42nd Annual W.W.O.A. Conference
September 30 - October 3, 2008
Holiday Inn Hotel & Convention Center
Stevens Point, WI

HOST:
Stevens Point Wastewater Treatment Facility
President’s Message

After a long hard snow draped winter, cool spring, and record setting rainfall amounts we had in June, it is about time to return to summer with July and August shaping up to be some very pleasant months to round out the summer. After we enjoy the rest of summer, it will be conference time again. This is the earliest I remember our conference starting with the pre-conference starting September 30. I so much look forward to this time of year when you can renew old friendships and make new ones. Peg O’Donnel (former WDNR Wastewater Operator Certification Director) once told me that she believed that much of the Wastewater Operators skills and knowledge are achieved by conversing and sharing experiences with fellow Operators during social events such as the Golf Outing, Sporting Clays, Meet and Greet, and the early morning Stretch and Walk. With a bunch of Wastewater Operators partaking in these events, you know the conversation will lead to our chosen profession. If you haven’t participated in these conference activities, please do so and you will see what Peg O’Donnel was talking about.

Another reason to join the group at this year’s conference is to congratulate the winner of the “Newcomer of the Year” award. This award is the latest honor to be given to an outstanding individual who is just starting out in the wastewater career field. “The Region of the Year” is the second new award that will be given out to one of our six regions for their excellent efforts in serving the members and organization. Will the award be presented to your Region?

Did you know that our organization regularly draws close to half its members to the annual conference? That number has been as high as over a thousand out of two thousand members. That feat is incredible. Many wastewater serving organizations can not even come close to that number. I know much of the reason for all the success is you (the member) and the continued support. Let’s keep it up.

By the time you read this, I will have two or three weeks to serve as WWOA President and will be turning the gavel over to John Bond on October 2. It has been a rewarding time and I thank you all for letting me serve as President of this great organization. I will see you at the conference.

Jim Thalke
The original Stevens Point Wastewater Treatment Plant was put into operation in 1940. Prior to that time, the City had no sewage treatment facilities. Raw sewage was discharged directly to the Wisconsin River via three outfall sewers which prompted a State order requiring all sanitary sewage to receive primary treatment. The City acting with foresight, elected to build a complete treatment plant because they felt secondary treatment would be a future requirement.

As a result of a survey started in 1953, a major addition was made to the treatment plant in 1963. This addition consisted of adding a blower building, and replacing the mechanical aerators in the two aeration tanks with compressed air aeration. During this major expansion many minor upgrades were made. Two variable speed raw sewage pumps having a maximum capacity of 3,000 gpm replaced a 500 gpm and 1,000 gpm pump. Also, a piston sludge pump was installed along with two digested sludge lagoons.

Another addition was made to the treatment plant in 1972. The modifications primarily consisted of two comminutors, a bar screen, additional raw sewage pumping capacity, two primary settling tanks, two aeration tanks with two new blowers, a clarifier, a chlorine contact tank and chlorination building, three new Return Activated Sludge (ras) pumps, a sludge division box, conversion of one existing primary tank to a waste sludge thickener, one new digester, and one new sludge lagoon.

Beginning in 1992, the treatment plant was reconstructed again. The new design eliminated old technology and incorporated new, more modern technologies. The comminutors were replaced by mechanically cleaned bar screens. Chlorine disinfection was eliminated and replaced by Ultraviolet (UV) disinfection. Grit removal was added to reduce wear and tear on pumps and associated equipment. Sludge storage lagoons were replaced by more environmentally friendly, sludge storage tanks.

In 1997, the activated sludge system was modified to facilitate enhanced biological phosphorus removal (BPR). The new activated sludge operation utilizes the anaerobic/oxic (A/O) process which incorporates biological phosphorus removal into our original activated sludge system.

A series of improvements beginning in 2003 were implemented to address plant efficiency and energy conservation. These improvements started with new grit removal and fine screening equipment which handle the incoming solids more effectively. Also, two 50 hp plant air compressors were replaced with one 15 hp unit which uses much less electricity. In addition, anaerobic digester sludge thickener efficiency was increased by installing supplemental heating of polymer dilution water and equipment that increased mixing for more effective dispersal of the polymers. Also, a water-to-water heat exchanger was installed to allow methane generated hot water to be utilized to heat three buildings. Additionally, a heat pump is now being used to tap into the heat and cooling available from our effluent water. This is used to heat and cool our lab and office building. Earlier this year the old 672 bulb UV disinfection system was replaced with a more efficient self cleaning 108 bulb system.

Most recently responsibility for the collection system has been transferred from the City to the wastewater department. Construction of a new collection system equipment storage and office area is now in progress. This new building will incorporate natural lighting, wind powered vents and heat pumps which will extract the heat from our plant effluent.
Current Design Basis

Average daily dry weather flow: 4.55 MGD
Average daily wet weather flow: 5.23 MGD
Peak hourly flow: 11.80 MGD
Average BOD₅: 8196 lbs/day
Average TSS: 8015 lbs/day
Average Phosphorus: 171 lbs/day

Monthly Average Effluent Limitations

CBOD₅: 25 mg/L
TSS: 30 mg/L
Phosphorus: 1.4 mg/L
Fecal Coliforms (Geo Mean): 400#/100 mL

The City of Stevens Point Wastewater Treatment Plant is dedicated to providing quality wastewater treatment at a reasonable cost while also protecting the environment. This is accomplished as a result of our tremendous staff that really takes pride in what they do and has resulted in USEPA and WDNR awards for operation, maintenance and lab work. We welcome visitors touring our facilities on Thursday, October 2, 2008, during the WWOA Conference in Stevens Point this year.

WWOA Conference Schedule

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<th>Venue</th>
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<td>Holiday Inn, Stevens Point</td>
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<tr>
<td>2009</td>
<td>Regency Suites &amp; KI Center, Green Bay</td>
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<tr>
<td>2010</td>
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<td>La Crosse Civic Center</td>
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Whether you need routine or emergency service, day or night, weekday or weekend, our knowledgeable service staff is ready to respond 24/7.
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While updating the Wisconsin wastewater operator’s certification exams, it came to our attention that not all operators have the funding or resources available to purchase the manuals that will be needed in order to properly study for exams. While the DNR Exam Study Guides in the future will be very comprehensive and detailed, it became clear that operators needed a place to go to get the primary reference texts the workgroups used in developing the new exams. We discussed having various members of WWOA implement a lending library, but since that would be a large and time-consuming venture, we did not feel that this was an option. Fortunately, Jack Saltes of the Wisconsin Department of Natural Resources assisted us in forming a partnership with Wisconsin’s Water Resource Library at the University of Wisconsin to implement a lending library of essential wastewater technical manuals. Several manuals have been purchased and the Water Resource Library has now set up a page for us to request these books. The link is: http://aqua.wisc.edu/waterlibrary/wastewater_treatment.asp. This link will also soon be on WWOA’s web site.

WWOA, in conjunction with the Wisconsin Section of Central States Water Environment Association (CSWEA), has donated these new technical wastewater manuals that operators may need to study for exams, research problems, or expand their knowledge of wastewater issues. The UW Water Resource Library is donating all of the time, storage area, and effort involved, making this an efficient and convenient resource for the wastewater community.

You may request a manual on-line (see link above), by phone at 608/262-3069, or from your local library via email (askwater@aqua.wisc.edu). The lending period is four weeks (28 days), and you must be age 18 or over to request manuals. We ask that you return the manuals promptly within the allotted time period so that others may use them. The manuals may conveniently be received and returned at your local library. Thanks to the University of Wisconsin Water Resource Library, there is no shipping or lending charge either to you or to WWOA. Depending on use, requests and future needs, WWOA and CSWEA will continue to donate manuals for this excellent program.

When requesting manuals, please take the opportunity to thank the staff at UW Water Resources Library for all of their work on behalf of the wastewater operators of the state.

