Valders Wastewater Treatment Facility

41st Annual W.W.O.A. Conference
October 23 - 26, 2007
La Crosse Civic Center & Radisson Hotel
La Crosse, Wisconsin
President’s Message

“Why do you want to be a wastewater treatment plant operator?”  It’s a question that I’ve heard far too frequently. Not too many years ago, it was asked of me by a technical college guidance counselor when I inquired about the college’s Associate Degree program in Wastewater and Water Operations. The counselor was fervently trying to steer me into entering a program for computers or something “in demand”. Fortunately, that counselor is no longer employed at that technical college, and I didn’t take him up on his suggestion. And, isn’t it interesting that wastewater operators are now far more “in demand” in Wisconsin these days than computer programmers?

When the WWOA Career Development Committee has attended Guidance Counselor and Career Conferences, we’ve been asked the same question. When we try to explain the wide area of expertise and ability that is required in our profession, people are amazed. When I’ve asked operators why they are in this profession, the answers are all across the board; everything from “It’s steady work” to “It’s rewarding to be involved in saving the environment.” Wisconsin’s oldest working operator, age 89, stated that it was “the satisfaction of helping his community.” Another great reason. Yes, I know that it’s not always a walk in the park. However, I don’t know many operators that aren’t proud of what they do. While walking on the shore of Lake Superior last week, the sparkling clear water spoke volumes to me about what we do for the environment. You Wisconsin wastewater treatment plant operators are the reason that our lakes aren’t versions of the 1960’s Lake Erie.

With the limited funding of recent years, it’s become difficult to get away from our jobs and attend training sessions. That’s where WWOA and some of the other water and wastewater professional organizations come in. Where else can you receive great local training designed specifically for your profession for such a nominal fee? David Carlson of the WWOA Board is gearing up for another great year of WWOA-sponsored training sessions, and of course the WWOA Regions are always providing excellent training at their meetings. One of my pet projects this year is to encourage more industrial wastewater operators to join us at WWOA, so if you know of any in your area, please give them an invite. The networking and exchange of information between municipalities and their discharging industries are invaluable.

We welcome our new Board members, Dennis Egge and Wade Peterson. They’ve already jumped in and are helping us tremendously. There are also so many people behind the scenes, donating their valuable free time to make WWOA a great organization.

And why do I enjoy being a wastewater operator? Two main reasons: 1. All of the other operators and people in this profession that I’ve worked with and learned from over the years. 2. That clear blue lake.

Kay Curtin
Valders WWTF

The Village of Valders, in central Manitowoc County, incorporated as a Village in 1919. But it wasn’t until 1940 that municipal water and sewer service was provided. At that time wastewater treatment was limited to primary settling.

In 1952 plans and specifications for a new wastewater treatment plant were approved by the State Board of Health. Those plans, prepared by Baxter & Woodman, included an Imhoff tank for primary clarification and sludge digestion, a trickling filter and a final clarifier. Sludge drying beds were included to dewater the sludge removed from the Imhoff tank. This WWTF was designed for an average flow of 0.070 MGD.

In 1973 an entirely new activated sludge WWTF commenced operation. A “package” activated sludge plant, with concentric tanks was the main feature, with tanks in the outer ring for incoming wastewater stabilization, reaeration of the Return Activated Sludge, and aerobic digestion of the Waste Activated Sludge. In the center is a final clarifier. Facilities for disinfection with chlorine were included. This project also provided a holding pond for storing incoming flows that exceeded the treatment capacity, and a polishing pond. The Imhoff tank and the sludge drying beds were retained for digested sludge storage. This facility was designed by Donohue & Associates, for an average daily flow of 0.150 MGD.

And in 1995, the facility was again upgraded. A second package plant was added, and the original package plant was modified to provide additional flexibility, such that both plants can be operated in the conventional activated sludge mode. Covers were provided over both package plants, and provision was made to bypass the polishing pond, as experience had shown that algae blooms in the pond actually increased the effluent TSS concentration much of the time. The raw wastewater pumping system was completely renovated, and a new liquid sludge holding tank was also provided. These improvements were designed by Crispell-Snyder, to provide a capacity of 0.255 MGD.

Since then, the Village has made further improvements by replacing a comminutor with a mechanical fine screen, and most recently by adding a standby generator capable of powering the entire WWTF. In addition, the Village has an ongoing program of sewer system improvements to deal with an aging system. Engineering assistance for the most recent changes was provided by Ayres Associates.

The Valders WWTF provides treatment for a present population of approximately 1000. It discharges treated effluent to a tributary to the Manitowoc River, and is required to comply with the following effluent limitations:

- BOD5 and TSS – Maximum of 20 mg/L on a monthly average and 30 mg/L on a weekly average;
- Dissolved Oxygen – Minimum of 4.0 mg/L; and
- pH – Minimum of 6.0 su and Maximum of 9.0 su.

The Valders WWTF has a history of producing effluent well within the permit limits. As a result, the Village recently received an O & M Award from EPA Region 5. Specifically, they received a First Place award in the Small plant – Advanced treatment category. See the story elsewhere in this issue for more details. Congratulations to the Village on this achievement!
EPA O & M Awards

Three Wisconsin wastewater treatment facilities were selected to receive Region 5 USEPA Wastewater Operation and Maintenance (O & M) Awards for 2006. The Village of Valders received a First Place award in the Small-Advanced category, the City of Tomah received a Second Place award in the Medium-Advanced category, and the Clark County Health Care Center received a Second Place award in the Small-Secondary category. These were among a total of seven facilities to receive such awards in the Great Lakes states that comprise EPA Region 5.

Village of Valders - The Valders plant is designed to treat an average flow of 255,000 gal. per day (receiving an average of 119,000 gal. per day), while serving a population of nearly 1,000. Less than 2% of the flow comes from industrial sources. The plant does an outstanding job of pollutant removal, consistently removing 97% of the biochemical oxygen demand and suspended solids, and very high percentages of the ammonia and phosphorus from the incoming wastewater. Major treatment processes include screening, biological treatment by means of activated sludge, final clarification, chlorination, and stabilization in a polishing pond (if needed) prior to discharge to a tributary of the Manitowoc River. A large pond is available for flow equalization, in the event of excessive storm water. Sludge is aerobically digested, stored on-site, and applied to agricultural land.

This award is based primarily on the following achievements (in addition to excellent pollutant removal): (1) taking out of service, cleaning and inspecting the entire mechanical portion of the plant annually has eliminated unexpected system failures; (2) scheduling regular annual tours of the treatment facility for area schools educates young people about the importance of wastewater treatment; (3) purchase of a stand-by diesel generator has allowed the plant to continue operating during power outages, and has provided an extra energy source for the Wisconsin Public Service power company, resulting in nearly $3,000 extra annual income for the Village; and (4) the plant produces an exceptionally high-quality effluent.

The Valders facility is supervised by Len Heimerman, Director of Public Works. Others recognized include Marc Stephanie, Plant Operator; Donald Resar,
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Village President; Mary Evenson, Utility Clerk; and six Board Members. The design engineering firm for the latest plant upgrade was Ayres & Associates of Green Bay, WI.

The award presentation ceremony was held August 30, 2006, at the Valders Village Hall. The award was presented by Ash Sajjad, Regional Expert and Coordinator Region 5 Center of Excellence, Water Division, USEPA, Chicago.

City of Tomah

Front Row (L-R) Sayra Rethwisch, Mayor Chuck Ludeking, Jerry Kitelinger, Ken Patterson, Brad Noth
Back Row (L-R) Linda Niebuhr, Diane Webster, Bass Pierce, Dave Stoltenberg (EPA), Brandy Leis, Rod Sherwood, Mike Wetzel

The Tomah plant is designed to treat an average flow of 2.25 MGD (receiving an average of 1.2 MGD), while serving a population of 8,800 in and near the community. Approximately 8% of the flow comes from industrial sources. The plant does an outstanding job of pollutant removal, consistently removing 99% of the biochemical oxygen demand and suspended solids, and 98% of the ammonia and phosphorus from the incoming wastewater. Major treatment processes include preliminary treatment, biological treatment by means of a fermentation tank and oxidation ditches (which also provide some nutrient removal), additional phosphorus removal by chemical treatment, final clarification, seasonal ultraviolet disinfection, and post-aeration prior to discharge to the South Fork Lemonweir River. Sludge is thickened by belt filter press, thermally treated, stabilized with lime, and stored in a covered shed until weather conditions are conducive for agricultural application as a soil conditioner.

This award is based primarily on the following achievements (in addition to excellent pollutant removal): (1) excellent treatment results in spite of a heavy industrial load; (2) an outstanding preventive maintenance program, which has improved the plant efficiency; (3) converting several pieces of major equipment from regular oil to synthetic oil is expected to save about $1,200 per year; (4) regular inspection, cleaning, and replacement of defective sewer lines has greatly reduced the number of sewer backups reported; and (5) with the help of a local teacher, a plant video was produced, which allows students to take virtual tours without actually visiting the facility.

The Tomah facility is managed by Ken Patterson, Director of Public Works & Utilities. Others recognized include Chuck Ludeking, Mayor; Jerry Kitelinger, Supervisor; and five other plant employees. The design engineering firm for the latest plant upgrade was Town & Country Engineering of Madison, WI.
The award presentation ceremony was held on Wednesday, August 23, 2006, at the Tomah City Hall. The award was presented by David Stoltenberg, Regional O&M Awards Coordinator of USEPA, Chicago.

