocks

UT screw connection terminal blocks are designed in a compact profile for easy, maintenance-free handling. UT terminal blocks have a dual bridging channel for power distribution (chain, skip, step-down). Manufactured with nickel and tin plated copper alloy components to protect against corrosion and eliminate thermal expansion issues.

### WLAN Radio

IEEE 802.11 WLAN radios are ideal for high speed data networks. The high power variant of the product family provides the extra power needed in long range application while maintaining the highest levels of security and can easily form into Mesh networks. The WLAN technology opens the door to many different bandwidth intensive applications such as video surveillance, remote monitoring and control and mobile networking.

### GSM GPRS Modem

The GSM GPRS Modem is ideal for remote monitoring of alarm contact and data acquisition. The GSM GPRS modem is approved to be used on AT&T network and can easily interface with RS232 serial connections or can be used standalone to monitor digital alarm contacts. Phoenix Contact has partnered with Diversenet to allow for easy activation of the modem's SIM card on the GSM GPRS cellular network.



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# IN CONTROL

## December 2009

### Successful Operations through Process Control

By Jack Saltes, Wastewater Operations Engineer  
Department of Natural Resources



Capacity, Management, Operation & Maintenance

#### CMOM IN WISCONSIN 3. LEGAL AUTHORITY



**Legal Authority** is the third element of a Capacity, Management, Operation & Maintenance (CMOM) Program.

Adequate legal authority is the foundation of a successful CMOM program. In order to operate and maintain your sewer system, you must have certain legal mechanisms in place to do so. Legal authority provides the utility with the ability to establish sewer service charges; regulate and control the type, volume and strength of wastewater being discharged into the sewer system; to regulate grease from restaurants and institutions; to connect new developments; to plan and specify sewer design, installation and maintenance; to require private sewer inspections and rehabilitation; and to enforce with actions for non-compliance, permits, fees, and fines.

As asked for in the Compliance Maintenance Annual Report (CMAR), check those items for which you have legal authority:

- **Sewer Use Ordinance**, last revised on \_\_\_\_\_  
A sewer use ordinance is probably the most critical legal document you have for your sewer system. You should review it and your sewer user charges regularly and revise it as needed with legal counsel.
- **Pretreatment or Industrial Control Programs** (list all significant users)  
High flow and/or high strength wastes can impact the collection system and treatment plant, and thus legal controls need to be in place, either through user fees/surcharges, permits or a pretreatment program that limit such discharges.

- **Fat, Oil and Grease Control** (list all FOG contributing users)  
A Grease Control and Inspection program should be established to protect sewer pipes and lift stations from grease buildup and plugging of sewer pipes and equipment.

- **Illicit Discharges by commercial or industrial users**  
All connections to a sewer system by a commercial or industrial user should be approved for discharges as regulated through the sewer use ordinance. Sewer televising can be one tool to locate unauthorized discharges.

- **Private property clear water** (sumps pumps, roof or foundation drains)

Legal authority to inspect and prohibit private residences for pumps or drains that contribute excess



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clearwater to the sewer systems is very important in reducing inflow.

- **Private lateral inspections/repairs**

Legal authority to inspect or require inspection of private laterals and repair as needed is very important in reducing infiltration and reducing the risk of basement backups for the homeowner.

- **Service and management agreements** (list the agreements)

It is important for a utility to be able to enter into contracts for servicing equipment and/or inter-municipal agreements for operating/managing their collection systems by other entities, if needed.

- **Enforcement Actions** (discuss the steps and procedures)

An Enforcement Program and steps should be clearly spelled out, understood and documented so that in cases where enforcement needs to be taken, it is legally defensible. Legal counsel should review and approve any enforcement program. ○

## Job Opening

Wastewater Treatment Utility Superintendent - City of Monroe, WI (Population 10,950) Salary \$55K+ DOQ with excellent benefit package; high school diploma or equivalent GED, five years experience in wastewater facility operations and maintenance plus minimum of three years in progressive management or any combination of education and experience that provides equivalent knowledge, skills, and abilities; also requires valid Wisconsin Commercial Driver's license with Class A, B, D, and Endorsement N; and also WI Wastewater Operator's License Grade Level 4 with subclasses Gen, A, C, E, F, G, I, and J; residency required within a 15-minute drive of plant; responsible for all supervision, management, and coordination of the wastewater treatment plant, sanitary sewer system, lift stations and collections system operations; For more information and to obtain application, visit [www.cityofmonroe.org](http://www.cityofmonroe.org), email [cstamm@cityofmonroe.org](mailto:cstamm@cityofmonroe.org), or phone (608) 329-2524. Send resume and completed City of Monroe employment application to City Clerk, 1110 18th Ave., Monroe, WI 53566. Position open until filled.

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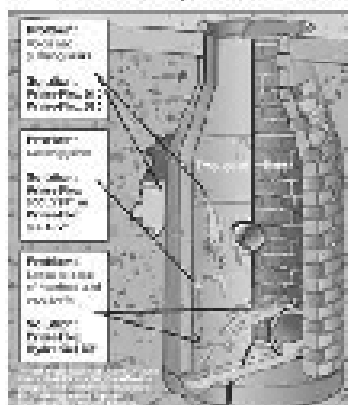
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## WWOA Conference Schedule

2010	-	Kalahari Resort, WI Dells
2011	-	La Crosse Civic Center, LaCrosse
2012	-	Kalahari Resort, WI Dells

## Dear WWOA Member:

I am often asked when membership dues need to be paid and what is the individual's membership number.

Both are determined by the Clarifier mailing label. First, if you receive a Clarifier in the mail, you are a WWOA member. Secondly, to determine your membership number and renewal date, read the top line of the label from right to left. The first four numbers identifies the year your membership expires. In the label shown below, the membership renewal year is 2010, and you should receive a renewal notice in June of 2010. If that number is a "1" that means you are Life Time member and no dues are needed. The next 3 or 4 numbers from the right is your membership number (the membership number below is "4106").

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## WISCONSIN WASTEWATER OPERATORS' ASSOCIATION, INC.

October 19, 2009

Dear Fellow WWOA Member:

The WWOA Technical Program Committee is requesting your assistance in developing the Technical Program for our 44th Annual Conference to be held October 19 - October 22, 2010. The Kalahari Resort Convention Center in Wisconsin Dells, WI will be our conference site.

Technical papers are being solicited at this time for the Technical Program. The Committee is especially encouraging members actively involved in the day-to-day operations of a wastewater facility to prepare and present technical papers at the Conference. The following are major subject areas that presentations may cover. Papers dealing with other topics will also receive consideration by the Committee.