The Wastewater Resource Library - Up and Running!
By Kay Curtin, Past President - WWOA
Free Water Sector Emergency Response Training
By Julia Riley, Wastewater Specialist
Department of Natural Resources

The Water Environment Federation® (WEF) is sponsoring no-cost training on Water Sector Interdependencies among water, energy, information technology, and transportation sectors. The primary objective of this training is to assist water sector utilities in building sustained, resilient local and regional emergency response partnerships across critical infrastructures and key resources.

Three pilot sessions will be held:

October 14-15, 2008 in Chicago, IL
November 5-6, 2008 in San Francisco, CA
January 7-8, 2009 in Atlanta, GA

Course materials for the national cross-sector training series will include a brief overview of the critical infrastructures interdependent with the water sector and a table top exercise. WEF will provide hotel accommodations for up to two nights for qualified participants and limited travel reimbursement may be available upon request. Register for the training at:


WEF was awarded a cooperative agreement by the Federal Emergency Management Agency (FEMA) of the Department of Homeland Security (DHS), to develop and deliver the training to align closely with the National Preparedness Framework and with other federal, state, and local guidelines in an effort to provide a comprehensive, consistent response to all hazards and reduce impacts and recovery times. For more information regarding the training, contact James K. Sullivan, General Counsel, Water Environment Federation, 703-684-2436 or jsullivan@wef.org.
The West Central District held their spring meeting at Dean and Sue’s Bar and Hall. Dan Manier opened the meeting at 8:30 a.m. Mayor Dennis Crop welcomed us to the Menomonie area and gave a brief history of a sewer extension for the area which is located about a mile out of town.

Dan Manier opened the business portion of our meeting. He thanked Tim Stockman and Gary Sweeney of Foth I&E for the donation of the morning rolls, and thank you to Dean and Sue for use of the hall. John Bond mentioned the different training events that will be going on this year and the annual golf outing that will be held in Mayville this year; more information on the web site. He reminded us to get our reservations in Stevens Point for the WWOA annual meeting that is a bit earlier this year starting September 30. Scholarships are available to members and family so please let a Board member know if you know someone who qualifies. We need volunteers for the competition team. It’s now a three person team event; let Dan know. Nominations for Operator of the Year are also needed. Anyone going to school can be eligible for some tuition reimbursement from WWOA. Richard Manthe has been collecting some historical items and if anyone would like to read or borrow some, just get in contact with him.

Dan introduced our first speaker for the day and it was Steve Siegfried from Loctite. Steve had a table of his products to show us. He explained thread locking, differences of each product and advantages of them. The products are anaerobic and are resins that convert from liquid to a tough structural solid. He talked about thread sealing and showed a product that would replace Teflon tape. Steve showed us a shaft that had been built up with his product and taken to proper shaft size. Go to www.loctite.com and click on distribution locations to find a supplier and also, Fastenal does handle his products.

Camille Johnson / WI DNR discussed the NR 149 and how it will affect us. The rule was published April 30, 2008 and will be effective September 1, 2008. The new rule will focus on Quality in the Laboratory. Camille discussed the new terminology and the Quality Manual. The manual must define the system and employees must follow the manual.
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The manual must be reviewed annually and signed off. Standard Operating Procedures will show how tests are done and the whole process must be in the manual. New analysts must be able to show initial demonstration of capability. The test is by the certified lab person; have the new analyst generate good quality data for each test he/she would perform. Camille listed the upcoming All Day Sessions, and for more information, please contact Rick Mealy at 608-264-6006, Richard.Mealy@Wisconsin.gov; Camille at 920-787-4686 ext 3019, or Camille. Johnson@Wisconsin.gov.

Walter Boorsma of Polyurea Midwest talked about a coating to be used in our industry. Polyurea is the coating that is very resistant to cold and heat. They have used it for relining manholes as it will not chip or crack and increases structural strength. He mentioned that the FDA has approved this product to be used in the food processing industry and safe in water systems. Walter discussed some of the applications his company has done. This is a spray on product but can be ordered as a brush application, but that use is very expensive.

Stephan Lee / Minnesota DNR Emergency Response Leader talked about the history of the Pollution Control Agency. He talked about how and why the agency was created. In the 1800s he said there were many cases of malaria and typhoid. Minneapolis had 24 direct sewage lines going into the Mississippi River in the early 1900s. A board was established in 1918 to clean up the river. Pigs Eye Plant was completed in 1938, Pollution Control Agency was created in 1945, and by 1953 the Pigs Eye Plant was at its capacity. In 1960 the agency sampled 63,000 private wells and found that 47% were contaminated.

Gary Sweeney & Tim Stockman / Foth I&E talked about the Wittenburg upgrade. A sewer system evaluation showed significant I & I. They installed a screen at a care facility that was causing some problems. They had inadequate aerated lagoon capacity. They covered the lagoons that 1) lowers operating costs 2) removes ammonia in wastewater better 3) covers lowers algae growth. The WWTP expansion upgrade cost the city $3,521,000.

Ray Grosch / IntellisyS talked about IP cameras and explained the options available for them. IP cameras are now more popular than analog cameras. Ray touched on data acquisition and storage of data, and showed how security systems could be tied to the S.C.A.D.A. system. He showed the differences between 2 pixels versus 30 pixels per second.

Plant tour of the Menomonie WWTP followed the meeting.

Steve Skinner
REEDSBURG WASTEWATER TREATMENT FACILITY

We would like to thank the following for their assistance during the flood on June 9, 2008 and our recovery in the days following:

**Consultants**

Town & Country Engineering  Vierbicher Associates

**Municipalities**

City of Richland Center WWTP  Village of Necedah
Reedsburg Street Department  Reedsburg Utilities
Reedsburg Fire Department  Reedsburg Police Department

**Contractors & Suppliers**

Friede & Associates  L. W. Allen
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Seep Plumbing, Electric & Excavating  Riberich Plumbing and Heating
H & K Excavating  Service Electric
Dorner Company  Flygt Pumps
United Liquid Waste Recycling  Zorn Compressor
Total Energy Systems  Square D Corporation

**Agencies**

American Red Cross  Wisconsin DNR

A special thanks to an unknown number of volunteers who filled, carried, and stacked a countless number of sand bags. Also to those who brought food to those working and offered a thank you or a pat on the back; you will never know how much that lifted their spirits. THANK YOU!
THE BEST TRAINING I NEVER DID!

By Glenn Smeaton

PASSION - Don’t get me wrong, I have nothing against teachers and trainers. I have seen some very effective trainers and have admired their organization and presentational skills. Teaching and training are good strategies to obtain specific results. Often, however, the desired results are not achievable by formal teaching or training. A glass of water, for instance, can be life saving if the problem is thirst. It is not much use, however, if the problem is drowning! I offer three stories to illustrate my point.

1. Training wasn’t working — or was it?

It was a warm day in May. My slide projector motor was running hypnotically. I was in a frenzy trying to make a particular course interesting. (You try discussing cationic versus anionic polymers to non chemists on a warm spring day.) One student, always the same student, was leaning slightly off vertical and his eyes were rolled up so all that I saw was white. I called a break and met with the individual. I asked what I could do to make the class more useful to him. He said that it wasn’t the class but that he was so tired. I wondered out loud since the class wasn’t required why he couldn’t skip class and go out to his car and take a nap.

He explained, “I am the local cop as well as the water and wastewater operator in my town.” Two nights ago, somebody called at 2 AM to report a rabid dog — it wasn’t. Last night there was a fire and I had to make sure the volunteer firemen had enough water. As soon as I got back to my bed the phone rang reporting a potentially violent marital quarrel. I am afraid to go to my car because they can reach me there by radio.

He pretty much finished by saying he had to go to my class because he needed the sleep! The particular class I taught ran for six hours. It covered most aspects of feeding chemicals in wastewater treatment. Since it covered a wide range of chemicals and equipment, my average student may have only needed about five minutes out of the entire six hours. Think of it, 5 hours and 55 minutes of filler and only 5 minutes of useful information! I changed my approach to training in the morning and touring the facilities of my participants in the afternoon. On tour, they discussed their problems and the other participants offered suggestions. It wasn’t very flattering but I soon discovered that most of the learning was taking place when I wasn’t in front of the room!