**Clark County Health Care Center**

![Image of award ceremony participants]

(L-R) David Stoltenberg-USEPA, Richard Pulcher, Ron Fredrickson, Rick Cole, Arlene Kodl, Chester Romag, Darlene Bauer, and Allen Gajewsky

The Clark County Health Care Center plant is designed to treat an average flow of 45,000 gal. per day (receiving an average of 54,000 gal. per day). This State-owned facility serves a 223-bed nursing home complex for Medicare-certified skilled nursing, and care of the developmentally disabled, with a total population up to 545. All of the flow is domestic and nursing home wastewater. The plant does an outstanding job of pollutant removal, consistently removing nearly 99% of the biochemical oxygen demand and suspended solids from the incoming wastewater. Major treatment processes include a 4-cell fill and draw type lagoon system, with seasonal discharge to the North Fork Poplar River. Due to the design of the facility, sludge is not generated in sufficient quantities to require separate treatment.

This award is based primarily on the following achievements: (1) operation of the facility at an exceptionally high level of treatment, in spite of being hydraulically overloaded; (2) operation of the plant such that effluent permit levels are not exceeded; (3) notification of WDNR staff before seasonal discharge begins; and (4) overall excellent O&M, including having laboratory data available to show that the intended discharge will not exceed effluent permit levels.

The Clark County Health Care facility is supervised by Ron Fredrickson, Director of Plant Operations. Others recognized include Jane Schmitz, Administrator; and five other employees. The design engineering firm for the latest plant upgrade was Davy Engineering of La Crosse, WI.

The award presentation ceremony was held on Thursday, August 24, 2006, at at the Health Care Center. The award was presented by David Stoltenberg, Regional O&M Awards Coordinator of USEPA, Chicago.

**2007 Awards** – The process for next year has already kicked off. If you would like to nominate a facility (even if it is your own) you need to act fast. Nomination short forms, available from your local DNR staff, are due by December 11, 2006. (DNR has to verify the information and forward the nominations to EPA Region 5 by January 5, 2007.) Check out the following web site for more information: www.epa.gov/OWM/mtb/intnet.htm.
2007 Spring Biosolids Symposium

Mark your calendars to attend the 2007 Spring Biosolids Symposium. The Symposium will be held on March 21, 2007. The program starts at 8:30 a.m.

Please note that the Symposium is changing venues. It will be held in Stevens Point again, but is changing locations from the Country Springs Hotel to the Stevens Point Holiday Inn. The Holiday Inn is just off US10, east of I39.

Another excellent program is in store with national speakers from US EPA, the National Biosolids Partnership, and the Northwest Biosolids Association. Regulars Greg Kester, DNR, and Dick Wolkowski, UWEX are back again, along with the popular panel discussion.

The topic for the panel discussion is Class A Experiences. Operators will discuss their successes and problems managing class A biosolids programs. There will also be presentations on the increasing interest in septage treatment facilities, and national land-spreading issues that may affect Wisconsin.

Make your plans now to attend the nationally acclaimed Spring Biosolids Symposium, March 21, at the Stevens Point Holiday Inn.

2007 Spring Biosolids Symposium

EPA Update – Bob Bastian
DNR Update – Greg Kester
National Biosolids Partnership, EMS for Small Facilities – Lori Stone
Nitrogen Recommendations in Soil Test Reports – Dick Wolkowski
Phosphorus Availability in Soil – Angela Ebeling
Northwest Biosolids Association – Maile Lono
Morning Panel Q and A
Class A Biosolids Experiences – Bob Hyde-Delahart SD, Sam Warp-RBF, Dave Taylor-Madison MET, Jim Kirk-Grand Chute/Menasha, Ron Groth-Lakeland SD
Septage Treatment Facilities – Jerry Tyler
California Land Spreading Issues – Dianne Gilbert-Jones

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Steve Miller Scholarship 2007

The Walworth County Metropolitan Sewage District has announced a memorial gift on behalf of Steve Miller, a dedicated employee and wastewater professional. Steve passed away in January, 2006. He had worked for WALCOMET for twenty-three years, twenty of those years as Operations Manager. His relationship with the WWOA started early. Steve was an officer for the Southeast Region serving as Vice-chair from 1983 to 1986, Chair from 1987 to 1988, and Recorder from 1989 to 1995. He was one of the first to develop an electronic mailing list for his region. Steve received the Operator of the Year award in 1988.

Steve was always willing to host regional meetings and other special training programs. He cheerfully shared his expertise with anyone who asked for his help. Steve never missed attending the state annual conferences and offered his help however he could.

He encouraged people to enter into our industry, sharing his knowledge and expertise freely. The Walworth County MSD, under Steve’s supervision, offered internships providing for the future of our industry. Steve was truly a leader and is missed by those of us who had the privilege to know and work with him. To honor Steve’s dedication to his career and love for this profession, WALCOMET established a special $500.00 scholarship to be awarded at the 2007 WWOA Conference.

This special scholarship is open to the membership using the guidelines previously established as a part of WWOA policy. This special award will be open to current and eligible full-time students studying water/wastewater or civil engineering, and will be open to include past WWOA Scholarship winners. See your regional officers for an application or download one from www.wwoa.org. Follow the link under Awards.

Government Affairs Seminar 2007

The Wisconsin Wastewater Operators Association and Central States Wisconsin Section, along with the Wisconsin DNR, Municipal Environmental Group, and the League of Wisconsin Municipalities, invite you to attend the 2007 Government Affairs Seminar. The event will be held on March 1, 2007 at the Madison Marriott West in Middleton, WI.

As of press time the agenda has not been finalized. Speakers have been invited to present on topics with four general themes.

Emerging pollutant topics are Fate of Pharmaceuticals and Drug Take Backs, TMDL and the Rock River Watershed, and Mercury Pollution Minimization and the Green Tier Program.

Financial topics are National Sources of Funding, User Fee Trends in Wisconsin, and Sources of Funding in Wisconsin.

Political topics are Effects of the Political Climate and the 2006 Elections on Water and Wastewater Utilities, and SSO/CMOM including an environmentalist perspective.

Regulatory topics include Biosolids and Septage Issues, NR149 Laboratory Certification Status, and the DNR Update.

The registration brochure will be mailed in Mid-January. The information will also be available at wwoa.org and cswea.org.

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NEW BROCHURE ON PRIVATE LATERALS
By Julia Riley, Wastewater Specialist
Jack Saltes, Wastewater Operations Engineer
Department of Natural Resources

How do you educate homeowners about maintaining and repairing their building sewers, also called “private laterals”, “service laterals”, or “sewer laterals”? The Department of Natural Resources and the Department of Commerce have collaborated in developing a brochure to assist wastewater utilities in educating homeowners on the following topics:

- What is a building sewer?
- Why do building sewers need maintenance?
- What are sewer cleanouts?
- What problems should I look for?
- How can I prevent problems?
- Why are infiltration and inflow big problems?
- What can I do to prevent and reduce infiltration and inflow?
- Who is responsible for maintaining and repairing the building sewer?

The brochure is available for wastewater utilities to download from the internet and reproduce at a local printer or copier for distribution to homeowners in their service area. The “Building Sewer Maintenance and Repair” brochure is available in PDF word format to download from the following web site:

http://www.dnr.state.wi.us/org/water/wm/ww/cmar.html

Click on the “Brochures” link under the “Other Information” heading in the left-hand column on the web page.

Due to budgetary constraints, the DNR is not able to print multiple copies of the brochure for public distribution. However, if you are unable to download a copy of the brochure from the DNR web site, you can request that the Department send you an original copy for local duplication. Contact Julia Riley, by e-mail at julia.riley@wisconsin.gov or by telephone at 608-264-9244, for assistance.

A sample of the brochure contents:

How Can I Prevent Problems?

Follow these DOs and DON'Ts to prevent problems with your building sewer:

DOs:
- Place paper towels, feminine products, disposable diapers, dental floss, hypodermic needles, plastics, and other personal hygiene products in a wastebasket. Dispose as garbage.
- Use sink and shower drain strainers.
- Collect grease and fats in a heat-resistant container, cool, and dispose of it in your garbage with solid waste.
- Compost food scraps or place in sealed containers or bags in garbage for disposal with solid waste.

DON'Ts:
- Don’t use the sewer as a convenient means to dispose of food scraps.
- Don’t use the toilet as a wastebasket for garbage, medications, or chemicals!
- Don’t plant trees or large shrubs near sewer lines where roots can penetrate and create a dense mat of “root balls.”
- Don’t pour grease, fats, or oils from cooking down the drain. Grease in drains collects and hardens into a plug.
- Don’t connect French drains, roof gutters, sump pumps and other flood control systems to your sanitary sewer. These types of connections are illegal.

WWOA Promotions – At Your Finger Tips

Now you have access to all the WWOA promotional items on line or by catalog order all the time, no more waiting for the Annual Meeting.

The complete catalog is on line at wwoa.org and click on “promotions” on the left side of the home page. Plans are to publish the complete catalog in the next issue of the Clarifier along with ordering information. If you have questions, contact Dave Carlson as listed on the back cover.
Bill Buckles and Frank Kastelic are a couple of ordinary guys. Bill is married with two kids. His wife is a teacher. Frank is a single guy who enjoys spending time outdoors. And they are also Professional Engineers who can precisely size and specify the pumps for municipal and commercial water and wastewater treatment plants.