- |                                       |   |   |
|---------------------------------------|---|---|
| 1. Activated Sludge                   | 7. Utility Management Skills                    | 13. Laboratory Practices                            |
| 2. Biosolids Handling                 | 8. Computerization & Internet                   | 14. Plant / Process Upgrades                        |
| 3. Nutrient Removal                   | 9. Industrial Waste Issues                      | 15. Utility Benchmarking                            |
| 4. Process Control and Automation     | 10. Maintenance Practices & Methods             | 16. Receiving Water Quality Issues                  |
| 5. Design Concepts and Implementation | 11. Safety & Health Issues, Personnel & Process | 17. Collection System O&M / Programs Management     |
| 6. Staff Training and Development     | 12. Regulations, Watershed Issues               | 18. Operator Ingenuity and Everyday Problem Solving |

Submit your outline(s) on the 2010 Conference Submittal Form (via e-mail, fax or mail) by **January 7, 2010** to:

Randy Thater  
Waukesha WWTP  
600 Sentry Dr.  
Waukesha, WI 53186

Phone: 262-524-3631  
Fax: 262-524-3632  
Email: [rthater@ci.waukesha.wi.us](mailto:rthater@ci.waukesha.wi.us)  
(Word file for e-submission at [wwoa.org](http://wwoa.org))

Please consider responding to this request or forwarding it on to someone who may be interested in participating. The strength of the WWOA is in the sharing of ideas and information. The success of this organization is dependent upon you the individual member. Please consider making a difference! ☺

**Sincerely,**

*Randy Thater*

**2010 Technical Program Committee Chair**

## 44th Annual WWOA Conference 2010 Conference Submittal Form October 19 – October 22, 2010

Technical Presentation Subject\_\_\_\_\_

Author(s) / Presenter(s)\_\_\_\_\_

Employer / Affiliation\_\_\_\_\_

Address\_\_\_\_\_

Email Address\_\_\_\_\_ Phone #\_\_\_\_\_ Fax#\_\_\_\_\_

Author is actively involved in the day-to-day operation of a WWTP? Yes\_\_\_\_\_ No\_\_\_\_\_

Author is an active member of WWOA? Yes\_\_\_\_\_ No\_\_\_\_\_

Brief Description of Presentation (please type or print clearly; continue on back or attach additional pages if necessary):

Submit your outline(s) on the 2010 Conference Submittal Form (via e-mail, fax or mail) by **January 7, 2010** to:

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600 Sentry Dr.  
Waukesha, WI 53186

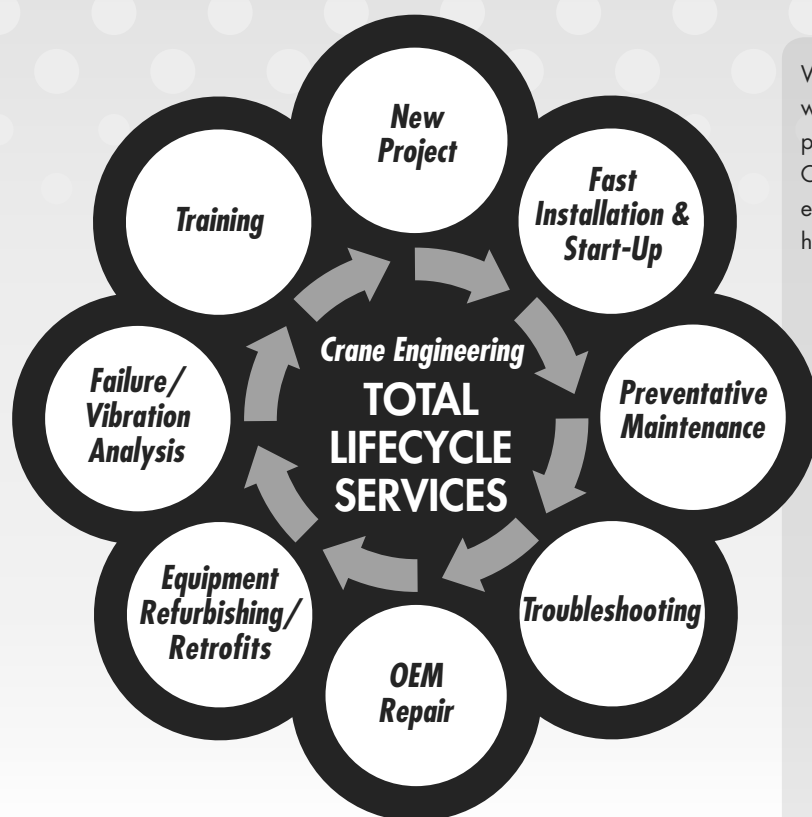
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Fax: 262-524-3632  
Email: [rthater@ci.waukesha.wi.us](mailto:rthater@ci.waukesha.wi.us)  
(Word file for e-submission at [wwoa.org](http://wwoa.org))

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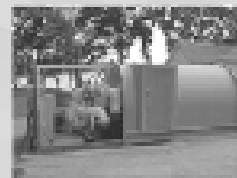


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## WWOA Sporting Clays

### First Place



*Left to right - Tom Duell, Gary Smith, Troy Hatlestad, Jim Mertens*

### Second Place



*Left to right - Dave Lefebvre, Brad Maier, Jeff Smudde, Dan Busch*

### Third Place



*Left to right - Jim Larson, Tom Stebbis, Jim Riege, Bucky Walters*

### Top Gun



*Tom Duell shot 44 out of 50*

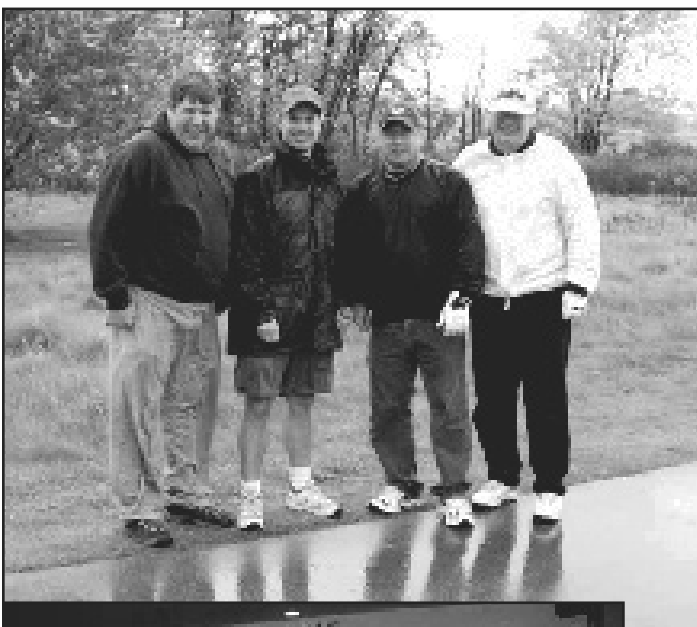
**Good Time was had by all. 60 signed up and 52 shot.**



## **WWOA Spouses Program**

The ladies are posing in front of a plane at the EAA Museum in Oshkosh, WI.