2. A Compliment at a Conference.

While attending an annual wastewater operators’ association conference I received a compliment. These conferences are interesting in that there are a lot of high-powered speakers presenting valuable information to the audience. Virtually all of the real learning that takes place, however, occurs during the breaks! Operators get together to talk trade with other operators. You hear terms like nocardia, cavitation, filamentous, centrifugal and positive displacement.
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If they try this line of conversation on any of their family, friends or neighbors they are sure to receive a glassy eyed stare and a polite frozen smile. So at their conference they unload a year’s worth of questions, strategies and shared information. In one of those sessions an operator came to me and said, “Glenn, I want to thank you for your idea — it really works!” I couldn’t remember the conversation or my suggestion so I asked, “How did you implement it?” As he explained, I started remembering our original conversation. He asked me about a thick layer of norcardial scum on his aeration tanks. It was preventing necessary oxygen transfer in his tanks. I asked, “What have you tried so far?” “Chlorine.” “Did it work?” “No.” “What happened?” “The chlorine didn’t reach the scum floating on top.” “What do you think you should try next?” “I’m thinking of spraying it on top but the chlorine will probably eat through the piping.” “Where have you worked with chlorine before?” “In our pump house.” “What kind of piping do you use for chlorine in your pump house?” “PVC.” “Do you think that might work for your spray system?” “It should, I will give it a try.” So where was the idea I gave him in all this? It was really his idea! I had merely helped him gain more confidence in his own problem solving skills. I could have suggested a similar approach but then I would have been reinforcing a lack of confidence in his problem solving skills. Then I accidentally said the right thing, “You identified and solved that problem by yourself — you must really take pride in that!” He stood up straight and said you are right — thank you! I learned that formal teaching and training essentially reinforce parent/child dynamics. If you need your participants to assume an adult or leadership role you can’t get there by being a parent. You have to work with them as adult to adults as they identify problems, develop strategies, implement solutions, and reflect on what was learned. This may seem slow and inefficient but it is the quickest way to achieve lasting performance improvement. Remember, it has been said of conventional training that it is the most efficient way of getting quantities of information from the trainer’s notes to the student’s notes without crossing either brain!

3. The Spark.

Consultants Thomas Mickelson, of ALG Incorporated and Bob Hegg were conducting an operator training program in Northern Wisconsin on a treatment process called, “activated sludge.” They were working harder and harder but nothing was happening. They asked the participants at the morning break, “What can we do to make your training more effective?” It turned out that none of the participants needed any information about activated sludge — they were all pond operators. They were just attending to complete their continuing education requirements to renew their state wastewater operating licenses.

Mickelson decided to stop teaching about activated sludge for the rest of that course. Instead, he asked, “What problems are you working on solving at your plants?” He changed the focus from the presenters to the participants. His participants were working to solve real problems. That was the spark that lit the room. Later, many of the participants came up and said that that was the best learning experience.
they ever had. That was the beginning of what is now identified by Hegg and Mickelson as, “Implementation Training.” What made this process differ from typical “trouble shooting” courses was that it was participant centered. Coaching and training were imbedded into the activities only when needed as part of the problem solving process.

Mickelson learned that adults don’t want to be “trained”; they want to be given the tools they need to solve their own problems. If you hand a wrench to a mechanic working on a job when he needs it, he will use it. If we hand information to our participants when they need it, they will use it. If they use a particular tool or procedure three or four times, they will remember it when they need to use it again. This process is called, “imbedded training.” Imbedded training is the heart of what Hegg and Mickelson call “Implementation Training.”

Tom Mickelson and I worked with Madison Metropolitan Sewerage District (MMSD) in adopting “Implementation Training” as an effective strategy for learning and performance support. In an effort to better describe the intent of “Implementation Training”, we renamed the process, “Learn While You Work Leadership Development (LWYW).”

Later, I met Michael Marquardt, author of Action Learning and of Optimizing the Power of Action Learning at an ASTD (American Society of Training and Development) International Conference. Although MMSD’s LWYW process evolved independently of Marquardt, what was arrived at can qualify as “Action Learning.” Whether you call it “Implementation Training” or “Learn While You Work,” or “Action Learning” — it works! If you want to try it for yourself, here is how:

1. **Start with careful project selection.** Your project should be regarded by the Directors and by the participants as an important project. Your project should have inherent learning opportunity. Your project should be conducive to a cross-functional learning team approach.

2. **Draft a specific statement of the problem to solve or opportunity to capture.** Your “project charge” should be Specific, Measurable, Attainable, Realistic, and Time-bound (SMART).
3. Carefully plan for both the project’s implementation and the related learning opportunities. This involves attention to a detailed checklist. (Remember that time spent in project identification and planning is much less costly than time spent with a room full of project participants.)

4. Follow specific procedures for the implementation phase (This is not significantly different from effective project management.) Start-up of this process should be very formal and outlined on a task list. Once the project is started, however, the facilitator must be very flexible and only provide assistance and training when needed and requested by the participants.

5. Allow time at the end of each project for celebration, reflection, and action planning. (The reflection process is what reinforces what was learned in the implementation phase. It also is what distinguishes this process from standard project management.) Celebrate early and often but make sure you take the time to reflect on what was learned (MMSD’s culture likes going out for lunch or ordering pizza as their celebration).

Conclusion
Be sure to ask:
1. What went well?
2. What lessons were learned?
3. How can we use this information in future efforts?

If you follow this process carefully, you will solve problems of strategic importance while building organizational capacity to address future problems. How’s that for getting a return on your investment!

Glenn Smeaton had this article published in a training manual, The Trainer’s Portable Mentor, published by Pfeffer of John Wiley and Sons. It is reprinted here with the permission of the author.

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Respond with sealed bids marked, “1985 International Dump Truck” to Village of Pardeeville D.P.W., P.O. Box 217, Pardeeville, WI 53954 before 4:30 p.m. on September 10, 2008. Bids will be opened on September 11, 2008 at 8:30 a.m. at our Personnel & Finance meeting. The Village reserves the right to accept or reject any bids. For more information call (608) 429-3121.
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The Department of Natural Resources is pleased to announce that Fred Hegeman has accepted the Residuals Coordinator position in the central office, filling the position vacated when Greg Kester left the department last year.

Fred graduated from UW-Madison with a BS in Civil & Environmental Engineering. He is a registered Professional Engineer and spent a few years with a consulting engineering firm designing wastewater treatment plants. He subsequently spent three years as the Vilas County Zoning Administrator responsible for several ordinances dealing with private sewage systems, lakes classification, shoreland zoning, floodplains and wetlands, and highway setbacks. He had his own plumbing business where he designed and installed septage systems, onsite wastewater treatment systems and lagoons.

Fred will be a tremendous asset to the Permits Section and we look forward to having him to tackle many of the biosolids and septage issues that have been on hold since Greg left. Fred can be reached at Greg’s old telephone number of (608) 264-9204 or by e-mail at Frederick.Hegeman@wisconsin.gov. Please join department staff in welcoming Fred to his new post.
Dear WWOA Member, Associates, and Guests:

The WWOA Board of Directors cordially invites you to the 42nd Annual WWOA Conference to be held September 30 to October 3, 2008. This year’s Conference will be held at the Stevens Point Holiday Inn and Convention Center in Stevens Point, WI.

WWOA activities kick-off Tuesday afternoon with the ever-popular Pre-Conference Workshops scheduled from 1:00 p.m. to 4:00 p.m. There will be two interesting and timely workshops to choose from: Workshop #1, “Never Fear Lab Math or Calculations Again!” and Workshop #2, “Troubleshooting & Understanding Modern Wastewater Treatment Plant & Lift Station Controls.” The workshops will be held at the Holiday Inn and Convention Center in the Evergreen and Stonefield Rooms.