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WDNR Switchboard
By Tom Aten, WDNR

Historically, telephone switchboards connected incoming calls to the requested destination. DNR’s new Switchboard serves the same purpose but instead of making phone line connections it connects people to electronic reporting systems. Here’s the problem that the Switchboard was built to address: People who submit electronic DMR’s or CMAR’s use a web address, but if they also need to report solid or hazardous waste they need to have two addresses. Air emission reporting adds a yet another, and so on. Not only might this be confusing, but the log in would have to be repeated for each.

Switchboard is the “door” you will go through for all of your electronic Department reporting forms. The Switchboard is a secure connection that allows you to pick the type of Department reporting to do for facilities that you work for. In some ways this duplicates what the eDMR/eCMAR facility list screen does, but the Switchboard also provides additional features. It allows you to update your personal contact information and, if authorized, the contact information for the facility that you represent. It also keeps track of your log in session so you won’t need to repeat it.

Everyone that is currently doing eDMR’s or eCMAR’s can log into the Switchboard to see how this works. The Switchboard site is available from the main DNR internet page at http://dnr.wi.gov/, then click on the Environmental Protection link, and then on the Environmental Business Switchboard link and you’re there. The Log in to the Switchboard link uses your same Wisconsin User ID (WAMS) and Password as the eDMR or eCMAR systems. Wisconsin User ID’s are used by other state agencies too.

Once you log into the Switchboard you’ll see the contact information that we currently have for you, the facilities that you work for, and any environmental certifications or licenses that you may have. If you click on the facility name you’ll see the facility contact and mailing address information, and the What You Can Do section lists reporting systems that you can use. Here you’ll see the eDMR or ECMAR reporting roles, and any other roles. Clicking on a role takes you to the reporting program. As new electronic reports are developed, they will be available through the Switchboard.

Over the next several months you will be hearing a lot more about Switchboard at WWOA regional meetings, at various training sessions and from Department representatives. Be sure to take the opportunity to learn about this Department electronic reporting connection and begin using it. If you have questions or suggestions about the Switchboard, feel free to visit the DNR website or give Tom Aten a call at (608) 267-7638.
**APPLIED TECHNOLOGIES CONTINUES TO GROW**

Applied Technologies welcomes Kathleen Hassing and Kevin Jankowski to its Brookfield office. Both have joined the Environmental Department as water/wastewater project engineers.

Hassing graduated in May 2006 from UW-Madison with a BS degree in Civil and Environmental Engineering. Jankowski graduated in May 2006 from Michigan Technological University with a BS degree in Environmental Engineering.

Applied Technologies, headquartered in Brookfield, Wisconsin, is a multidisciplinary engineering and architectural firm specializing in water/wastewater treatment design and consultation. For more information, visit www.ati-ae.com.

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**WASTEWATER TREATMENT PLANT SUPERINTENDENT**

City of Kiel (pop. 3,630) seeks a qualified individual to serve as the City’s Wastewater Treatment Plant Superintendent. The City is located in Manitowoc and Calumet Counties.

Position oversees all aspects of the Wastewater Utility and its staff, including daily operations and maintenance of the plant and lift stations. The individual is responsible for facility operation, timely lab operations, accurate record keeping, and safety within the facility.

Qualifications: State of Wisconsin Grade IV Operator’s certification as well as sub-grades A, C, E, F, G, H, I and J. Associate level degree preferred and a minimum of five years experience as a wastewater plant operator. In addition, a Bachelor’s degree, with a major in engineering, science, public administration, etc. is a plus. Demonstrated ability to effectively deal with the public and with municipal officials and other municipal employees is required.

Starting salary DOQ + City benefit package. Must be willing to meet residency requirements of the City. The full job description and statement of qualifications can be found on the City website @ ci.kiel.wi.us, by contacting City Administrator Dennis Dederer at admin@ci.kiel.wi.us or at (920) 894-2909, Ext. 102.

Please send your resume to: Dennis Dederer, City Administrator, 621 Sixth Street, P.O. Box 98, Kiel, WI 53042 or email your resume to admin@ci.kiel.wi.us. Applications accepted until position is filled. EOE.

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**WWOA Conference Schedule**

2007 Conference - October 23-26
La Crosse Civic Center & Radisson Hotel
La Crosse, WI
PASS THE KETCHUP?

We all know what can happen to our arteries and cholesterol levels when we eat too many burgers, fries and other fast foods. Well, then you also know what can happen to your sewer pipes, lift stations and treatment plant from establishments and institutional kitchens that serve our favorite foods. The same thing! Grease buildups and blockages. Fast foods taste good for a reason and you know why… it’s the fat, oil and grease used to prepare them and in the foods themselves.

Chris Groh, Wisconsin Rural Water Association Wastewater Trainer wrote an excellent article on fats, oils and grease, otherwise known as FOG in our business, in the October 2005 of the Rural Water Journal. If you haven’t read it, you should. We do not intend to repeat the excellent information he presented in his article but instead talk about FOG from a little different perspective…the impact on your treatment plant. Most operators, when they think of grease, they think of blockages, plugged pipes and accumulations in lift station wet wells. It’s not pleasant to have to deal with grease in your collection system so a good grease control program in your community is absolutely necessary if you are going to keep it out of the sewer system. Using degreasers in wet wells only tends to solubilize the FOG so you can transport it more easily to your treatment plant. Is that what you really want to do?

I want a laboratory that causes me no anxiety, saves me money, has superior client service and has a great reputation based on continuous performance.

Don’t You?

You can save money, save time and lower your stress level, by using Northern Lake Service for the analysis of your wastewater, biosolids and drinking water. We’ve been providing reliable service to water and wastewater plants for over 30 years. You’ll be happy with our level of service.

Call Andy or Tracy in our Client Services Department for more information or a quotation for your testing requirements.
Although FOG can be very problematic once it reaches your plant, it is also hard on your bacteria because it is simply hard to break down. Bacteria are only capable of using soluble organics for food. In order to eat FOG, the bacteria have to expend extra energy to produce enzymes to solubilize the greases and fats before they can be used for food. On the other hand, foam-causing filamentous bacteria such as Nocardia, Microthrix and type 1863 can utilize FOG very easily and will dominate when there is an excess amount available. Nocardia will favor greases and oils in warmer temperatures, Microthrix has the ability to break down greases and oils in colder temperatures and type 1863 has the ability to break down greases and oils when there is a decline in the aeration basin pH. Keeping FOG out of your plant will help a lot in keeping foaming filaments reduced. FOG should be kept to approximately 50-100 mg/l (less than 50 mg/l if possible) in your influent and your sewer use ordinance should address FOG limitations and controls.

For many of you who are trying to develop a good collection system O&M program, keeping grease out of your sewer systems and treatment plant through a comprehensive Sewer Use Ordinance and Grease Control Program is an imperative element of good collection system O&M and WWTP process control. Yes, process control too! With grease in the system, the WWTP processes may start to control you through foaming, excess filaments, poor settling and other treatment problems. Thus, controlling the grease helps control your WWTP processes. Remember, it’s all about creating a healthy and favorable lifestyle for your bacteria. Just like you shouldn’t eat hamburgers and fries and other greasy foods every day without paying a health price, neither do your bugs want such a diet. This holiday season and always, here’s to healthy eating……for you……for your bugs. Keep the FOG, as much as possible, out of your arteries and sewer pipes. Microlife at the treatment plant will be good.

HAPPY HOLIDAYS!
Lake Michigan District – WWOA
Sturgeon Bay, Wisconsin
August 24, 2006

The Sturgeon Bay WWTP hosted a meeting of the WWOA-LMD on August 24, 2006 at the Cherry Hills Golf Course. A total of 69 people attended.

After enjoying a delicious breakfast buffet, Chairperson Ron Austreng began the Business Meeting. Ron thanked Bob Carey of the Sturgeon Bay WWTP for hosting the meeting and for all his help with the preparations. Ron also thanked EarthTech for sponsoring the brat & corn roast and Northern Lake Services for providing the break food and refreshments.

Ron then read the minutes from the May meeting and the Treasurer’s report. A motion was made to approve both reports, which passed. Next order of business was the election of Vice Chair and Secretary/Treasurer. Tom Kruzick nominated Brian Helminger of the Manitowoc WWTP to the position of LMD Vice Chair. No other nominations were made so a motion to close the nominations and unanimously elect Brian was made, seconded, and passed. Bruce Bartel nominated George Kemmeter of Dorner Company to the position of Secretary/Treasurer. Again, there were no other nominations so a motion to close nominations and unanimously elect George was made, seconded, and passed. Congratulations Brian and George! Many thanks for stepping forward to help out the WWOA – LMD.

Ron noted that there were two nominations for Operator of the Year and the Lake Michigan District will have 2 Operator Competition Teams at the State Conference in Wisconsin Dells, October 3 - 6. We hope to see you all there!

Upcoming LMD meetings are as follows:
   November 2006 – Oconto
   February 2007 – Clintonville
   May 2007 – Black Creek
   August 2007 – Seymour
   November 2007 is still open.

If anyone is interested in hosting the November 2007 meeting, please contact Ron Austreng or Jeff Mayou.