## **Golf Outing**



## 2009 WWOA AWARDS

### Bernauer Award



Recipient (left) Randy Case - WDNR  
Presenter (Right) Dan Busch

### Koby Crabtree Award



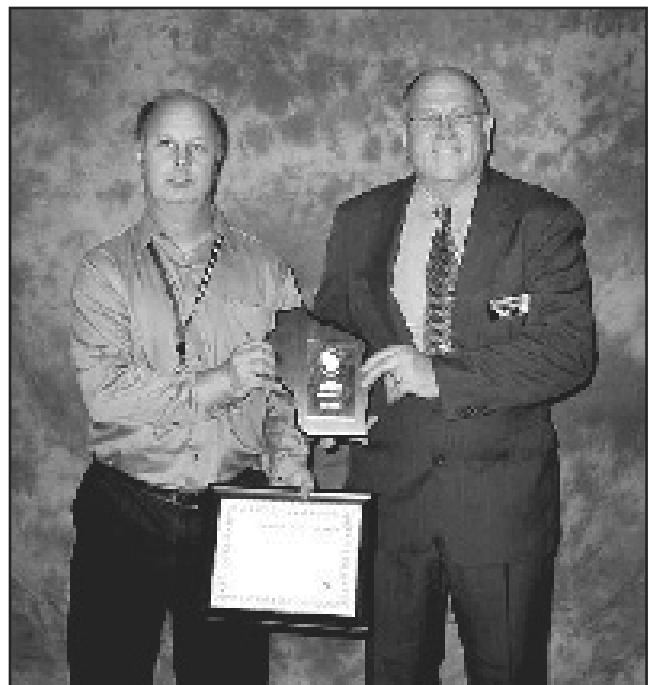
Recipient (left) Kay Curtin - Minnesota Pollution Control  
Presenter (right) John Bond

### Service Award



Recipient (left) Jean Van Sistine - Green Bay MSD  
Presenter (right) Bruce Bartel

### Newcomer Award



Recipient (left) Jeff Duda - City of Sheboygan  
Presenter (right) Dale Doerr

## Region of the Year Award



North Central: Recipients (left) Rich Boden, Terry Vanden Heuvel, Lyle Lutz, Matt Saloun, Ron Dickrell  
Presenter (right) Jim Thalke

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(left to right) Dorothy Genz, Glen Pingel, Bob Scherr, Tom Sigmund  
Not Pictured - Robert Demge, Tim Dornfeld, Dan Gibbon, Gary Hofslund, Dan Holdridge, Dan Lynch, Michael McGinnis, Randy Schaefer

## Membership Award



Recipients (left to right) Dale Doerr - City of Sheboygan,  
Dan Tomaro - Wastewater Training Solutions

## 2010 Clarifier Due Dates

<u>Issue</u>	<u>Submittal Due Date</u>
February 2010	January 8
April 2010	March 5
June 2010	May 7
September 2010	August 6
December 2010	November 5

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## 2009 OPERATORS OF THE YEAR AWARD

### Lake Michigan Region



Recipient (left) David Lefebvre - Green Bay MSD  
Presenter (right) Kari Dennis

### North Central Region



Recipient (left) Jeff Wunrow - City of Antigo  
Presenter (right) Lyle Lutz

### Northwest Region



Recipient (left) John Radloff - City of Ashland  
Presenter (right) Katie Goin

### Southeast Region



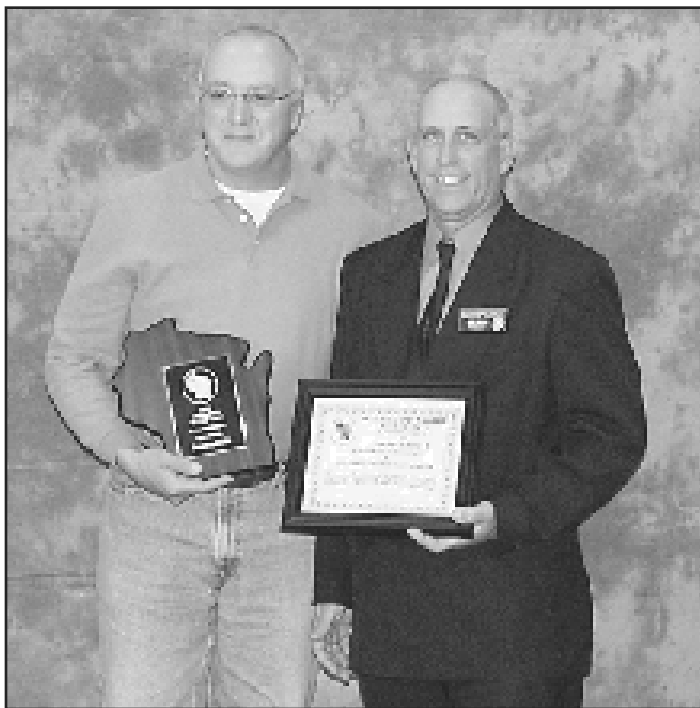
Recipient (left) Robert Wilson - City of Burlington  
Presenter (right) Jeff Deitsch

## Southern Region



Recipient (left) Don Quarford - City of Beaver Dam  
Presenter (right) Joe Zakovec

## West Central Region



Recipient (left) Dennis Holtz - City of New Richmond  
Presenter (right) John Bond

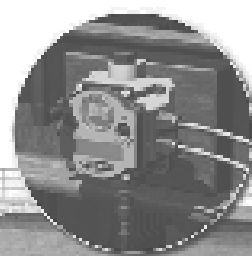
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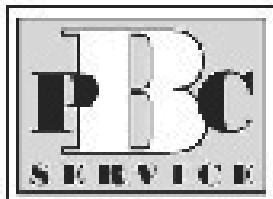
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## 2009 - 2010 Board



(left to right) Kevin Freber, Randy Thater, Dennis Egge, Wade Peterson, John Bond, Bruce Bartel, Kelly Zimmer, Dave Carlson, Dale Doerr



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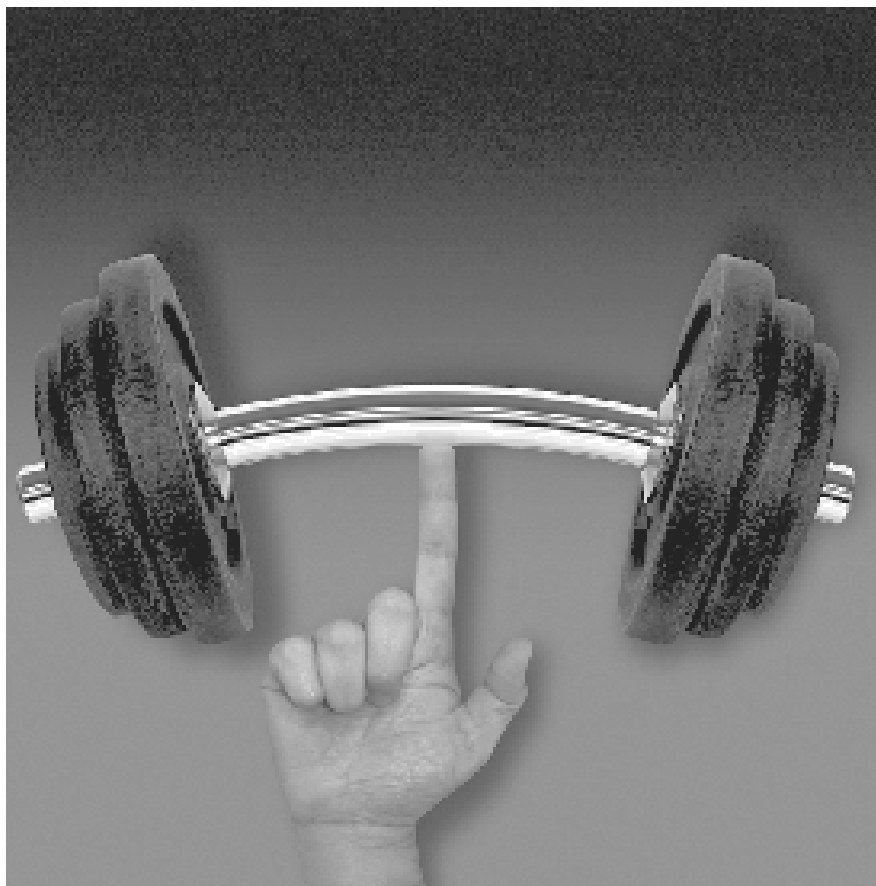