At 6:00 p.m. Tuesday evening, please join us for the traditional “Meet and Greet”; an informal gathering of friends featuring an open buffet of brats, burgers, munchies and refreshments in the Commons area of the Holiday Inn and Convention Center. Come rekindle old friendships and make new friends.

Wednesday morning activities will begin at 9:00 a.m. with an Opening Address by WWOA President Jim Thalke and a Welcome Address from Andrew Halverson, Stevens Point Mayor. Following these will be our Keynote Address from Packer Radio Color Commentator, Larry McCarren. Vendor exhibits will open at 10:00 a.m. and run through 5:00 p.m. In addition, the vendor exhibits will be open Thursday morning from 8:00 a.m. until 12:00 noon.

Concurrent Technical Sessions are scheduled for the mornings and afternoons on Wednesday, and Thursday of the Conference. Training opportunities for large and small system operators will be the primary focus throughout the Conference. The Annual Operators Competition will be a featured event of Wednesday’s program beginning at 12:30 p.m. in the Convention Center Commons Area.

The WWOA Operators Luncheon and Annual Business Meeting are scheduled for 12:00 p.m. Thursday; the Social Hour & Awards Banquet is scheduled for Thursday evening beginning at 6:00 p.m. We invite you to get involved in the organization and honor your fellow operators at the Awards Banquet. The Awards Banquet will close with the return of hypnotist Dr. Jim Wand. Dr. Wand was the keynote speaker for the 1990 WWOA Annual Conference and is back by popular request.

We will be holding the popular Farewell Breakfast once again on Friday Morning. Steve Thon of the Wisconsin DNR will be discussing “Wastewater on the Frozen Tundra of Alaska.”

Plant tours will feature the Stevens Point WWTP and the Mead Wildlife Area on Thursday afternoon beginning at 1:30 p.m. Space for both tours will be limited, so be sure to sign-up in advance. This year’s Spouse/Guest Program will offer a great mix of planned excursions to enjoy the many opportunities that the Stevens Point area has to offer. Please review the Spouse’s Program schedule for a complete list of activities and offerings.

Enclosed is the Conference information and Registration Forms. PRE-REGISTRATION IS STRONGLY ENCOURAGED! On behalf of the Board of Directors, Technical and Local Arrangements Committee, we hope to see you this fall.

Sincerely,

Bruce Bartel
Technical Program Committee Chair

Kim Halverson
Local Arrangements Committee Chair
Dear Spouse/Friend:

We are very excited to once again be hosting the Annual Wisconsin Wastewater Operators’ Association (WWOA) Conference, to be held at the Stevens Point Holiday Inn on September 30 through October 3, 2008. We are also very pleased to invite you to take part in this year’s Spouse and Guest Program. The Stevens Point area offers miles of recreational trails, intriguing history, many parks and great restaurants.

The Spouse and Guest Program that we have designed for you this year includes access to all Conference activities, including the Meet and Greet, Spouse Hospitality Room, Keynote Address, Operator Walk Around Lunch, and the Farewell Breakfast. In addition, registration for the full Spouse and Guest Program entitles you to take part in a variety of exciting and interesting activities.

On Wednesday, your program starts with a continental breakfast in the guest Hospitality Room. You will receive your hospitality gift bag, and then be invited to attend the Keynote Address. After the Keynote, you will have the opportunity to paint your own unique pottery piece and then have lunch in the exhibit hall. After lunch you can create your own individual piece of beaded jewelry before attending the social hour in the exhibit area.

Thursday offers you a day of fun touring some unique places in the area. First there will be two tours that will split the group into each location. One will be at Herrschners which is one of the world’s largest craft outlet stores featuring over 20,000 craft items in stock and the other split tour is at Entrée Vous — a new concept in meal preparation for busy people. Lunch will be held at the beautiful Sentry World Golf Course in the High Court Restaurant overlooking the course. After lunch we will be headed for another split tour between two historic bed and breakfast locations, Dreams of Yesteryear and the Victorian Swan located within blocks of each other. You will be treated to tea and dessert at the Victorian Swan as well. The bus will pick up guests at each location for return back to the Holiday Inn.

Those interested in planning their trip more extensively can visit www.stevenspointarea.com.

We hope to see you in September.

Sincerely,

Kim Halverson and Eric Niffenegger
Local Arrangements and Guest Program
When the Enbridge Pipeline Needed to Keep 500 Miles of Wisconsin Dry . . .

WHO DID THEY CALL?

Call Your Nearest LCS Branch or

Tom Kimberly
Godwin Specialist

(920) 850-2500

Dri-Prime® Automatic Self-Priming Pumps
### WWOA TECHNICAL PROGRAM SCHEDULE
**Wednesday, October 1, 2008**

**Welcome Address** – President Jim Thalke – 9:00 a.m.
**Welcome** – Mayor Andrew Halverson, Stevens Point – 9:10 a.m.
**Keynote Speaker** – Larry McCarren – 9:15 a.m.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session A: Green and Sustainable</th>
<th>Session B: Infiltration and Inflow</th>
<th>Session C: It Can Happen!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderator:</td>
<td>Camille Johnson</td>
<td>Moderator: Wade Peterson</td>
<td>Moderator: Don Lintner</td>
</tr>
<tr>
<td>Room:</td>
<td>Sands</td>
<td>Room: Frontier</td>
<td>Room: Evergreen</td>
</tr>
<tr>
<td>11:25 – 11:55</td>
<td>Incorporating “Green and Sustainable” Into a WWTF Upgrade Nathan Cassity</td>
<td>Chasing Your Streams: I &amp; I Success Stories at Two Small Communities Steve Thon</td>
<td>Diagnosis of Biological Process Upsets Troy Larson</td>
</tr>
</tbody>
</table>

**Walk Around Lunch: Exhibit Hall – 12:00 - 1:30 p.m.**
**Operators Competition: Commons – 12:30 - 4:30 p.m.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session D: Energy Management</th>
<th>Session E: Lift Stations</th>
<th>Session F: Process Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderator:</td>
<td>Wally Thom</td>
<td>Moderator: Brian Helminger</td>
<td>Moderator: Jeff Deitsch</td>
</tr>
<tr>
<td>Room:</td>
<td>Sands</td>
<td>Room: Frontier</td>
<td>Room: Evergreen</td>
</tr>
<tr>
<td>1:30 – 2:00</td>
<td>Latest Blower Technologies: Are They Worth it or Are They Just A Lot of Hot Air? Steve Arant</td>
<td>Trends in Lift Station Design &amp; Operation David Arnott</td>
<td>Impact of Retrofitting to More Energy Efficient Solids Thickening at MMSD Bob Moser &amp; Bob Lecay</td>
</tr>
</tbody>
</table>

**Break: Exhibit Area 2:40 p.m. – 2:55 p.m.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Energy &amp; Process Improvements at the Antigo WWTP Jim Krueger, Larry Henderson, &amp; Trent Tierweiler</th>
<th>Lift Station Maintenance &amp; Control Troubleshooting Dave Braun</th>
<th>Hutchinson Membrane Bioreactor Case History Wendy Raisbeck</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:55 – 3:25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30 – 4:00</td>
<td>Saving Money Through Electrical &amp; Process Enhancements Tim Vick</td>
<td>Pump Clogging: Problem &amp; Solution Mike Gerszewski &amp; Jim Fischer</td>
<td>RBC Modifications – A Success Story Dave Sauer &amp; Randy Oren</td>
</tr>
</tbody>
</table>