Ron introduced the four DNR professionals in attendance – Jeff Haack, Joe Graham, Bob Hannes, and Gary Kincaid. There were also four members of the WWOA Board of Directors present; Dan Tomaro,
Bruce Bartel, Tom Kruzick, and Dave Carlson. There being no other business, the meeting was closed.

Dave English, Operations Manager for the Sturgeon Bay Utilities, welcomed the group to Door County. Dave gave a brief background of the plant facility and noted that the WWTF has been operated under contract operations since 1989, with EarthTech providing this service as of August 1, 2006.

Bob Carey invited everyone to tour the plant and introduced the dedicated employees in the audience who will be heading out to prepare for the tour.

After the tour, the attendees enjoyed listening to the first technical presentation by Mark Robinson, Environmental Health & Safety Manager for EarthTech. He gave a presentation called “Achieving Safety Excellence – One Step at a Time”, emphasizing that any accidental injury on the job is unacceptable.

After a short break compliments of Northern Lake Services, Dan Tomaro of Wastewater Training Solutions spoke on “Innovative Wastewater Aeration Systems” describing a new proprietary aspirating aeration system that uses less energy and produces smaller bubbles than typical fine-bubble aeration systems.

Next on the agenda was Steve Mlejnek, Lab Manager, and Doug Jennings, Mercury Analyst, both from Northern Lake Services. Their topic was called “Sampling & Analysis for Low-Level Mercury by EPA Method 1631E”. They described the laboratory requirements needed to accurately analyze water samples for Mercury in the low nanogram per liter range, and demonstrated the “Clean Hands/Dirty Hands” two-person sampling technique that should be used to collect samples for Mercury analyses.

The meeting adjourned and credit slips were distributed. The group then enjoyed another great meal of brats and corn. Thank you EarthTech!
Honoring Wisconsin’s Oldest Operator
By Kay Curtin

Ray Klinkhammer

Each year, the Northwest District of WWOA presents one of their operators the “By Golly You Did It” award for exceptional achievement as a wastewater treatment plant operator. The recipient for 2006 is of special interest. He just may be the oldest working wastewater operator in the state. In August of 2006, Ray Klinkhammer turned 89 years old. He has been the operator of the Crystal Lake Sanitary District in Comstock Wisconsin for the last 24 years. Comstock is a tiny unincorporated community in Barron County. The wastewater facility is a lagoon system that currently serves the sanitary district. Until recent years, the system also treated waste from a large cheese factory in the community. Ray was one of the people that were instrumental in organizing the sanitary district as well as being the operator. He has also served on the District board as Secretary. Recently Duane Nelson has become another certified operator for the district, and assists Ray in the everyday activities.

When Ray was 18 years old, he operated a service station for a few years in the City of Turtle Lake. He then worked at the Rock Island Arsenal in Iowa for a year. During this time period, Ray married Thelma, his wife of 65 years. Ray was then drafted into the Army during WWII, serving in Europe. He was deployed just after D-Day and fought in the Battle of the Bulge and was presented the French Medal of Honor for his involvement in the Liberation of France. His living room wall is bedecked with military medals and honor, although Ray is humble when questioned about them.

Ray and Thelma moved to Cumberland in 1951, where he worked for Central Motor Sales as a mechanic for the next 31 years. At age 65 he retired, and began working for the Sanitary District. They moved to Comstock in 1954, where they still reside. The Klinkhammers have five children - four girls and one son. When asked why he started a new career at age 65, he answered “community service - the satisfaction of helping the community”.

Ray has been experiencing health problems for the past year, but according to Duane Nelson, he is “still the brains behind the operation.” Ray takes care of the meter reading, testing and monthly reports. Duane reports on how the plant is running 2 to 3 times a week to Ray so that he is up to date on the plant operation. Duane said that “Ray has always taken pride in his work and gives 100%, no matter what the job.” On days when Ray isn’t feeling well, Thelma helps out with the readings and sampling.

At age 88, Ray renewed his operator’s license for the next 3 years. That will make him 91 years old when he is up for the next renewal. Ray says that this is the last time; he’s planning on actually retiring.

Perhaps longevity is contagious in Comstock. Everet Beats was the first chairman of the District and one of the two original operators. He retired at age 90. Hopefully, Duane Nelson will still be going strong as an octogenarian operator, too.
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First Place

Team 7: Bob Lecey, Chris Boyd, Dave Snortum, & Marty Dierker (with a score of 12 under)

Second Place

Team 6A: Mike Barreau, Dean Zanon, Dave Welsing, & Dave Leissis (with a score of 11 under)

Third Place

Team 6: Jim Cook, Brian Wedin, & Preston Campbell (with a score of 10 under)

Golf Stats

Low Putts: Team 7: Bob Lecey, Chris Boyd, Dave Snortum and Marty Dierker - with a total of 17!!

Closest approach on #1: Doug Gzies - holed in from off green

Closest to Pin in 2 Shots on #5: Steve Schramm

Long Putt Made on #9: Matt Kube

Closest approach on #12: Dale Doerr - holed in from off green

Closest to Pin on #15: Dave Snortum

Longest drive on #18: Matt Gilles

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Dear W.W.O.A,

This school year has flown by for me and it is scary to believe that in just two weeks I’m headed home for Thanksgiving. Right around this time of the year, scheduling for next semester begins. While I figure out my schedule, it is very comforting to know that the W.W.O.A. was so generous to award me such a large scholarship. The knowledge that there is an organization, in my field, willing to assist a college student is something special. I would just like to thank you and the entire organization for your generosity.

Sincerely and Gratefully,

Kyle Mealy
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Spouses Program Wade Peterson (608) 786-2850
Nominations Tom Kurzick (920) 232-5365
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CSWEA Liaison Randy Thater (262) 524-3631

(L-R) Ron Clish, Ron Wellner, Ed Costello, LaMont Albers, Tony Doro, Jerry Berg, Terry Slack, David Snortum, Rich Boden, Roy Morrison, Dan Landis, Steve Brand, Jack Boex, Dean Fischer, Rick Pace, Pete Ponald, Tom Renner, Gary Smith, Rocky Raymond, Ted Groom, Joe Morrissey, Tom Steinbach, Duane Erickson, Mark Surwillo, Tim Nennig
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Greg Kester - Wisconsin DNR

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SERVICE AWARD
Randy Herwig - Lodi

MEMBERSHIP AWARD
Dan Tomaro - Oregon

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(L to R) Wade Peterson, John Bond, Dennis Egge, Bruce Bartel, President Kay Curtin, Dave Carlson, Jim Thalke, & Randy Thater
2006 REGIONAL OPERATOR AWARDS

Lake Michigan Region
Darrell Teal (R) Clintonville
Presented by Jeff Mayou

North Central Region
Dan Folan (R) Almond
Presented by Ken Bloom

South East Region
Dennis Wolf (R) Sussex
Presented by Bruce Rabe

Southern Region
Brian Erickson (R) Stoughton
Presented by Joe Solawetz

West Central Region
Deb Gamble (R) Bay City
Presented by Sam Wrap

Northwest Region
Joel Weber (R) Bayfield
Presented by Mike LaRose
**WWOA OPERATORS COMPETITION**

**First Place**
Lake Michigan Region

Flow Pokes (L to R) - Jeff Smudde, Jason Ellis, & Kim Williams

**West Central Region**

Sewer Dogs (L to R) - Rick Weikel, Greg Imgrund, & Sam Warp Jr.

**Second Place**
Southern Region

The Deuce is Loose (L to R) - Brian Skaife, Rodney Koble, & Kevin Bliss

**Lake Michigan Region**

Straight Flush (L to R) - Warren Howard, Joe Lange, Dan Vanden Avond

**Judges**

Top Row (L to R) - Bill Ciske, Dan Waala, Ron Austreng, Gordy Koch, & Mark Duerr

Bottom Row (L to R) - Pete Wachs, Kevin Skogman, Frank Bonney, & Tom Asmus
WWOA OPERATORS COMPETITION PICTURES

Flow Pokes at Lab

The Deuce is Loose at Safety

West Central Sewer Dogs at Collection Systems

Straight Flush at Maintenance

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The 2006 Operator’s Ride began at Geno and Barb McClures’ in Laona with a cookout Thursday, July 24. Friendships were renewed amidst some excellent chicken and accompaniments.

On Friday we were led on a circuitous route through the north woods – at one time or another all doubted that we even knew where we were. Lunch was at Hill’s Still. During the afternoon we tested our braking, shifting and leaning skills on some scenic byways.

The day ended at the Four Seasons Resort on Miscauno Island in the middle of the Menominee River, near Pembine, where a very old one-way wooden bridge leads into this top-notch resort.

Saturday again found us in the woods via winding roads, where we thrice cruised through the mysterious Athelstane. Whereas on Friday we passed numerous signs announcing Athelstane but never saw it, on this day it seemed every road led to Athelstane. Some lunched at a spot on the Peshtigo River, while others found an air-conditioned watering hole to cool off in, down the road apiece.

The various activities offered by the Four Seasons Resort were again enjoyed, followed by our annual banquet, flavored with story-telling and jokes and the Reid(y) awards given to deserving souls. When you see Phil Hoopman, ask him how his wife’s parrot is getting along. The Hard A__ ed Bikers welcomed three inductees. This year had ten riders become charter members of the newly formed “Loud Pipes Band.”