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## WWOA OPERATOR'S COMPETITION

### First Place - Southern Region



*Deuce is loose*  
(left to right) Brian Skaife, Marc Zimmerman, Jeffery Welhitz

### Lake Michigan Region




*Bay Bowl Busters*  
(left to right) Warren Howard, Holly Blazer, Matt Schmidt

### Southeast Region



*Corn Elves*  
(left to right) Jim Bergles, Don Kardecki, Dustin Stockwill


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## Operator's Competition Judges



(left to right) Jim Gomand, Kevin Skogman, Dawn Bartel, Tom Tocco, Jeff Duda, Jeff Bratz, Brent Bailly, Al Zengler, Dan Walla, Roger Timm, Pat Linssen, Bill Schill, missing Ron Hicks

## Past Presidents



Front (left to right) Kay Curtin, Dale Neis, Dan Busch, Leo Templeton, Tom Kruzick, Carol Strackbein  
Back (left to right) Pete Albers, Rich Boden, Judy Tholen, Jim Thalke, John Bond, Randy Herwig, Jim Krueger, John Leonhard, Lamont Albers, Wally Thom

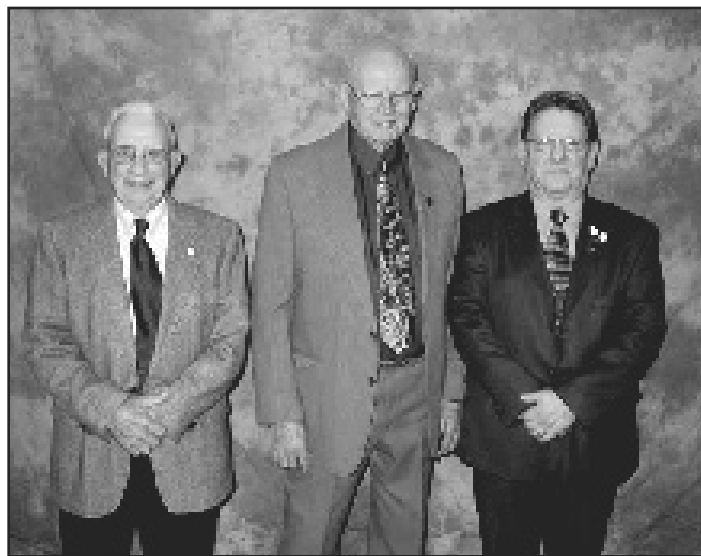
## Keynote Speaker



*Eric Alexander*

## Past WWOA Award Recipients

### Honorary Award



*(left to right) Leo Templeton, Pete Albers, Dan Busch  
not pictured - Ward Holtz*

### Bernauer Award



*(Left to Right) Pete Albers, Leo Templeton, Dan Busch, Wally Thom, Randy Case, John Leonhard*

### Past Koby Crabtree



*(left to right)  
Roy Lembke,  
Dan Busch, Kay  
Curtin, Ken  
Sedmak, Rick  
Mealy*

### Past Service



*(left to right) Dale Neis, Jean Van Sistine, Judy Tholen, Leo Templeton, Randy Herwig, Carol Strackbein, Lemont Albers*

## Exhibitor Photos

[illegible]



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## 2009 Operators Ride Goes International



The 2009 WWOA Operators Ride held July 23 - 26 was hosted by John & Judy Schulfer. The weekend began with the annual reunion and a delicious cookout at their house outside of Waupaca on the evening of July 23. Of course there were refreshing items there to cool the palate, and slake the travelers thirst. John came up with a couple of new wrinkles this year; door prizes were awarded for the following:

1. The first person to call in with his/her plan to attend: Robert Paul; Robert was given a choice of selecting from either something called "Waupaca River Whup-Ass Water" or Maple Syrup. He took the "Whup-Ass Water."
2. The first people to arrive at the cookout: Phil & Dorie Hoopman; Phil and Dorie got the Maple Syrup. Dorie was of the opinion that Phil definitely needed some sweetening up! We won't comment on the veracity of this!

Friday, July 24, began with the group leaving the motel at about 8:30 a.m. for a trip through the countryside winding down roads that probably are not on any maps and ending up in Scandinavia. No one knows how we got there, but since Schulfer was leading the ride, everyone knew that anything was possible. There, a breakfast of pancakes, bacon, French toast, numerous fruits, and salads, juices, and milk was waiting for the riders.

The next place that was passed through was Peru (No, I haven't been drinking or smoking something funny, it

really was PERU!) The group rode down roads that wound seemingly forever without seeing farm, house, or even log cabin till we ended up in - SCANDINAVIA. Passing through there, the ride continued to a place aptly named Sand-burr Corners. The next hop was to Keller Lake where a stop was made at a place strangely called "The Pigeon Coop." Leaving there, the route followed was on some pretty good roads that gradually transitioned into more and more primitive forms, the last one being so narrow that two bikes would have trouble meeting safely let alone two full-sized vehicles. However, despite the fact that it intermittently regressed into hard packed gravel, the forest on both sides provided such beautiful scenery, with the trees arching over the road to the point of actually touching each other; absolutely no one had an negative comment to make about its inclusion on the ride. This road ended up winding around a very beautiful small lake, ending up in - SCANDINAVIA!

Continuing right through town, the route wound around back roads passing fields of corn and soybeans with deer and turkey, taking advantage of the bountiful buffet, eventually sliding through the outskirts of Amherst, down County Trunk A to Highway 54 and back to the motel.

On Saturday, the group left the Elizabeth Inn at 8:30 and rode non-stop all the way to -(get this!) - DAKOTA! Yes,



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that's right DAKOTA. If you don't believe this, you are invited to observe the accompanying photo! Anyway, there we were in DAKOTA EATING AT THE DAKOTA INN, having a breakfast of sausage, eggs, biscuits, and other breakfast type things. Leaving there, we were just as quickly back in good-old Wisconsin again, making a gas and picture (group shot) stop in Wild Rose from whence it was a relatively short hop via the most circuitous route imaginable to Mount Morris for a stop at a place called the Trading Post. This stop pretty much concluded the Operators Ride for this year, since on leaving there, the route was back to the motel to get ready for the banquet.

The Banquet was a tasty meal followed by the annual Reidy Awards and storytelling session. The Professional Operators Ride 2009 safely concluded with drawn out goodbyes and the promise of the 2010 event. ○



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## World Water Monitoring Day™ kits provided by WWOA and CSWEA – Wisconsin Section are used to teach students about the importance protecting our water resources.