**Social Hour: Exhibit Area 4:00 p.m. - 5:00 p.m.**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session G: Lagoons</th>
<th>Session H: Emergency Preparedness</th>
<th>Session I: H2S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moderator: John Bond</td>
<td>Moderator: Ken Sedmak</td>
<td>Moderator: Troy Larson</td>
</tr>
<tr>
<td></td>
<td>Room: Sands</td>
<td>Room: Frontier</td>
<td>Room: Evergreen</td>
</tr>
<tr>
<td>8:00 – 8:45</td>
<td>Aeration Upgrade &amp; Unique Nutrient Management</td>
<td>Generating an Emergency Response Plan (ERP)</td>
<td>Case Study of Application of Concrete Structures</td>
</tr>
<tr>
<td></td>
<td>Requirements at Sauk Prairie WWTF</td>
<td>Tom Crouse</td>
<td>Tom Steinbach</td>
</tr>
<tr>
<td></td>
<td>Tim Astfalk &amp; Leigh Hilgenberg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:50 – 9:35</td>
<td>Village of Browntown Develops Strategies to</td>
<td>WisWARN – Mutual Aid for Wisconsin Communities</td>
<td>“Good Neighbor” 101 – Odor Control Case Studies</td>
</tr>
<tr>
<td></td>
<td>Meet Future Lagoon Ammonia Limits</td>
<td>Daniel Lynch</td>
<td>Glenn Tranowski</td>
</tr>
<tr>
<td></td>
<td>Rachel Lee &amp; Ricky DeNure</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Break: Exhibit Area 9:40 a.m. - 10:00 a.m.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session J: Training &amp; Development</th>
<th>Session K: Electrical</th>
<th>Session L: Collection System Rehab</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moderator: Ron Austreng</td>
<td>Moderator: Kevin Freber</td>
<td>Moderator: Kari Dennis</td>
</tr>
<tr>
<td></td>
<td>Room: Sands</td>
<td>Room: Frontier</td>
<td>Room: Evergreen</td>
</tr>
<tr>
<td>10:00 – 10:50</td>
<td>Safety Training – How to Keep it Motivational</td>
<td>Got a Minute? I have a Quick Generator Question</td>
<td>Marine Manhole Rehabilitation</td>
</tr>
<tr>
<td></td>
<td>&amp; Economical Roy Swanke</td>
<td>Steve Mather &amp; Debbi Goehner</td>
<td>Thomas Kispert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Scott Mahnke</td>
<td></td>
</tr>
<tr>
<td>10:55 – 11:45</td>
<td>Partnering With the Community for Student</td>
<td>Performing Preventive Maintenance</td>
<td>Main Line Rehab in Unstable Soils</td>
</tr>
<tr>
<td></td>
<td>Education Edward Grondent</td>
<td>&amp; Testing Your Electrical Distribution System</td>
<td>Jim Bergles</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without Shutting Down Your Plant – Case Study</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Josef Berktold</td>
<td></td>
</tr>
</tbody>
</table>

**Operators Luncheon – 12:00 p.m. / Business Meeting – 12:30 p.m.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session M: Emerging Issues</th>
<th>Session N: Laboratory</th>
<th>Plant Tours:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Moderator: Dale Doerr</td>
<td>Moderator: Jeff Haack</td>
<td>Stevens Point WWTP</td>
</tr>
<tr>
<td></td>
<td>Room: Sands</td>
<td>Room: Frontier</td>
<td>Mead Wildlife Area</td>
</tr>
<tr>
<td>1:30 – 2:15</td>
<td>International Perspectives – Learning From</td>
<td>Tips to Help Your Lab Comply With the New</td>
<td>1:30 p.m.</td>
</tr>
<tr>
<td></td>
<td>the Work of Worldwide Entities</td>
<td>NR149!</td>
<td>Buses depart from Convention Center Main</td>
</tr>
<tr>
<td></td>
<td>Harlan Mueller &amp; Don Voight</td>
<td>Camille Johnson &amp; Tom Trainor</td>
<td>Entrance</td>
</tr>
<tr>
<td>2:20 – 3:05</td>
<td>Innovative Approach for Industry to Pay Their</td>
<td>Laboratory Equipment Maintenance</td>
<td>Plant Tours</td>
</tr>
<tr>
<td></td>
<td>Fair Share Ken Sedmak</td>
<td>Jerry Cooke</td>
<td></td>
</tr>
<tr>
<td>3:15 – 4:00</td>
<td>Emerging Pollutants of Concern in Wastewater</td>
<td>Ion Selective Electrodes</td>
<td>4:00 p.m.</td>
</tr>
<tr>
<td></td>
<td>Treatment Douglas Nelson</td>
<td>Chris Scott</td>
<td>Tour buses return</td>
</tr>
</tbody>
</table>

**Social Hour – 6:00 p.m. / Awards Banquet – 7:00 p.m. / Entertainment – 8:15 p.m.**

*Expo Hall*
Fee Schedule:

<table>
<thead>
<tr>
<th></th>
<th>Pre-Registration:</th>
<th>On-Site:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Prior to September 15, 2008)</td>
<td>(After September 15, 2008)</td>
</tr>
<tr>
<td>Member</td>
<td>$ 55.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>Non-Member</td>
<td>$110.00</td>
<td>$150.00</td>
</tr>
<tr>
<td>Non-Member with Membership Offer</td>
<td>$ 95.00</td>
<td>$ 85.00</td>
</tr>
<tr>
<td>Spouse/Guest Program - Full Package</td>
<td>$ 75.00</td>
<td>$ 35.00</td>
</tr>
<tr>
<td>Student, Retiree</td>
<td>$ 30.00</td>
<td>$ 35.00</td>
</tr>
<tr>
<td>Substitution (Re-print charge)</td>
<td>$ 15.00</td>
<td></td>
</tr>
</tbody>
</table>

Officers:

President: Jim Thalke  
President Elect: John Bond  
Vice President: Bruce Bartel  
Past President: Kay Curtin  
Director (2008): Dave Carlson  
Director (2008): Randy Thater  
Director (2009): Dennis Egge  
Director (2009): Wade Peterson  
Director (2009): Dale Doerr  
Executive Secretary: Richard McKee

CURRENT YEAR NAME BADGE REQUIRED FOR ADMISSION TO ALL CONFERENCE FUNCTIONS.

DNR credit slips will be available at the Conference Registration Area only!

WWOA TECHNICAL PROGRAM SCHEDULE
Friday, October 3, 2008

Operators Farewell Breakfast – Session N: 8:30 a.m. – 10:30 a.m. Expo Hall
Moderator: New WWOA President John Bond
Speaker: Steve Thon – Wastewater on the Frozen Tundra of Alaska

Conference Concluded

42nd Annual Conference

Stevens Point Holiday Inn Hotel
and Convention Center
Stevens Point, WI
September 30 to October 3, 2008

Host:
Stevens Point Wastewater Treatment Plant

LemTec™ Covered Lagoon Treatment Process

• Guaranteed NH₃-N removal even in cold climates through use of the LemTec™ Modular Cover
• Meets highly stringent effluent limits not achievable with other aerated lagoon systems
• Reduces capital and operating costs significantly when compared to mechanical treatment systems
• Requires less land than most comparable technologies
• Reduces sludge and solids handling
• Allows for hydraulic loading variations, temperature fluctuations, and organic surges effectively
• Expands for growth without major capital outlays

Contact Information:

LEMNA TECHNOLOGIES INC.
Innovative Wastewater Solutions
Phone: 612-253-2002
www.lemnatechnologies.com

DORNER DOES
Phone: 414-355-8685
www.dornerdoes.com

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

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- Conveyors
- Grit Removal Systems
- Clarifiers
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- Trickling Filters
- Digesters
- Flocculators
- Sand Filters
- Screw Pumps
- Airlift Pumps
- Trash Rakes
- Traveling Water Screens
- Floatation Thickeners

........ And More.