Scenic, enjoyable, safe, great accommodations, good times describe this year’s ride. Hosts for next year (2007) will be Pete & Lois Conine of Waukesha, ably assisted by Jeff Harendra and Steve Burr. The ride dates are July 27 & 28. The Operators Cook-Out is Thursday the 26th.
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The Fall meeting of the North Central region of the WWOA was held on September 13, 2006, in Milladore, WI. The meeting was hosted by Gary Dickrell, Village of Milladore. The meeting was held at the Milladore Village Hall. There were 52 participants in attendance.

Gary Dickrell opened the meeting at 8:30 am, by welcoming all attendees to the meeting.

The first speaker of the morning was Matt Huston of Infratech. Matt discussed various aspects of collection system maintenance, including pipeline inspection, pipeline cleaning, pipeline repair, manhole inspection, and manhole repair.

Ron Dickrell and Mark Kivela, both of the Marshfield Wastewater Utility, did a presentation on Marshfield ongoing efforts to control infiltration and inflow. Ron discussed development and implementation of Marshfield’s Collection System Operation and Maintenance program, and the programs effectiveness. Mark explained how televising and inspection results were incorporated into a database and integrated into the City GIS system.
Tom Steinbach, Oconomowoc Wastewater Utility, discussed the City’s grease trap and sand trap control program. Tom explained the problems that lead to the creation of the grease and sand trap control ordinance and how the ordinance has been implemented and the problems they encountered.

Peter Pfefferkorn, DNR area engineer, Wisconsin Rapids Office, gave the DNR update. Peter discussed WET test reporting requirements, EDMRs, the 2005 CMAR reporting effort, and staff changes at the Wisconsin Rapids Office.

Business Meeting

1. Rich Boden opened the business meeting at 11:35.
2. Boden lead a round of applause for Gary Dickrell and Ron Dickrell for their work on organizing and hosting the meeting. He also thanked the speakers for participating in the meeting.
3. Boden noted that William Reid, LTD and Spectrum Contractors set up displays outside.
4. The minutes of the business meeting at the April 20 Antigo regional meeting were accepted as printed in the June Clarifier.
5. Boden read the financial report as provided by Treasurer Gus Strehlo.
6. Boden reminded everyone of the upcoming Annual Conference October 3-5 at the Kalahari, in Wisconsin Dells. He encouraged any non-members to consider joining WWOA, and listed the member benefits.
7. Boden announced the region would field an operator’s competition team this year. The team members are Chris Lefebvre, Whiting, Lyle Lutz, Amherst, and Vern Williams, Rib Mountain MSD.
8. Boden reviewed the minutes of the May 24, 2006 Steering Committee Meeting.
9. Boden asked Gus Strehlo to announce the results of the Steering Committee Election. Strehlo announced that there were three candidates and that Ron Dickrell and Rich Boden received the most votes. They will both serve three year terms. Gus Strehlo motioned and Jerry Brehm seconded to destroy the ballots. The motion passed on a voice vote.
10. Boden congratulated Dan Dvorak as the 2005 North Central Region Operator of the Year. Boden introduced Lyle Lutz, Village of Amherst. The Village of Amherst won the 2006 Registered Laboratory of the Year Award for a Small Facility. The award is one of two presented by DNR annually.

11. Boden stated the Plover would host the next meeting in January; that Eagle River would host the fall 2007 meeting, and that no one had yet agreed to host the 2007 Spring meeting. He encouraged volunteers to consider hosting a future meeting.

12. There being no other business the meeting was adjourned at 11:44.

The group walked to the park adjacent the Village Hall to enjoy a wonderful brat and venison fry picnic lunch.

The meeting reconvened with Joel Smith, Flygt, demonstrating how to troubleshoot and disassemble a submersible pump. This was a hands-on demonstration that was done on the tailgate of his truck in the parking lot.

The final speaker of the day was Mike Voss, MSA, who discussed the design and operation of Milladore’s recirculating sand filter treatment plant. Gary Dickrell added his comments and answered questions. The meeting adjourned at 2:00 pm as attendees boarded a bus to travel to the treatment plant for a tour.

---

**How long can you wait to reduce cost?**

A. I need to take action now  
B. When I hear of competition for my job  
C. It's too late, we are being privatized  
D. I am not concerned, I plan to retire soon

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**John Leonhard, WWTF Operations Manager**  
Fond du Lac, WI

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**Kurt Damrow, Wastewater Supervisor**  
Park Falls, WI

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**Joe Morrissey, Director of Public Works**  
Village of Black Creek, WI

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**Wayne Fields, Chief of Water Operations**  
Broomfield, Colorado

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I have given my notice to the WWOA Board of Directors that the September 2007 issue of the Clarifier will be my last. This will mark the end of twenty years of involvement with the Clarifier. With all the hype and talk about Knowledge Management and Succession Planning in the work place, I thought it is time to apply the same concepts to the future leadership of the Clarifier.

It is my wish and I think the Boards’ desire to keep the Clarifier as a membership driven publication. In today’s highly competitive environment it is so easy to outsource work and the Clarifier would be no exception. However, when I look back on the legacy of the Clarifier and the many good people who served as Editor, I think it would be a disservice and dishonor to farm out a publication which has been so grass roots based for so many years.

This is where you as a WWOA member who is loyal to the organization and willing to become involved can help maintain the publication as a true member-based publication. The present Clarifier staff: Jeff Haack and Jean Van Sistine are ready, willing and able to continue in their current volunteer capacity. What we need is a “Managing” Editor, someone to oversee the assembly, layout and production of the Clarifier. This person is the primary point of contact with the WWOA Executive Secretary and the Advertisers. This person also serves as Chair of the Clarifier Committee and reports to the Board. This is what I see as the most desirable way to continue the longevity of the Clarifier for the future.

The second alternative is to have someone from the membership take over publication of the Clarifier on a pay for services basis. This could be a member, spouse of a member, child of a member. It would still have a close connection with the membership and solicitation of information would be done through WWOA. It takes anywhere between 30 – 40 hours for a 56 page issue and this time requirement would be five times per year. It is something that can be done by anyone who has worked on newsletters or small publications. There is time to get familiar with all the activities associated with an issue. Anyone of us on the Clarifier staff would be ready to answer any questions you may have.

So all I ask is that you give it some thought and ask questions if you are interested. I have had many compliments over the years on how well the Clarifier staff maintains and improves the Clarifier. Now you can become part of this important membership benefit which originally, and still is today for the “benefit of the member”.  I’ll be waiting to hear from you.
Northwest District Fall Meeting
Siren, WI
October 20, 2006

Chairman Mike LaRose welcomed the operators and went right into the business portion of the meeting. The first order of business was to present the NW District “By Golly You Did It “operator of the year award. Presenting the award was Duane Nelson –Vice chair who works with the recipient, Ray Klinkhammer. Ray is 90 years old and still does what he can for the sanitary district. Due to health reasons, Ray could not attend, but his son, Don, accepted the award on his father’s behalf.

The Treasures report was presented with $3417.43 in the checkbook and $1096.98 in Escrow. Motion to accept was passed. The secretary’s report was presented with a motion to accept as printed in the Clarifier. There was no old business. New business Chairman La Rose announced the meeting sites for 2007; Spring in Ladysmith, Summer in Superior and Fall in the Birchwood.

Elections were held with the 2007 officers as follows:

Chairman: Duane Nelson–Comstock
Vice chair: Jim Hall–Medford
Secretary: Wally Thom–Rice Lake
Treasurer: Mike Romsos–Barron

We have a core committee set up to develop regional meetings which consist of the officers and Mike LaRose–Rice Lake; Kay Curtin–S.E.H.; Craig Walkey–Cooper Eng. The core committee is invaluable at ensuring professional district meetings and diverse speaker topics. The business meeting was closed and the meeting program began.

A welcome and introduction to the Village of Sire was presented by the Village Administrator/Engineer, Randy Surbaugh. Randy discussed the different types of small treatment facilities in the area and how all systems make a difference to our environment.

The first presenter was Burnett County Sheriff Dean Roland. Dean’s first comment was, “Drugs have
been good to him”. Dean’s presentation was mostly focused on Meth and the associated problems. Dean has made over 5,000 arrests associated with drugs. Dean said 94% of the arrests in Burnett County this year were drug related. Dean discussed briefly the use of Cocaine as well and noted that this drug can get in to the human system four ways; **Swallow** - which takes about 20 minutes to work, **Inhale** - which takes about 5-7 seconds to work, **Inject** - which takes about 2-3.5 seconds to work, and **Absorption** - which can vary depending on skin conditions and location. Dean went back to the Meth discussion stating that like any drug, the longer you use it the better chance you have of dying from it. Dean said you could get the recipes for making drugs off the Internet. Most makers of this drug are not chemists and with sloppy workmanship the chances of kids in the household getting into the stuff are great. The reason the NWWOA asked Dean to do the presentation was because as municipal employees we enter homes every day, patrol our streets and parks and we need to be aware of the dangers as well as being a watchdog for our law enforcement community. Dean covered lots of information and showed slides of meth labs, homes and users of the drug. **BE OBSERVANT AND CALL YOUR LOCAL LAW ENFORCEMENT AGENCY IF YOU ARE SUSPICIOUS.**

The Burnett County Emergency Management coordinator, Bobby Sichta, presented the next presentation. Bobby started with a slide show of the disaster the tornado did in 1990. It leveled the
community. The tornado covered 41 miles, which included destruction of 205 homes, 34 barns, many businesses, and damaged more that 352 farms and homes. Just the clean up cost was $ 17 million. It was noted that 49% of all homes either damaged or destroyed had no insurance. There were many dead animals to dispose of; farm animals, deer, and many domestic animals. It was in the 90’s after the storm and things were deteriorating quickly. Many volunteers showed up but mobility was difficult with 1000’s of trees needing to be cleared from roads. Bobby said that with in an hour of the storm there were looters. Five lakes in the area still have machinery and stuff at the bottom and will probably remain there. As long as the waters are navigable and there is no danger of human contact with the lake debris, it will become a fish crib. The first years clean up involved 15,000 volunteers, therefore food and water and sanitation was an ongoing issue. There was much more information and interesting slides but to get to the point of what lessons were learned:

1. Good mapping-mapping of the area, which show roads, topography, lakes, and buildings, and with that, people who know the area.