By Dale L. Doerr WWOA Board of Directors and CSWEA - Wisconsin Section Public Education Committee Chair

### What is World Water Monitoring Day™?

World Water Monitoring Day™ is a coordinated effort of the Water Environment Federation (WEF) and the International Water Association (IWA) designed to build public awareness and involvement in protecting water resources around the world. Developed as an international outreach program, WWMD heightens public awareness of water quality by engaging citizens in basic monitoring of their local water bodies. WWMD test kits are easy-to-use which enables everyone from children to adults to sample local water bodies for a core set of water quality parameters including temperature, acidity (pH), clarity (turbidity) and dissolved oxygen (DO). World Water Monitoring Day™ is officially celebrated on September 18; however, the monitoring window extends from March 22 (World Water Day) until December 31.

In April 2009, WWOA and CSWEA provided funds to purchase 104 WWMD test kit for distribution to Wisconsin schoolteachers. While the request for kits far out numbered the number of kits available, WWOA members volunteered to deliver the WWMD kits to 36 schools from across the state. WWMD test kits were delivered to schools in Drummond, Solon Springs, Mazomanie, Portage, Pulaski, Rosholt, Stevens Point, Beloit, West Allis, Milwaukee, Kenosha, Elm Grove, Cuba City, Sheboygan, Wauwatosa, Markesan, Hurly, Eagle River, Augusta, Independence, Mequon, Kewaunee, Sauk City, Waupun, and Pulaski. In addition to delivering WWMD kits to the schools listed above, WWMD kits were also provided to the Elwood H. May (Maywood) Environmental Park in Sheboygan, Wisconsin to be used in their water education program.

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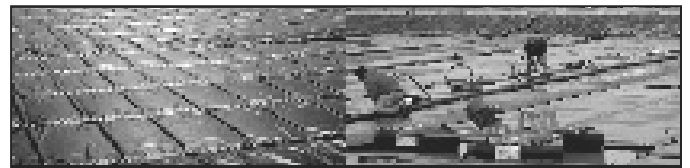
*The Pigeon River at Maywood*

"Maywood" Environmental Park is a 135-acre site that is part of the City of Sheboygan park system. Maywood is open to the public, free of charge, year-round. The park is bursting with biodiversity, environmental education opportunities, outdoor recreation, and hands-on experiences. The Maywood Environmental Park is an integral portion of the Pigeon River Environmental Corridor that is dedicated to promoting environmental stewardship through real life experiences, for all ages and interests. The Pigeon River Watershed is the northernmost watershed in the Sheboygan River Basin. Nearly half of the 100 square mile drainage area is located in Manitowoc County, while the other half is located in the northern portions of Sheboygan County. According to a WDNR report issued in 2003 water quality in the Pigeon River watershed is considered good in the headwaters area, and fair to poor in the lower reaches.

On Monday, October 19, 2009 approximately 30 students from Oostburg Middle School in Oostburg, WI traveled to Maywood Environmental Park in Sheboygan Wisconsin to learn about the importance of maintaining our water resources for future generations to enjoy. The students participated in classroom training that defined the Pigeon River watershed and the impact that different types of development has on water quality. After completing the classroom training, the students ventured down to the



*Oostburg Middle School Students testing water from the Pigeon River*



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*Pigeon River Turbidity Test*

banks of the Pigeon River to learn first hand about aquatic species so dependent upon clean fresh water. With the help of Naturalist Rebecca Clark and Education Specialist Jessica Johnsrud, the students used the WWMD test kits to analyze water samples collected from the Pigeon River.

The test results obtained by the students indicate that the water quality of the Pigeon River at Maywood is good. The water temperature was 18 °C or 65° F, the D.O. was between

6 and 8 mg/l, the pH was between 7 and 8 S.U. and the turbidity was 40 JTUs .

Maywood Park Director Dave Kuckuk is grateful to WWOA and CSWEA for donating the WWMD test kits to Maywood. Kuckuk says that the WWMD test kits provide us with another tool to educate our youth on the importance of protecting our water environment.

Below are some of the comments from the teachers that received the WWMD kits:

“The kits were an excellent tool to help teach the students about water quality, field skills, and basic science data collection techniques. The classes tested water in three different locations, assessing turbidity, acidity, and oxygen levels. They compared their findings and made conclusions. The kits were easy to use and well organized. It was a popular activity among the students. Even the youngest students learned how to read a thermometer and pH strips. Thanks for making them available.”

**Amy Luebke**  
**Portage Community Schools**

“We tested on Bugle Lake in Independence, WI, various locations along the Elk Creek between Independence &

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Elk Creek, as well as my farm pond near Arcadia, WI. I am planning on recording the results, and see how they change over different seasons and over the course of time. I am hoping a student will take this on for an Agriscience project and submit it to the state level for FFA recognition. I have a few more tablets left that we didn't use, and am planning on using them with my middle school students in the next week or two. Once again, thank you for your kind donation of supplies, and educating 1000's of students (and educators) about the importance of water quality."

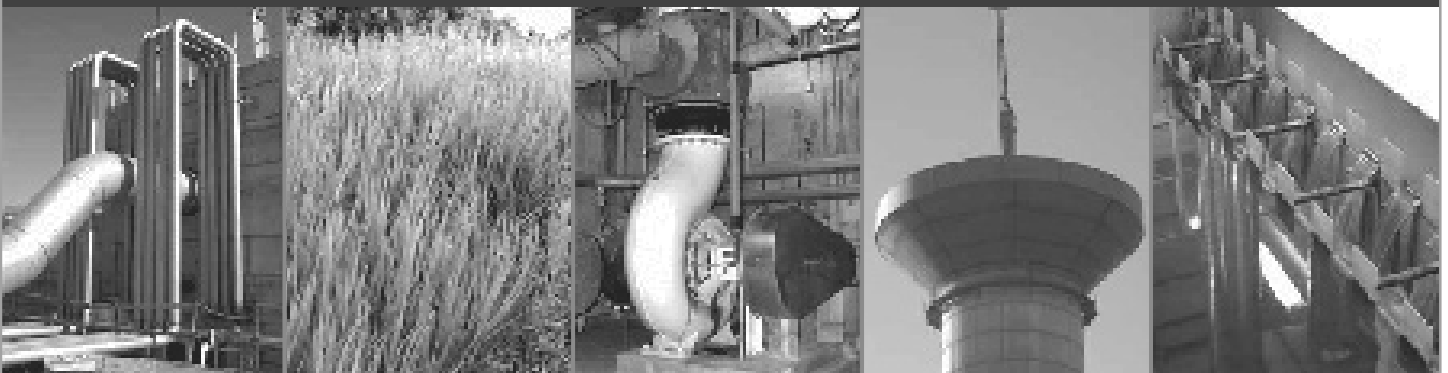
**Jason Hovell**  
**Agricultural Science Instructor**  
**Independence High School**

"Students in my Rosholt High School classroom tested water in Flume Creek, a DNR-recognized trout stream in northeast Portage County. In Rosholt, it has an upper and lower section split by an impoundment created by an earthen dam. Students used the kits to determine the effect the impoundment has on water quality. Above the impoundment, students found lower water temperatures, higher dissolved oxygen levels, and lower turbidity when compared to the same factors below the impoundment. They found that pH levels were not significantly affected



by the impoundment. The students then sampled macro invertebrates both above and below the impoundment to determine water quality and learned that the water above the impoundment was of good water quality, while the water below the impoundment was of moderate quality. The kits provided helped the students determine that

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impoundments can have a detrimental affect on water quality and they enjoyed the hands-on learning experience. Thank you for providing them.”