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

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5991 Division Rd. • West Bend, WI 53095
### 42nd Annual Conference
**Wisconsin Wastewater Operators’ Association**

**Tuesday**  
**September 30, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.M.</td>
<td>Board of Directors Meeting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Golf Outing: Sentry World Golf Course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sporting Clays: Pine Ridge, Wautoma, WI</td>
<td></td>
</tr>
<tr>
<td>P.M.</td>
<td>Registration Opens: Spruce Room</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pre-Conference Workshops: Evergreen &amp; Stonefield Rooms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Regional Officers Meeting: Sands Room</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meet and Greet: Convention Center Commons</td>
<td></td>
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<tr>
<td></td>
<td>Open Buffet w/ Brats, Hot Dogs, &amp; Snacks</td>
<td></td>
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<tr>
<td></td>
<td>Social, Refreshments, Beer, Wine, Soda</td>
<td></td>
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</tbody>
</table>

**Wednesday**  
**October 1, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.M.</td>
<td>Registration Opens: Spruce Room</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Welcome Address: Evergreen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Welcome Address: Evergreen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keynote Address: Evergreen</td>
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<tr>
<td></td>
<td>Vendor Exhibits: Expo Hall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technical Sessions: Sands, Frontier, &amp; Evergreen Rooms</td>
<td></td>
</tr>
<tr>
<td>P.M.</td>
<td>Walk Around Lunch: In Exhibit Area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Operators Competition: Convention Center Commons</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technical Sessions: Sands, Frontier, &amp; Evergreen Rooms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exhibits Social Hour: In Exhibit Area</td>
<td></td>
</tr>
</tbody>
</table>

**Thursday**  
**October 2, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.M.</td>
<td>Registration Opens: Spruce Room</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vendor Exhibits: Expo Hall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plant Tour Departures: Convention Center Main Entrance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technical Sessions: Sands, Frontier, &amp; Evergreen Rooms</td>
<td></td>
</tr>
<tr>
<td>P.M.</td>
<td>Operator Luncheon: Stonefield Room</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Meeting: Stonefield Room</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Technical Sessions: Sands, Frontier, &amp; Evergreen Rooms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Hour: Expo Hall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Awards Banquet: Expo Hall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Entertainment: Expo Hall</td>
<td></td>
</tr>
</tbody>
</table>

**Friday**  
**October 3, 2008**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.M.</td>
<td>Farewell Breakfast: Expo Hall</td>
<td></td>
</tr>
</tbody>
</table>

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*President: Jim Thalke  
Mayor: Andrew Halverson  
Key Note Speaker: Larry McCarren  
See Program Schedule  
See Program Schedule  
Hypnotist: Dr. Jim Wand  
Steve Thon*
WWOA CONFERENCE GOLF OUTING
Sentry World Golf Course
601 N. Michigan Ave.
Stevens Point, WI  54481

Date:  Tuesday, September 30, 2008

Time:  10:00 a.m. Sharp “Shot Gun Start”
        18 Hole Scramble Format

Prizes:  1st, 2nd, & 3rd place team–Longest drive,
          longest putt, closest to pin

Cost:  WWOA Members, Manufacturers,
        Engineers, Suppliers and Conference
        Attendees - - - - - - - - - - - $75.00

Cost Includes:  Motorized cart, 18 holes golf,
                box lunch, Hors D’oeuvres and cash bar
                during award/prize drawing in the High
                Court Restaurant at Sentry World.

Payment must be received no later than September
5, 2008 with names of foursome or individuals.
(Committee will assign if not in foursome).

Please RSVP early as we are limited to 120
participants.

No refunds after September 5, 2008 unless course is
closed by decision of Club Management.

Directions:

From I-39 take the Bus. Hwy 51 exit. Go South to
Northpoint Drive. At stop & go light turn left or East to
Michigan Ave. Golf Course is on the right.

Name: ____________________________________
Address: __________________________________
City: _____________________________________
State/Zip: _________________________________

Part of a Foursome?      Yes          No

Others in my foursome:

__________________________________________
__________________________________________
__________________________________________
__________________________________________

Make check payable to WWOA.

Mail registration card and fee to:
Richard D. McKee
WWOA Executive Secretary
24184 Fawn Meadow Lane
Richland Center, WI  53581

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PH 920 582-0454  FAX 920 582-0478
6635 COUNTY HIGHWAY WINNECONNE, WI 54980
This form is used to request a room reservation for your upcoming event. The Stevens Point Area Convention & Visitors Bureau (CVB) has held large blocks of rooms at various hotels within 1 mile of the convention center. The CVB 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 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. Telephone reservations are not accepted. All rooms must be guaranteed with a credit card. Any changes or cancellations prior to cut off date must be submitted in writing. Cancellations and/or changes after September 19, 2008 must be made directly with hotel.

Indicate Choice # 1-9

<table>
<thead>
<tr>
<th>NAME OF HOTEL</th>
<th>RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holiday Inn Hotel &amp; Convention Center – Host Hotel, Standard Room</td>
<td>$99 single/Double  $109 triple/quad</td>
</tr>
<tr>
<td>Holiday Inn Hotel &amp; Convention Center-Host Hotel, Suite Room</td>
<td>$139</td>
</tr>
<tr>
<td>Holiday Inn Express-Standard Room</td>
<td>$99</td>
</tr>
<tr>
<td>Holiday Inn Express-Suite Room</td>
<td>$139</td>
</tr>
<tr>
<td>Fairfield Inn-2 Queen Beds</td>
<td>$90</td>
</tr>
<tr>
<td>LaQuinta –Standard Room</td>
<td>$76</td>
</tr>
<tr>
<td>LaQuinta-Suite</td>
<td>$85</td>
</tr>
<tr>
<td>Royal Inn-Non Poolside</td>
<td>$59</td>
</tr>
<tr>
<td>Royal Inn-Poolside Room</td>
<td>$69</td>
</tr>
</tbody>
</table>

Rates do not include applicable tax (13.5%). Rates Guaranteed Until Thursday, September 18, 2008

<table>
<thead>
<tr>
<th>NAMES OF EACH PERSON</th>
<th>ARRIVAL DATE</th>
<th>DEPARTURE DATE</th>
<th>SMOKING</th>
<th>ACCOMODATIONS DESIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room #1</td>
<td></td>
<td></td>
<td>Yes/No</td>
<td>S=Single (1 bed, 1 person)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D=Double (1 bed, 2 people)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>T=Triple (2 beds, 3 people)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Q=Quad (2 beds, 4 people)</td>
</tr>
<tr>
<td>Room #2</td>
<td></td>
<td></td>
<td>Yes/No</td>
<td>S=Single (1 bed, 1 person)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D=Double (1 bed, 2 people)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>T=Triple (2 beds, 3 people)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Q=Quad (2 beds, 4 people)</td>
</tr>
</tbody>
</table>

If a room with two beds is NOT available will you accept a room with one bed? YES NO
If a non-smoking room is NOT available will you accept a smoking room? YES NO
Do you need a handicap accessible room? YES NO

CONFIRM RESERVATION TO:
Name: ________________________________
Company: ________________________________
Address: ________________________________
City: __________________________ State: __________ Zip: __________
Email: ________________________________
Phone: ________________________________

Credit Card Number: ___________________________ Expiration Date: __________

Please retain a copy of this form for your records. ALL FORMS MUST BE RECEIVED NO LATER THAN THURSDAY, SEPTEMBER, 18, 2008. DO NOT SEND CASH OR CHECK TO THE CVB. For questions regarding the housing form, please email sara@stevenspointarea.com or call 715-344-2556.

Return this form to: SPACVB- Housing Bureau, 340 N Division Street, Stevens Point, WI 54481 Fax: 715-344-5818
WWOA SPORTING CLAYS
Pine Ridge
N3387 State Road 73
Wautoma, WI 54982

Date: Tuesday, September 30, 2008
Time: 9:30 a.m. Sharp “Shot Gun Start”
Prizes: 1st, 2nd, & 3rd place team–Best individual score
Cost: WWOA Members, Manufacturers, Engineers, Suppliers, and Conference Attendees - - - $35.00

Cost Includes: 10 station/50 target shoot, (you may bring your own shells or purchase at Pine Ridge) scorecards, lunch / snacks / chips / cookie / soda water served during awards/ prize drawing.