2. An updated emergency plan - contacts, equipment, supplies, agencies and transportation

3. Be able to match volunteers with ability and need for service and safety.

4. A sign (in-out) site, if there is federal funding for cleanup or what ever, if a volunteer is not listed, any liability incurred by that person will fall on the shoulder of the municipality.

5. Donations-be careful what you ask for- be specific on what you want and how much. The problem with unclear request is over abundance and where to store the donations, especially perishable food.

6. Try to hire one contractor who can then sub contract the needed jobs. This will release some stress to deal with other issues.

7. During the aftermath of a disaster, hold daily meeting with all involved parties, be flexible due to unforeseen issues, make sure governing bodies know their responsibilities, and do not be afraid to ask for help but be specific.

This was a good eye opener to get one thinking about the coordination of forces in case of a natural disaster.

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We had a great lunch served in the Northwoods atmosphere at the Lodge on Crooked Lake surrounded by many stuffed animals of the nort. It did give the operators a taste of the outdoors and the urge to go bow hunting right now. I am surprised they stuck around for the afternoon sessions. But then again, I still had the credit slips.

The afternoon session was a presentation by the Burnett County DOT work zone engineer Morrie Luke. Morrie presented some safety tips on work zone safety when working on municipal, county and state roads. Morrie discussed traffic cone placement, cone size, types of signs, sign size and sign placement. Morrie also showed a slide presentation of some examples of a proper work zone safety. Morrie did mention that if you were working on a state highway ROW, you would need a permit from the DOT. These are all things we have heard before but need reminding once in a while.

Morrie did have a hand out titled “WORK ZONE SAFETY” which is a laminated pocket guide. The information Morrie presented can be found at tic@epd.engr.wisc.edu. There is also a maintenance manual put out by the DOT that can be down loaded at www.dot.wisconsin.gov/business/rules/property-96.htm

The next presentation was presented by Fastenal Company-Kevin Manke. Kevin discussed tensile strength, and pull torque of different grades of bolts.

---

**Keeping Challenges at Bay**

High bedrock. High groundwater. High-density, small residential lots. The challenges posed by installing sanitary sewers in Dyckesville were great. But local residents’ commitment to protecting the waters of Green Bay from failing septic systems was greater. Foth & Van Dyke worked closely with the Dyckesville Sanitary District to overcome difficult site conditions during sewer construction, and continues to be a valuable partner in protecting water quality in the bay region. If you need a partner who can find a way to keep challenges at bay, contact Foth & Van Dyke.

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*Dyckesville Sanitary District President Dick Charles (left)  
with Foth & Van Dyke’s Dennis Steigenberger*
Grades of bolts are based on tensile strength with grade 2 being the least and grade 8 being the most. Grade 2 has no markings on the bolt head, grade 5 has 3 markings on bolt head and grade 8 has 6 markings on bolt head. When using nuts with the bolts the grade needs to be equal to or greater than the bolt.

Kevin then discussed shear strength. The tolerance of a bolt before it will shear off. How bolts are rated and what affect fatigue (nut and bolt not being tight) has on the holding power. Fastening theory- use nut and bolt as a clamping device, force times distance. Kevin displayed a chart that showed a bolt grade and the amount of torque (Foot-pounds) it will take to clamp to 5000 PSI. Kevin then did a demonstration using a new bolt and nut and he tightened the nut to 5000 PSI on gauge and the hand torque wrench showed 23 foot pounds to achieve that. Kevin loosened the nut and re-tightened three more times and on the fourth time it took 45 foot pounds of torque to tighten the same bolt to 5000 PSI. The point is that by reusing bolts and nuts the same torque you applied when new, now need greater torque due to the metal stretching. Did you ever wonder how something could loosen up when you had it tight? Well, it is stretching. Stainless steel nuts and bolts have a tendency to lock up when tightened due to the metal being brittle and creating burrs. A little lubricant will help the removal. I will say this about our presenter; he sure knows his nuts……and bolts.

The last presenter was by Eric Sahffer from MSA professional. Eric’s topic was on the Northshore SSO elimination project in Duluth. The project involved two different locations with tank construction and the modification of 3 lift stations. The project was completed with one tank being built for $0.65/gallon and the other tank for $1.25/gallon. With the lift station modifications added in, the entire project was completed for $8.00/gallon. The project involved many environmental considerations and a slide presentation depicted the hurdles that were over come to make this all happen. It was an interesting presentation with state of the art design and forward thinking.

Respectfully submitted,

Wally H. Thom
Secretary NWWOA
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Legislative Changes to Septage Regulation Affect POTW Budget and Planning
Paul G. Kent, Anderson & Kent, S.C. - MEG

Earlier this year, the Legislature enacted 2005 Wis. Act 347 which made several changes to the regulation of septage in Wisconsin. Many of those changes only affect the septage hauling industry, but several others have a direct impact on municipal POTWs. MEG was an active participant in the legislative drafting process and worked to make the changes far more manageable than were originally proposed. As adopted, Act 347 does impose some additional requirements on municipalities, but with proper planning none of these provisions should create major concerns. The bill also provides for some additional programs that should make managing septage and biosolids more workable. The key provisions affecting municipalities are noted below.

Septage Fees
There are three key changes that POTWs should note relative to septage fees.

First, Act 347 requires that municipalities charge septage disposal fees based on the actual costs relating to the disposal of septage. The Legislature originally proposed to enact a strict cap on septage fees. That approach was rejected in favor of a cost based approach. This means that in setting fees, municipalities need to use the same cost based accounting procedures applicable to the rest of the system and should not set an arbitrary fee. Fees can include the cost of facilities for septage receiving and storage, the cost of testing, the cost of treating septage and the portion of administrative and personnel costs for accepting the septage.

Second, each municipal system must notify each licensed disposer of any increase in a disposal fee at least 60 days prior to imposing the increased disposal fee. This means if you set fees on an annual basis you need to make sure that all of your licensed haulers are notified 60 days prior to the effective date of the fee. The notice must include a description of how the new fees were calculated.

Finally, septage fees are now subject to a three stage process for dispute resolution, with the final review to be a formal review by the PSC. If formal review is undertaken, PSC costs may be assessed back to the POTW if the commission finds that a reasonable fee is 15% lower that the amount charged.

Clean Water Funds
The Clean Water Fund will provide loans at 0% for projects that relate to facilities for receiving and treating septage.

Facilities Planning
Facilities plans that increase capacity by at least 20% must address the septage disposal needs as part of the facilities planning process. In making the assessment, the POTW must consider among other things the amount of septage produced in the septage service area, the capacity for septage disposal, the location of private sewage systems within the service area and the potential for contracts with private sewage system owners and licensed disposers. However, the municipality does not need to conduct new research. Act 347 also specifically provides that the information is for planning purposes and “does not require construction of facilities for the handling or disposal of septage.”

Land Spreading
Act 347 provides that local units of government may not prohibit the land disposal of septage or biosolids. This is a major change that should help the availability of land for land spreading. Act 347 also places limits on the ability of local units to regulate land disposal of biosolids.
The West Central District had our meeting at the City of Boyd’s Wastewater Treatment facility. Chairman Gary Newton called the meeting to order with 64 people in attendance. Gary mentioned that we are looking for hosts for next year’s meetings and they are as follows:

February 2007 – NEILSVILLE  
May 2007 – HAMMOND/ROBERTS  
August 2007 – STANLEY

Officers for 2007 are: Co-chairmen - Gary Newton/ Dennis Holtz, Vice Chairman - Dan Manier, Treasurer - Rick Weikel. Rick is looking into the possibility of charging vendors for booth or table sites at our meetings.

The West Central competition team is as follows: Greg Imgrund, Merle Noren, Sam Warp and Rick Wiekel.

Dick Schoch gave the opening address and welcomed all to the Boyd facility.

The first speakers for the day were Dave Braun and Jeff Young from Braun Pump. They discussed their experience and what they have to offer. They went over a lift station service check up on what to look for and things to check. Its very important for the yearly checkups, documentation is needed for warranty and insurance. Always use caution when checking electrical items and always use your confined space procedures. Dave went over Dry pit versus Submersible pumps. He said dry pit pumps last longer with needing less maintenance.

Greg Kester from the D.N.R. talked about application rules, application rates and pollutant limits. He touched on molybdenum sources and some solutions to high levels. Greg compared Class A to Class B biosolids and crop nitrogen needs.