### **Randy Berndt Rosholt High School**

While these are just a few of the comments received from teachers that used the WWMD kits, there were many more comments thanking us for providing the WWMD kits. From the comments received it does appear that providing the WWMD kits to schools across the state has taught Wisconsin school children about the importance of protecting Wisconsin's valuable water resources. The WWMD test kit includes everything you need to complete 50 tests for temperature, pH, turbidity, and dissolved oxygen. The kit also includes an instruction booklet in English and Spanish, a Color chart for determining DO, pH and turbidity test results and a Material Safety Data Sheet (MSDS) for the chemicals provided in the kit.

If you would like more information on World Water Monitoring Day™, or you would like to purchase WWMD kits for a scout group or a school in your area, please visit the WWMD website at <http://www.worldwatermonitoringday.org/index.html>

A special thanks to the following WWOA members that delivered the WWMD kits to the schools. Jim Beier, Tom Mulcahy, Steve Godfrey, and Tom Kruzick ○

## **GBMSD selects Symbiont**

The Green Bay Metropolitan Sewerage District (GBMSD) has selected Symbiont to provide professional services to assist with developing a Sustainability Program to enhance GBMSD's decision making process. GBMSD and Symbiont will use education and innovation to develop a program to improve GBMSD's operational performance, reduce its carbon/water foot print, and engage its workforce. All part of its Strategic Plan, GBMSD will incorporate triple bottom line strategies into its decision making process so that current and future generations are able to meet their needs without GBMSD having to compromise its wastewater treatment rate, environmental performance, and quality of life for its communities.

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## **WWOA Newcomer**

Hello to everyone reading this. My name is Jeff Duda and I was extremely fortunate to have recently been awarded the Newcomer of the Year Award at the recently completed WWOA convention. I had no idea that I had been nominated, and when I heard my name, I was stunned. I went up to receive the award and had nothing ready to say to all the people that were there.

I am taking a moment now to thank those that should have been thanked that night. I need to thank my bosses (Dale, Ron, and Al) for the opportunity to work at the Sheboygan WWTP, and all the help and guidance they have given me. My fellow operators – Randy, Willard, Dan, and Scott – thank you for all your teaching, support and belief in me to help make this award happen. To the mechanics – Tony, Sarge, and Bill – thank you for all your help on the technical end of operations. To Steve, Rich, Tim, Tom and Barb, thank you for being supportive and being there when I needed help. Lastly, to my wife, Sandy; son, Dan; and daughter, Erica; and parents, Tony and Phyllis; thank you for always believing in me and supporting me and loving me as much as you do. This award is a part of all of you. ○



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## WWOA SE District Summer Meeting Burlington, WI August 12, 2009

If there ever was a day and place to host a meeting, this was it. On August 12, 2009 the SE District held its summer meeting at the Burlington Wastewater Treatment Facility. The weather does not get any better than what we had this day. It was dry, sunny, slight breeze, with plenty of vendors and attendees. We had 22 vendors and over 106 attendees for the day. Connie Wilson and her staff had the facility looking great and set up to accommodate plenty more people if they had arrived.

At 8:15 Chairman Piquett called the meeting to order and introduced the Village Administrator, Kevin Lahner. Mr. Lahner welcomed everyone and gave a brief description of Burlington and its assets. One of the assets I noticed was their location just down the street from Nestles. I think this had a lot to do with the center piece on each table, a nice bowl of chocolate candy bars from Nestles. In closing, Mr. Lahner was thankful for the sewerage plant. He mentioned how his boys have been hooked on science after their tour



*Kevin Lahner, Village Administrator*

of the plant. Imagine if each plant gave one tour a year, and from that, one child became more interested in the science of clean water?

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*Electrical Systems from Sturtevant, WI*

Mr. Piquett thanked Kevin and then introduced the first speaker. Our scheduled speaker needed to cancel so a stand-in was attained. Frank Tieffert from Applied Technologies filled in. Mr. Tieffert went into the design of Burlington's upgrade and how they came up with the current additions that were done to the plant. The rebuild of the anaerobic digester was very interesting. There were some great photographs of the digester with the cover removed. Frank explained what was needed to bring the digester back into operation. A few questions were asked as to the gas collection system and what would be the payback from it. These needed to be answered by the designer, so Frank had to pass on them.

Speaker two was Electrical Systems from Sturtevant, Wisconsin. They are the front runners in renewable energy in Wisconsin. Jay Datt opened the presentation with who he is, and what the company does. He then let two of his designers speak and they covered a multitude of areas. The most interesting was the light audit before and after the installation of the LED's. This showed the vast difference in Mercury Vapor lights vs. LED's. The parking lot they refitted with LED's showed a great improvement over the old lights. The reasoning behind this is the wave length the different lights operate in and how they affect the rods and cones in the back of your eye. If you would like more specific information you will need to give them a call. I know my plant is currently looking at replacing our burned out yards lights with LED's. I just need to sell the idea to the board. If you are interested in solar, LED lighting, wind power, or solar water heating, give them a call for more information

After Electrical Systems presentation we had our first break. With the multitude of vendor's one site, it was like a mini



*Vendor Display*

trade show. Thank you again to all the vendors that came and supported the meeting.

Our next speaker to take the mic was Cheryl Masmanian. She is the current health officer of Western Racine County. Her topic was the swine flu and regular flu. If have been on a deserted island for the last two years you would more than likely have never heard of it. Otherwise it is the hot topic now. Cheryl covered how it is transmitted and what are the best practices you can do to prevent from contracting it. Wear your proper PPE when working with raw sewer and wash, wash, wash your hands are real good starts. Cheryl fielded a few questions and then we went into the business meeting.

Our business meeting followed the normal traditions of a business meeting. No shoes were thrown, no filibusters, and no investigative committees were seen. We did have election of officers for the vacant positions for 2010. Paul Gagas won his re-election by a landslide victory for the position of secretary. Thank you for doing a second tour Paul, keep up the good work. Jeff Deitsch is still our treasurer and we are glad to have him in that spot. He has done a great job since he has taken that position and we look forward to more years of service from him. Our Vice Chairman spot was a tightly contested race that was won by Dave Boogie. Congratulations to Dave and we look forward to having him as an officer. The chairman's position that has been held by Dave Piquett for the last year will be filled by me as Dave's term ends this year. Thank you Dave for being an officer in the SE District, it was another job well done.

Chairman Piquett then called Burlington's Superintendent Connie Wilson up to the podium and thanked her for



L) Burlington's Superintendent Connie Wilson; (R) Chairman Piquett

hosting the meeting. She was then presented with the honorary plaque for putting up with all of us. Actually the plaque was a thank you for the hard work she and her staff did to prepare for the meeting, and that they did. The place looked great and was set up very well to accommodate the crowd in attendance.