Other Services: Cash Bar

Payment must be received no later then September 5, 2008 with names of three/foursome or individuals. (Committee will assign if not in three/foursome).

Please RSVP early as we are limited to 80 participants.

No refunds after September 5, 2008 unless course is closed by decision of Club.

Driving Directions from the South:
From Milwaukee - Take I-94 to I-41/45N. Continue on I-41 North to Oshkosh exit 119 (WI Hwy 21). Take Hwy 21 west 38 miles to Wautoma to Hwy 73. Stay on Hwy 73N through Wautoma, about two miles to lodge entrance on left.

From Madison — Take I-90/94W toward WI Dells. Take exit 108 B to I-39 North to exit 124 (Hwy 21) turn right to Hwy 21 East to Wautoma. Turn left to continue on Hwy 21/22 to Hwy. 73 N. Turn left onto Hwy 73. Lodge entrance is about two miles on left.

Driving Directions from the North/West:
Take I-90 East to Hwy 21 East. Turn left to continue on Hwy 21/22 to Hwy 73 N. Turn left onto Hwy 73. Lodge entrance is about two miles on left.

Driving Directions from the East
Take US-41 towards Oshkosh. Take WI-21/Omro Rd Exit 119-towards Oshkosh Ave. Turn Right onto WI-21/Omro Rd. Continue to follow WI-21 W. Turn Right onto WI-116/ WI-21. Stay straight to go onto WI/W Main Street. Continue to follow WI-73 through Wautoma about two miles lodge entrance on left.

WWOA Sporting Clays
Registration Form

Name: ________________________________
Address: ______________________________
City: _________________________________
State/Zip: _____________________________
Part of Three/Foursome? Yes No
Others in my Group: ____________________
______________________________________
______________________________________
______________________________________
______________________________________

Make check payable to WWOA.

Mail registration card and fee to:
Richard D. McKee, WWOA Executive Secretary
24184 Fawn Meadow Lane, Richland Center, WI 53581

WORKSHOP:
Biological Phosphorous Removal for Engineers

Come and learn about introductory and advanced design principles for phosphorous control within wastewater treatment plants. Dinner is included with the workshop.

Who: CSWEA Young Professionals
Where: Symbiont’s Headquarters
West Allis, WI 53214
When: September 18, 2008

If Interested, please visit: www.symbiontonline.com/CSWEA-YPEvent.htm
Pre-Conference Workshops
Tuesday, September 30, 2008
1:00 p.m. - 4:00 p.m.

Pre-Conference Workshops Agenda
Tuesday, September 30, 2008

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop #1, continued</th>
<th>Workshop #2, continued</th>
</tr>
</thead>
</table>
| 1:00 to 2:00 | Never Fear Lab Math or Calculations Again!  
Presenters: Rick Mealy  
George Bowman  
Moderator: Kay Curtin | Troubleshooting & Understanding Modern Wastewater Treatment Plant & Lift Station Controls  
Presenter: Todd Schlutz  
Moderator: Reid Snedaker |
| 2:00 to 2:15 | Break | Break |
| 2:15 to 4:00 | Never Fear Lab Math or Calculations Again!  
Presenters: Rick Mealy  
George Bowman  
Moderator: Kay Curtin | Troubleshooting & Understanding Modern Wastewater Treatment Plant & Lift Station Controls  
Presenter: Todd Schlutz  
Moderator: Reid Snedaker |

Registration Form

Name: ________________________________
Address: ______________________________
City: _________________________________
State: ________    Zip Code: ______________
Phone: _______________________________
Employer: ____________________________
Workshop #: __________________________
Cost: $15.00 Pre-Registration  
$20.00 On-site
Includes refreshments between Workshops
3.0 DNR credit hours  
available for full 1:00 p.m. to 4:00 p.m. workshop attendance  
(wastewater only)

Mail Registration card and fee to:  
Richard D. McKee  
WWOA Executive Secretary  
24184 Fawn Meadow Lane  
Richland Center, WI  53581
ENGINEERED PRODUCTS INC. • GREEN BAY, WISCONSIN
800 • 793 • 3557

SPECIALIZING IN
THE WATER/WASTEWATER
INDUSTRY

SALES • SERVICE • REPAIR • INSTALLATION • PREVENTIVE MAINTENANCE

ENGINEERED PRODUCTS HAS EXPERIENCE WITH THE FOLLOWING MANUFACTURED EQUIPMENT:

PUMPS
HYDROMATIC
FAIRBANKS MORSE
NETZSCH
CROWN/BARNES
CHICAGO
GORMAN-RUPP
FLYGT
MYERS
TSURUMI
Ebara
WEINMAN
MARLOW PISTON
SMITH & LOVELESS
A-C
PACO
MOYNO
E-ONE

BLOWERS
SUTORBILT
ROOTS
MD PNEUMATIC
KAESER • SPENCER
GARDNER DENVER
HOFFMAN/LAMPSON
VALVES
PLUG • CHECK • GATE • BUTTERFLY
HOMESTEAD
MOSSER
BERMAD
DEZURIK
NIAMCO
TECHNO
TROY
CLOW
GA

COMMINUTORS
SMITH & LOVELESS
CHICAGO
WORTHINGTON

MISCELLANEOUS
BLOWER FILTERS
MECHANICAL SEALS
BEARINGS
MISC PARTS
PUMP FLOATS
CHART RECORDERS
FLOW METERS
CHEM FEED SYSTEMS

MECHANICAL FINE SCREENS
WASTE TECH INC • HUBER • HYCOR

CORROSION RESTORATION LIFT STATIONS & CLARIFIERS
SANDBLAST • PRIME/PAINT • REBUILD CLARIFIER SLUDGE COLLECTOR DRIVE UNITS

PROFESSIONAL SERVICES
EQUIPMENT SELECTION • SIZING • INSTALLATION • START UP
DESIGN/RETROFIT/TURN KEY WATER/WASTEWATER TREATMENT
TO INCLUDE LIFT STATIONS / ALL PROCESS PROJECTS WITH SINGLE SOURCE RESPONSIBILITY
**WWOA Spouse and Guest Program**
**September 30, 2008 - October 3, 2008**
**Stevens Point Holiday Inn**
**Stevens Point, WI**

**Tuesday, September 30, 2008**
6:00 p.m. - Meet and Greet

**Wednesday, October 1, 2008**
8:00-9:00 a.m. — Wisconsin Room
Spouse Hospitality Room

9:00-10:00 a.m. — Evergreen Room
Conference Opening and Keynote Speaker

10:15 a.m.-12:15 p.m. — Pottery painting

Lunch for paid participants is in the Exhibit Hall with
the Operator Walk Around Lunch

2:15-3:30 p.m. — Bead jewelry making

4:00-5:00 p.m. — Social Hour in Exhibit Area

**Thursday, October 2, 2008**
8:00-9:30 a.m. — Wisconsin Room
Spouse Hospitality Room

9:45 a.m. — Load buses for tours

10:00 a.m. — 12:00 p.m. — Tour Herrschners or
Entrée Vous (25 people at each location for one hour)

12:30 —1:30 p.m. — Lunch at Sentry World High
Court

1:45 p.m. — Load buses for Bed & Breakfast Tours

2:00 — 4:00 p.m. — Split tours between Bed &
Breakfasts - Dreams of Yesteryear and Victorian
Swan who will also serve afternoon tea to include
dessert (25 people each location — 1hr)

4:00 p.m. — Return to Holiday Inn

Advance Registration for the Full Spouse and Guest package is $75.00. (Banquet Not Included)

Spouses and Guests are encouraged to register in advance. On-site registration will be available for the Spouse and Guest Program will be at $85.00 (Banquet Not Included)

Admittance to all Spouse and Guest Program functions will be by badge only. Please note that the Spouse and Guest Packages are designed for adults.