Aric Bergstrom from Ayres went over the Boyd Wastewater upgrade. The original plant was built in 1936 with an upgrade in 1983. The new plant upgrade featured new headworks with Auger Monster Screening, vortex grit removal, new SCADA system and controls and S.B.R. System.

Ray Grosch from IntelliSys talked about electronic filing and the facility data management system. The electronic filing system reduces costs (mailing, data entry etc.), improves quality of data, he gave detailed instructions on how to use the system.

Steve Thon D.N.R. talked about sampling for ammonia, to prepare for winter early, preventive maintenance and to keep working at problem solving.

A big thanks to Tom and his staff for the great dinner barbecued chicken, potato salad, pasta salad and desserts. Thanks to Braun Pump for purchasing the chicken, Ayers for buying the salads and desserts and to Dick Schoch for the morning rolls.
President Kruzick called the meeting to order at 12:25 p.m. October 5, 2006. Roll call was taken. All Officers and Directors were present. Approximately 290 attendees were present.

President Kruzick asked Jim Miller, Secretary of the Minnesota Wastewater Operators Association, to stand up and be recognized. President Kruzick asked Randy Poore, President of Minnesota Wastewater Operators Association to stand up and be recognized.

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

John Leonhard made a motion to dispense with the reading of the minutes from the October 6, 2005 Annual Business Meeting and to approve the minutes as written. LaMont Albers seconded the motion. Motion Carried.

Executive Secretary McKee distributed copies of the Financial Report. McKee reminded the membership this is an audited statement. McKee reported the revenue for this fiscal year ending August 31, 2006 is $160,392.17. Expenditures totaling $135,077.47 with excess revenues over expenditures totaling $25,314.70.

A motion was made by Dale Neis to approve the Financial Statement as presented. Jim Krueger seconded the motion. Motion carried.

NOMINATIONS-ELECTION OF OFFICERS

Nominations Chairperson, Tim Nennig reviewed nominations and election procedures. President Kruzick appointed Leo Templeton, Dale Neis, Judy Tholen, Rich Boden, Randy Herwig, Carol Strackbein, Dean Falkner, Pete Albers, John Leonhard, Jim Krueger, LaMont Albers, Dan Busch, and Wally Thom.

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Nominations Chairperson, Tim Nennig announced our new President for 2006-2007 is Kay Curtin. Tim Nennig placed into nomination the name of Jim Thalke for President-Elect. President Kruzick called three times for nominations from the floor. There being none, John Fales made a motion the nomination be closed and a unanimous ballot be cast electing Jim Thalke to the office of President-Elect. Paul Lange seconded the motion. The motion carried.

Tim Nennig placed into nomination the name of John Bond for Vice President. President Kruzick called three times for nominations from the floor. There being none, Dan Tomaro made a motion the nomination be closed and a unanimous ballot be cast electing John Bond to the office of Vice President. Ramon Knudtson seconded the motion. The motion carried.

**ELECTION BOARD OF DIRECTORS – 2**

President Kruzick informed the membership in attendance we have four candidates for the positions of Director; Dennis Egge and Wade Peterson, and two incumbents Dave Carlson and Randy Thater.

President Kruzick explained to the membership there are 2 two year Directorships and with the election of John Bond as Vice President and the resignation of Dan Tomaro, there are 2 one year Directorships open. The two with the most votes will receive the two year Directorships and the two with the least votes will receive the 1 year Directorship.

President Kruzick asked for nominations from the floor three times. There being no further nominations, Dan Tomaro made a motion to close the nominations, Kathy Garfinkel seconded the motion. Motion carried.

Each candidate spoke briefly to the membership. President Kruzick instructed the membership to vote for three.

The election results for Directors were Dave Carlson and Randy Thater for the two year terms, and Wade Peterson and Dennis Egge were elected to the one year terms.

President Kruzick congratulated Dave Carlson, Randy Thater, Dennis Egge, and Wade Peterson.
Randy Herwig made a motion to destroy the ballots. Jim Krueger seconded the motion. Motion carried.

**COMMITTEE REPORTS**

**PROMOTIONS** – Dave Carlson explained how promotions work. You can order promotional items on line directly from the supplier. Dave Carlson will have some of the new items at promotion and any items that are not available at promotion can be ordered on line. Carlson will have a list of items that can be ordered at promotion.

**TECHNICAL PROGRAM** – Jim Thalke thanked Kelly Zimmer for putting together the Golf outing and the spouses program; they both were well attended. Thalke also thanked Gil Hantzsch for putting together the tours and local arrangements. Thalke thanked the M&C Committee and the Technical Committee for all their hard work. We received 75 papers to evaluate and to select from. Technical Committee: Jim Thalke is chair; Ken Sedmak, Gil Hantzsch, Bruce Bartel, Tim Nennig, Dave Carlson, Gary Hanson, Kay Curtin, Jim Beier, Troy Larson, John Nelson, Tom Kruzick, Rich Knoelke, John Bond, Dale Marsh, Richard McKee, Jack Saltes, Harlan Mueller, Jim Smith, Randy Thater, Dan Tomaro, and Richard Mealy.

**LIAISON** – Randy Thater reminded the membership that we have three co-sponsored seminars coming up. The Governmental Affairs seminar is on March 1, 2007. Collection System seminar and the Biosolids seminar which will be held on March 21, 2007 at the new Holiday Inn and Convention Center in Stevens Point on east Hwy. 10.

**OPERATORS COMPETITION** – Bruce Bartel introduced the judges and equipment suppliers and companies. Bartel thanked them for all their help and support for the 2006 Operators Competition. The Judges are: For the Lab event, Ron Austreng and Bill Ciske; for Process Control, Tom Asmus; Collection System, Dan Waala and Mark Duerr; Mechanical, Frank Bonney and Kevin Skogman; and Safety, Pete Wachs and Gordy Koch.

Bartel stated that there were four teams this year. The Flow Pokes-Lake Michigan, Kim Williams,
Jeff Smudde and Jason Ellis; The Deuce is Loose-Southern Region, Kevin Bliss, Rodney Knoble and Brian Skaife; Straight Flush-Lake Michigan, Warren Howard, Joe Lange and Dan Vanden Avond; West Central Sewer Dogs-West Central, Sam Warp, Greg Imgrund and Rick Weikel.

First Place was the Flow Pokes-Lake Michigan Region; Second Place, the Deuce is Loose-Southern Region. All the teams did an incredible job.

Bartel thanked all the Equipment Suppliers and Companies for supplying the equipment needed for Operators Competition.

President Kruzick informed the membership that we have a total of 884 attendees this year.

There being no further business, John Leonhard made a motion to adjourn the 40th Annual Business Meeting. LaMont Albers seconded the motion. Motion carried.

President Kruzick adjourned the meeting at 1:13 p.m. October 5, 2006.

Respectfully submitted,

Richard D. McKee
Executive Secretary

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December 1, 2006

Dear Fellow WWOA Member:

The WWOA Technical Program Committee is requesting your assistance in developing the Technical Program for our 41st Annual Conference to be held October 23-26, 2007. The LaCrosse Civic Center and Radisson Hotel, LaCrosse, 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.


Submit your outline(s) on the 2007 Conference Submittal Form (via mail or fax) by January 6, 2007 to:

John Bond  Phone  715-760-1312
870 190th Street  Fax  715-749-3889
Hammond, WI 54015-5100  Email  rbtswwtp@baldwin-telecom.net

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,

John Bond
2007 Technical Program Committee Chair
41st Annual WWOA Conference
October 23-26, 2007

Technical Presentation Subject _______________________________________________________________

Author(s) / Presenter(s) ________________________________________________________________

Employer / Affiliation ________________________________________________________________

Address _______________________________________________________________________________

E-mail 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 2007 Conference Submittal Form (via mail or fax) by January 6, 2007 to:

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</tr>
<tr>
<td>MOYNO</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VALVES</th>
<th>MISCELLANEOUS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PLUG CHECK</td>
<td>BLOWER FILTERS</td>
<td>FUMP FLOATS</td>
</tr>
<tr>
<td>GATE BUTTERFLY</td>
<td>MECHANICAL SEALS</td>
<td>CHART RECORDERS</td>
</tr>
<tr>
<td></td>
<td>BEARINGS</td>
<td>FLOW METERS</td>
</tr>
<tr>
<td></td>
<td>MISC PARTS</td>
<td>CHEM FEED SYSTEMS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MECHANICAL FINE SCREENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASTE TECH INC</td>
</tr>
<tr>
<td>HUBER</td>
</tr>
<tr>
<td>HYCOR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CORROSION RESTORATION</th>
<th>LIFT STATIONS &amp; CLARIFIERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANDBLAST</td>
<td>PRIME/PAINT &amp; REBUILD CLARIFIER SLUDGE COLLECTOR DRIVE UNITS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PREVENTIVE MAINTENANCE PROGRAMS</th>
<th>WWTP EQUIPMENT &amp; LIFT STATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREVENTIVE MAINTENANCE AGREEMENTS ARE DESIGNED TO MEET YOUR SPECIFIC NEEDS. MONTHLY/ANNUALLY/SEMIANNUALLY</td>
<td></td>
</tr>
</tbody>
</table>

| DESIGN/RETROFIT/TURN KEY WATER/WASTEWATER TREATMENT PROJECTS |
|ifullded to include Lift Stations / All Process Projects with Single Source Responsibility |

ENGINEERED PRODUCTS INC.
GREEN BAY, WI
800•793•3557
Wisconsin Wastewater Operators’ Association, Inc.  
Clarifier Advertising Space Contract  
(Rates effective September 1, 2006)

Please submit this order form and advance payment to reserve advertising space for a single insertion or multiple issues. The WWOA Clarifier is authorized to insert our advertising under the terms and conditions specified herein.