To close the meeting we had a few public comments, the DNR update, and a list of the upcoming events. The main one is the upcoming state convention in October. Thus the business meeting ended and lunch was served. It was a fine pork chop and turkey dinner prepared by Burlington's in house master chef Kerry. Great job on the chops and turkey!

Once the food table was picked clean it was time for the tour of Burlington's plant. Seeing the meeting was held right at the facility, no maps or directions were needed. Burlington is in the very last stages of tightening up the



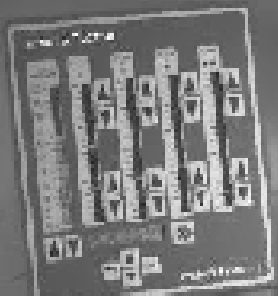
Burlington's Plant

loose ends from their current upgrade. There was plenty to look at. The two items of special interest to me were the bio towers and the bio gas system. The bio towers I have only read about. So being able to go up inside and actually see them in operation was a very interesting. The two towers help Burlington treat some very strong BOD that comes in from their collection system. I should have asked how much the larger the plant would have needed to be if the towers were not in place?

The bio gas system was in place but had not been started up as of the meeting date. It sure looked nice all shiny and new. They expected it to test fired within the next week. So far I have not heard of how it is running or how the start up went? The next time I talk to Connie it will be one of my first questions. Burlington has a large plant that had plenty to look at. If you missed this meeting you missed a good tour.

In closing I would like to say thank you again to Burlington for hosting the WWOA meeting and thanks again for a job well done. Got any pork chops left? o

Respectfully Submitted 9/29/09  
By Vice Chairman James Bergles



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## West Central District Meeting Merrillan – August 19, 2009



On August 19, 2009, the West Central District summer meeting was held at the Castle Hill Supper Club in Merrillan, Wisconsin. Approximately 40 people attended.

The meeting started off with the Mayor of Alma Center welcoming everyone. Paul Sterk, the Vice-Chairman of the West Central District, conducted the business meeting in place of the Chairman, Steve Skinner, who was unable to attend. Paul mentioned that the WCD would like to put together a three person team for the operator competition at the state conference in October. Anyone interested should contact Steve Skinner or Paul Sterk. The WCD is also looking for someone to host the three WCD meetings in 2010. Paul then asked for someone to volunteer to be the Vice-Chairman of the WCD for next year. Tom Grunewald of Boyd came forward and said he would accept the Vice-Chairman position for 2010. Paul mentioned a benefit golf outing in Roberts, WI on August 21st for Kay Curtin.


The first speaker of the morning was Greg Kilgore of ESS. ESS is a company that does manhole rehabilitation to reduce inflow and infiltration (I/I). Greg gave a definition of inflow and infiltration and talked about the problems associated with I/I, for example, increased operational cost at the treatment plant, street damage, etc. Greg said that 25 to 60 percent of all flow at wastewater treatment plants is due to I/I. Greg then spoke about two manhole repairs that his company offers that will reduce I/I. The first is external rubber seals. These are ideal for new installations, they are UV resistant, they install in less than 10 minutes for a cost of about \$150. The other option that Greg mentioned is the Flex Seal which is an internal seal kit. It is a urethane internal seal coating that is applied to the inside of the

manhole. First, the manhole surface must be prepared by sand blasting. Next, a primer is applied, and then the two part urethane is mixed and applied. One kit covers about 12 inches of vertical manhole depth at a cost of about \$165 plus \$100 for labor.

The next speaker was Mike Happel of Flow-Rite Pipe and Sewer Services based in Galesville, Wisconsin. Mike mentioned the many services that his company provides including hydro jetting, sewer line cleaning, and pipe line video inspection. When televising lines, Flow-Rite provides the customer with a DVD video of all lines televised plus a printed version showing a line diagram with measurements and photos of all connections and problem areas.

Two WWOA directors, Randy Thater and Wade Peterson, were in attendance at the meeting and took the stage to make a few announcements. They spoke about an upcoming phosphorus class that is being organized through the WWOA, WWOA scholarships that are available, changes to the WWOA website, and the Operators Conference in Green Bay and the Operator Competition event. ●

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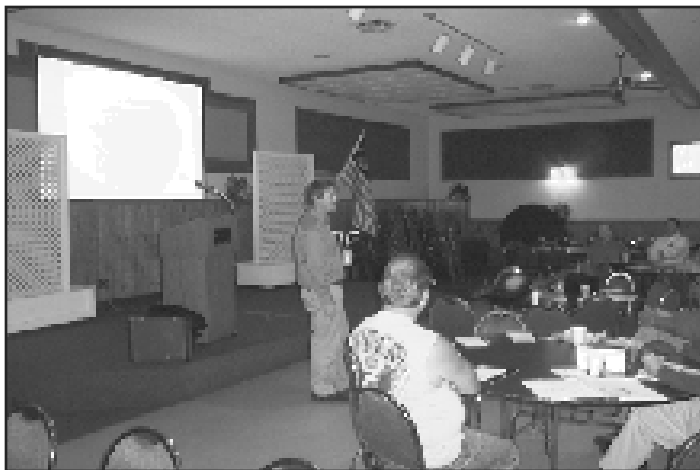


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Tom Fitzwilliams of MSA Professional Services spoke about copper removal using chemical precipitation. Tom talked a little about copper itself, what the sources of copper are, and how it can be detrimental to aquatic life. Tom then went on to talk in detail about two copper case studies that were conducted by MSA. In summary, Tom emphasized that the first step is source control of copper, low effluent total suspended solids is critical to lower copper concentrations, and chemical precipitation is best suited as a polishing step.

Joe Kniseley of HD Waterworks Supply talked about the

latest improvements to water meters. Joe said that the bases of water meters have not changed much since the 1970's and that most of the improvements to water meters have been with the meter registers. Joe said now that is beginning to change with the Sensus Omni and iPerl water meters. The Omni water meter has several advantages over previous flow meters. The Omni meter uses floating ball technology, it has improved accuracy, expanded flow range, a simpler design, it contains no lead, it has an electronic register, it can store lots of data, it can be mounted in any orientation, it is a better value than previous designs, it has an iron body with a built in strainer, a built in test port, dual register outputs, and it replaces compound meters. The iPerl is another new meter by Sensus that will be unveiled next month. It is a new residential mag meter with no moving parts, it is battery powered, the 1" model is accurate to 55 gpm, it has better low and high flow ranges, and it is lead free. Joe then went on to talk about automatic meter reading and how operators can use this technology to collect more information in less time.

The last speaker of the day was Jerry Doriott of SEH. Jerry's topic was ammonia removal from wastewater. Jerry started out by explaining the problems that ammonia causes and the various forms that ammonia is present in. Jerry

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then went on to explain the various treatment options for ammonia removal such as extended aeration for activated sludge plants and recirculation for attached growth plants such as trickling filters. Jerry stressed that meeting ammonia limits is very possible and operational changes and/or adding acid to lower the pH in order to increase the ammonia limit may be necessary.

Thank you to all of the speakers, vendors, and to those who donated door prizes for the meeting. ○

Paul Sterk, Vice Chairman, West Central District, WWOA

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# WWOA Board of Directors Meeting

## Friday, August 14, 2009

### Hotel Sierra and KI Center, Green Bay, WI

1. President Bond called the meeting to order at 10:15 a.m. on Friday, August 14, 2009 at the Hotel Sierra in Green Bay. Roll call was taken: Board members present: J. Bond, J. Thalke, B. Bartel, W. Peterson, D. Egge, R. Thater, D. Carlson, K. Freber, and D. Doerr. Troy Larson from Strand Associates was also present to discuss conference signage.
2. A motion by Thater, seconded by Carlson, to approve the minutes of April 16 & 17, 2009 as corrected. Motion carried.
3. McKee presented the Financial Statement for the Board review and approval. McKee stated that as of August 1, 2009, the WWOA had revenue of \$51,935.26 and expenditures of \$64,752.09 with excess expenditure over revenue totaling \$12,816.83. Review of vouchers 42-96, for a total of \$52,312.68. After discussion, Doerr made a motion to approve the Financial Statement and Vouchers and Egge seconded the motion. Motion carried.

#### 4. COMMITTEE REPORT

- a. NOMINATION- Thalke reported there are three directors to be elected at the annual business meeting for a two-year term. The three two-year director positions will be occupied by the top three vote getters. Thalke reported that he has received nomination papers from Kelly Zimmer and Wade Peterson, and a verbal commitment from Dennie Egge and Dale Doerr. Randy Thater has submitted nomination papers for Vice President and nomination papers from Dave Carlson for the position of President Elect. If Thater is elected Vice President, there will be a fourth one-year director term to be filled. This would go to the fourth highest vote getter.

The Board of Directors has approved at its December Board meeting to eliminate the election of President Elect with the Vice President position automatically transitioning to President Elect. The Board's action will have to be brought before the membership for approval because it is a by-laws change. The Board instructed McKee to place this item on the Annual Business Meeting agenda.

- b. AWARDS - Bartel reported that he has three nominations

for the Crabtree Award, one nomination for the Bernauer Award, one nomination for the Service Award, and one nomination for the Newcomer of the Year Award. Bartel informed the Board that North Central and Southeast Regions have submitted their nominations for Operator of the Year and the West Central and Lake Michigan Regions have nominations, but have not submitted their final selections. The Southern and Northeast Regions have not submitted their Operator of the Year selection.

- c. TECHNICAL PROGRAM - Carlson reported that all the biographies and abstracts have been received for the speakers. All the abstracts have been typed and sent to AECON for printing. Troy Larson of Strand Associates will be doing the signage for the conference again this year. Keynote Speaker Eric Alexander, Magician Dave Seebach, and Scott Stein, speaker at the Farewell Breakfast, have all confirmed and are ready to go. Carlson has requested WDNR credit slips be sent to McKee. The Moderator Packets are being prepared. Carlson has requested that all presentations be sent to McKee to be pre-loaded on the lap tops.
- d. CONFERENCE - Troy Larson reviewed the signage needs for the conference.
- e. LOCAL ARRANGEMENTS - FEECO International/ ENCAP and Heart of the Valley Metropolitan Sewage District will be the tour sites. Sign up will be at the Registration area. The Mayor of Green Bay will give a welcome address to kick off the conference.
- f. SPOUSE AND GUEST PROGRAM - Bartel reported for Jean Van Sistine. Wednesday there will be a continental breakfast for the spouses and guests sponsored by Donohue & Associates. All spouses and guests are invited to the Keynote and the Walk around lunch on Wednesday. At 10:30 a.m. Marcia from the YMCA will teach a Zumba class at the KI Center. They will then board a bus for a trip to Green Bay Botanical Gardens.

On Thursday, a continental breakfast will again be provided, sponsor yet to be determined. At 8:30 a.m. the spouses and guests will board a bus for the EAA Air Venture Museum for a one-hour tour and 20 minutes



movie. At noon they will have lunch at the Air Academy Lodge.

After lunch they will tour The Paine Art Center & Gardens for a one hour and return to the KI Center by 4:00 p.m.

- g. **GOLF OUTING** - The golf outing will be held on the Tuesday of the conference. The outing will be held at Royal St. Patrick's Links in Wrightstown. Cost of the outing is \$65.00 and includes ½ motorized cart, 18 holes golf, buffet lunch at the turn, two drink tickets, Hors D'oeuvres and cash bar during award/prize drawings at Royal St. Patrick's Club House.
- h. **SPORTING CLAYS** - The 3rd Annual Sporting Clays Event will be at J & H Game Farm Located near Shiocton on Oct. 6. The same format as last year is planned for this year. Last year's vendors will have first chance at sponsoring a stand. Troy Larson from Strand and Associates will provide signage.
- i. **PUBLICITY** - D. Doerr reported that the Committee has put together packets to be given to the award winners

and the President, President Elect, Vice President, and newly elected board members.

- j. **EXHIBIT COMMITTEE AND M&C** - C. Strackbein reported that there is room for 110 booths. As of August 14 we have 56 exhibitors signed up. McKee expects that we will be full by the time of the Conference. Strackbein reported that the M&C will pay for the same as in previous years: one hour of beer, wine, and soft drinks to extend the Meet & Greet and to keep the attendees together as a group; half of the cost of the Wednesday lunches served in the exhibit area; and half the breaks and the cost of the Social Hour before the banquet.
- k. **OPERATORS COMPETITION** - D. Doerr reported that the competition will be held on October 7, 2009. The events will be the same as last year: Maintenance, Collection System, Safety and Process Control Events. The Collection event will be sponsored by Mulcahy Shaw Water; Safety Event by Vorphal Fire & Safety and JF Ahern; Mechanical Event by RDM Municipal and Vogelsang USA; and NCL of Wisconsin for Laboratory Event.



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1. OTHERS -

W. Peterson reported that he has received several Scholarship Applications. The Committee has determined that only one application meets the qualifications. That person is Patrick M. Redmond from St. Cloud, MN. He is attending the North Dakota State University. His sponsor is his father, Keith Redmond. After discussion, W. Peterson made a motion to approve Patrick Redmond, J. Thalke seconded the motion. Motion carried.

Web Committee - S. Thompson reported that the web site upgrade continues. We now have online memberships and annual conference registration. The wwwoa.org mailing list is back in operation. The goal is to have the membership data base on line totally within the next year. This year we are keeping double data bases one with Richard and one on the web. In the next year we will transition to the web.

R. Thater made a motion to approve the committee reports as presented, D. Carlson second the motion. Motion carried.

5. OLD BUSINESS

a. Others- No Old Business



6. NEW BUSINESS

a. Others - No New Business

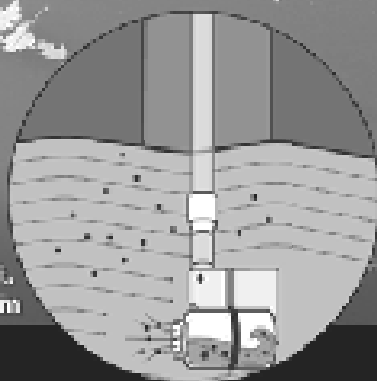
7. ADJOURNMENT - There being no further business, D. Doerr made a motion to adjourn, K. Ferber seconded the motion. Motion carried. Meeting adjourned at 2:50 p.m. on Friday, August 14, 2009. ○

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