<table>
<thead>
<tr>
<th>Name of Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
</tr>
<tr>
<td>Telephone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Space Size</th>
<th>#1 February</th>
<th>#2 April</th>
<th>#3 June</th>
<th>#4 September</th>
<th>#5 December</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 Page, (1 Column) H - 9 1/2&quot; W - 7 1/2&quot;</td>
<td>$175</td>
<td>$165</td>
<td>$155</td>
<td>$145</td>
<td>$135</td>
</tr>
<tr>
<td>1/2 Page, (1 Banner) H - 4 3/4&quot; W - 7 1/2&quot;</td>
<td>$175</td>
<td>$165</td>
<td>$155</td>
<td>$145</td>
<td>$135</td>
</tr>
<tr>
<td>1/4 Page, (1/2 Column) H - 4 3/4&quot; W - 3 1/2&quot;</td>
<td>$110</td>
<td>$105</td>
<td>$100</td>
<td>$95</td>
<td>$90</td>
</tr>
<tr>
<td>1/8 Page, (1/4 Column) H - 2 3/8&quot; W - 3 1/2&quot;</td>
<td>$70</td>
<td>$65</td>
<td>$60</td>
<td>$55</td>
<td>$45</td>
</tr>
</tbody>
</table>

1. Prices in advertising rates are based on camera-ready copy or prepared layout with camera-ready logo and/or artwork reduced to size.
2. Layouts of copy should be in black and white only: no colored inks.
3. Reduced rate is based on the same copy being used for each consecutive issue. Each change of copy will result in higher charges, according to the number of issues in which change copy is used.
4. Agencies are entitled to one copy of an issue regardless of the number of advertisements placed by the agency in the publication.
5. Agency commissions are not deductible from advertising rates.

We understand that all advertising is net payable in advance with advertising order.

Make check payable to: WWOA Executive Secretary

Send contract and payment to: Richard D. McKee,  
WWOA Executive Secretary  
5745 Mahocker  
Mazomanie WI 53560

Authorized By: Name ___________________________ Position ___________________________  
Signature ___________________________ Date ___________________________

For complete contract regulations:

Executive Secretary, Richard D. McKee (608) 513-9362 Email: rdmckee@wwoa.org

Clarifier Editor, Dan Busch (920) 438-1101 Email: dbusch@gbsd.org
Wisconsin Wastewater Operators Association

October 23 – 26, 2007
La Crosse, Wisconsin

Rates Guaranteed Until: FRIDAY, OCTOBER 12TH, 2007

This form is used to request room reservations for your upcoming event. The Housing Bureau holds large blocks of rooms at various hotels in the La Crosse Area. The Bureau works with your meeting planner to ensure enough rooms are held at the best possible rate when the event is planned. When we receive your housing form we process your request and send it to the appropriate hotel. You will receive a confirmation directly from the hotel. It is not always possible to place you in your first choice hotel, ALL ROOM REQUESTS ARE PROCESSED ON A FIRST-RECEIVED BASIS, if you have special needs submit form promptly. ALL ROOMS MUST BE GUARANTEED with a credit card. Any changes or cancellations prior to cut-off date must be submitted to us in writing. Cancellations and/or changes after this date must be made directly with the hotel. If you do not cancel your reservation your credit card will be charged accordingly. DO NOT SEND CASH OR CHECKS TO THE HOUSING BUREAU. If you need assistance call the La Crosse Area Housing Bureau at (608) 782-2281.

Register Online at: http://www.wwoa.org or USE EVENT CODE: WWOA

<table>
<thead>
<tr>
<th>HOTEL CHOICES (Rank hotels to your choice of preference)</th>
<th># OF ROOMS</th>
<th>CIRCLE DESIRED ROOM TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicate choice</td>
<td>Hotel Name</td>
<td># of Rooms</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>Best Western Midway Riverfront Resort</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brookstone Inn Standard Single and Double Beds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courtyard by Marriott King Jacuzzi Suites and Double Beds</td>
<td>$129.00 Suite</td>
<td>$129.00 Suite</td>
</tr>
<tr>
<td>Econo Lodge Standard Single and Double Beds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hampton Inn of La Crosse Standard Single and Double Beds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holiday Inn Hotel &amp; Suites Standard Single and Double Beds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holiday Inn Hotel &amp; Suites Single King Suite w/ Pull-out sofa &amp; kitchenette</td>
<td>$119.00 Suite</td>
<td>$119.00 Suite</td>
</tr>
<tr>
<td>Radisson Hotel Standard Single and Double Beds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Super 8 Standard Double Beds</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rates do NOT include applicable taxes. All lodging rates listed above are on a per room per night basis.

If a room with two beds is NOT available will you accept a room with one bed:  □ YES  □ NO

<table>
<thead>
<tr>
<th>ROOM #1</th>
<th>OCCUPANT NAMES (IN EACH ROOM)</th>
<th>ARRIVE/DATE (MUST BE FILLED IN)</th>
<th>DEPART/DATE (MUST BE FILLED IN)</th>
<th>SMOKING</th>
<th>DISABLED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

ATTACH SEPARATE SHEET OF PAPER IF NECESSARY. ROOM TYPES & OTHER PREFERENCES NOT GUARANTEED BY HOUSING BUREAU.

Name: ____________________________  Credit Card #: ____________________________

Title: ____________________________  Card Type: ______  Expiration date: __________

Address: ____________________________

City: ____________________________  State: ____________________________

Phone: (__________) ____________________________  Zip: ____________________________

Email: ____________________________

(Confirmations will be sent to email address provided)

* PLEASE RETAIN A COPY FOR YOUR RECORDS *

MAIL/FAX COMPLETED FORM BY OCTOBER 12 TO: WWOA HOUSING BUREAU
410 VETERANS MEMORIAL DRIVE
LA CROSSE, WI 54601

OR FAX TO: 608-782-4082;
OR APPLY ONLINE AT http://explorelacrosse.com/home/housingbureau/register.asp

USE EVENT CODE: WWOA
WISCONSIN WASTEWATER OPERATORS’ ASSOCIATION, INC.
2006 - 2007 OFFICIAL DIRECTORY

Kay Curtin, President
SEH
421 Frenette Drive
Chippewa Falls, WI 54729-3374
Work: 715-720-6288
Fax: 715-720-6300
Home: 715-790-1418
kmmarshall@sehinc.com

Jim Thalke, President Elect
Sussex Regional WPCF
N64W23760 Main Street
Sussex, WI 53089
Work: 262-246-5184
Fax: 262-246-0921
Home: 262-246-4915
jtallke@sbcglobal.net

John Bond, Vice President
Roberts WWTP
107 East Maple Street
Roberts, WI 54023
Work: 715-749-3175
Fax: 715-749-3889
Home: 715-796-5263
rhtswwtp@baldwin-telecom.net

Tom Kruzick, Past President
Oshkosh WWTP
233 Campbell Road
Oshkosh, WI 54901-3488
Work: 920-232-5365
Fax: 920-232-5366
Home: 920-582-4511
tkruzick@ci.oshkosh.wi.us

Bruce Bartel, Director (07)
Green Bay MSD
P.O. Box 19015
Green Bay, WI 54307-9015
Work: 920-438-1327
Fax: 920-438-3134
Home: 920-246-9752
bbartel@gbmsd.org

Dave Carlson, Director (08)
Fond du Lac WPCF
700 Doty St.
Fond du Lac, WI 54935
Work: 920-322-3664
Fax: 920-322-3661
Home: 920-251-9859
dcarlson@ci.fond-du-lac.wi.us

Randy Thater, Director (08)
Waukesha WWTP
600 Sentry Drive
Waukesha, WI 53186
Work: 262-524-3631
Fax: 262-524-3632
Home: 262-549-4059
rthater@ci.waukesha.wi.us

Wade Peterson, Director (07)
West Salem Public Works
900 West Ave, N.
West Salem, WI 54669
Work: 608-786-2850
Fax: 608-786-2531
Home: 608-786-3329
wpeteron@westsalemwi.com

Dennis Egge, Director (07)
Janesville WWTP
123 E. Delavan Drive
Janesville, WI 53546
Work: 608-755-3121
Fax: 608-755-3131
Home: 608-752-4573
Egged@ci.janesville.wi.us

Richard McKee, Exec. Secretary
WWOA
5745 Mahocker
Mazomanie, WI 53560
Work: 608-795-0024
Fax: 608-795-0051
Home: 608-513-9362
rdmckee@wwoa.org

2007 Convention Contacts
Local Arrangements
Wade Peterson 608-786-2850

Technical Program
John Bond 715-749-3175

Guest Program
Wade Peterson 608-786-2850

Clarifier Staff
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jvansistine@gbmsd.org
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dbusch@gbmsd.org
Jeff Haack 920-662-5111
jeffrey.haack@dnr.state.wi.us