**PLEASE REGISTER EARLY AS SPACE FOR ACTIVITIES IS LIMITED TO 50 PEOPLE.**

**Stretch and Walk Sessions**

6:30 a.m. Wednesday & Friday

At 6:30 a.m. Wednesday & Friday morning we will hold a Stretch & Walk session in the registration area.

We’ll start with a five minute warm-up stretch routine and then proceed out for a group walk for 20 to 30 minutes.

Join us and get your day off to a healthy start.

See you at 6:30 a.m.
SPOUSE/GUEST PROGRAM

42nd Annual Conference
Stevens Point Holiday Inn
Stevens Point, Wisconsin
September 30 to October 3, 2008

SPOUSE/GUEST PROGRAM
(Please Type or Print Clearly)

Last Name: __________________________________
First Name: __________________________________
M.I.: _________________________________________
Nickname (For Name Tag): ______________________

PRE-REGISTRATION
(Prior to September 15, 2008)
Spouse/Guest Program $75.00

ON-SITE REGISTRATION
(After September 15, 2008)
Spouse/Guest Program $85.00

Spouse and Guest Program Details:

The Spouse and Guest Program offers:
• Tuesday Meet and Greet
• Keynote Address
• Admission to Exhibits
• Spouse and Guest Hospitality Room
• Pottery painting and jewelry making
• Wednesday Social Hour
• Tours of Herrschners Craft Outlet & Entrée Vous
• Luncheon at Sentry World
• Bed and Breakfast historic tours
• Farewell Breakfast

2008 Clarifier Deadlines

<table>
<thead>
<tr>
<th>Issue</th>
<th>Submittal Due Date</th>
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<tbody>
<tr>
<td>December 2008</td>
<td>November 7</td>
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Translated from French, Belleville literally means “beautiful village,” and folks these days seem to think the name fits. Belleville’s high quality of living and authentic small town atmosphere is attracting additional residents and businesses. The new wastewater treatment plant is designed to grow as the community grows. Now, folks around here can rest easy—and play a little harder. Laissez les bon temps rouler!*  

*Let the good times roll!
APPLICATION FOR MEMBERSHIP

YES! I want to take advantage of the 2008 registration/membership package.

I hereby apply for active membership in the Wisconsin Wastewater Operators’ Association, Inc. (WWOA).

Name: ____________________________________
Address: __________________________________
City: _____________________________________
State: ________________ Zip: ________________
Work Phone: _______________________________
Home Phone: ______________________________
E-Mail Address: ____________________________

Affiliation: ___Municipal ___DNR/EPA
___Consultant ___Student ___Educator
___Industrial Operator ___Manufacturer/Sales

Membership Classification:
___Operator ___Certified Operator ___Student
___Educator ___Regulatory ___Retired
___Consultant ___Other

This Applicant is recommended by:
Member: _______________________________
City: ____________________ State: __________

Send Membership Application along with Conference Registration.

New Registration Option
Registration/Membership Package

This package is available to non-members only and is available thru pre-registration only. Package provides: conference registration and a two-year membership in WWOA for $95.00. You must fill out the short membership application attached to this registration form. Take advantage of this opportunity to add a WWOA membership, save $15.00 when compared to non-membership registration and save on registration cost next year. Also complete the Registration Form.

Manufacturers & Consultants

SPONSORSHIP FEE
(In Addition to Conference Registration)
Manufacturing, Consultant Engineering Firms, Sales Firms, Exhibitors and Contract Operation Firms
(one fee per firm) $75.00

EXHIBIT FEE
(In addition to Booth Registration & Sponsorship)

*Fee Includes one WWOA member Registration

*Before August 1, 2008 Included in fee

8’X10’ $330.00 1 Registration

*After August 1, 2008 Included in fee

8’X10’ $510.00 1 Registration

Instructions:
Complete all the applicable entries on the front and reverse of this registration card.

Pre-registration saves you money and more importantly time. Register before September 15, 2008 and SAVE TIME & MONEY!

Non-Members: Take advantage of New Registration/Membership Package

Add Total Due for Technical Program, Spouse Program, Additional Activities and Membership Dues. Make Check Payable to WWOA.

Admittance to all events is by badge only; Including Exhibit Hall, Walk Around Lunch, etc.

Total Enclosed: $____________________

Please Note: Cash, checks, VISA, MasterCard, and Discover will be accepted as payment.
REGISTRATION FORM
(Type or Print clearly)

Last Name  First  M.I.

Nickname (For Name Tag)

Firm Name (If Consultant or Manufacturer)

Mailing Address

City  State  Zip Code

Telephone (Work): ________________________

Telephone (Home): ________________________

Position/Title: ____________________________

Regional Affiliation

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<tr>
<th>Affiliation</th>
<th>Member Affiliation</th>
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<td>WC</td>
<td>Septage Operator</td>
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Member Affiliation

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To assist the Planning Committee, please check the following if you plan to attend.

Tuesday, September 30, 2008
Meet & Greet No. __________

Thursday, October 2, 2008
Stevens Point WWTP
Mead Environmental Area

Conference Registration
Please check all choices

PRE-REGISTRATION
(Prior to September 15, 2008)

___ WWOA Member $55.00
___ Non-Member $110.00
___ Non-Member Plus WWOA Membership-
(steps-Registration Only) $95.00
___ Retiree $30.00
(Must be at least 60 years old and
retired from wastewater industry)
___ Student $30.00
(Must send copy of valid student ID)

ON-SITE REGISTRATION
(After September 15, 2008)

___ WWOA Member $100.00
___ Non-Member $150.00
___ Retiree $35.00
(Must be at least 60 years old and
retired from wastewater industry)
___ Student $35.00
(Must provide copy of valid student ID)
___ Substitution or Re-Print Charge $15.00

Sign-up for plant tours will be on-site in the registration area.
Conference Registration
No refunds of conference fees after September 15, 2008

ADDITIONAL FUNCTIONS

OPERATORS’ BUSINESS LUNCH:
Beef Pot Roast
No. of Tickets _________________@ $15.00

AWARDS BANQUET:
No. of Tickets _________________@ $25.00
Check Choice:  ___Filet Mignon (8 oz.)
               ___Chicken Oscar
               ___Grouper Sicilian

FAREWELL BREAKFAST:
(All registered Spouse/Guest are welcome)
No of Tickets ____________@ No Charge if Registered

SOCIAL HOUR:
Courtesy of Manufacturers & Consultants

WWOA DUES: (if Applicable)
Two years dues __________________________$40.00

TOTAL ENCLOSED $ __________________

Print or Type Clearly
VISA Mastercard Discover
Name on Card: ____________________________
Card No.: ________________________________
Expiration Date: _________________________

2008 Conference Committees

Local Arrangements & Spouse/Guest Program:
Kim Halverson — Stevens Point Director of Water and Wastewater
Eric Niffenegger — Stevens Point WWTP

Technical Program:
Chair: Bruce Bartel

Kay Curtin  Wade Peterson  Tom Crouse
Gil Hantzsch  Brian Helminger  Troy Larson
John Bond  Dennis Egge  Ron Austreng
Reid Snedaker  Dave Carlson  Gary Hanson
Richard McKee  Harlan Mueller  Rick Mealy
Jim Thalke  Randy Thater  Dale Doerr
Camille Johnson

Exhibit &Manufacturers & Consultants Committee:
Chair: Carol Strackbein & Jim Shaw
Dave Dorner - The Dorner Company
Tom Mulcahy - Mulcahy/Shaw Water, Inc.

Water Treatment is our Business...
Billings, MT  406-245-6246
Black Hawk, SD  605-787-6881
Columbia, MO  573-886-9500
Eldridge, IA  563-285-6234
Fargo, ND  701-293-9618
Fond du Lac, WI  920-923-1850
Garnett, KS  785-448-1610
Joliet, IL  815-727-2750
Lincoln, NE  402-420-0755
Minneapolis, MN  612-331-9100
Sioux Falls, SD  605-368-5793
Slater, IA  515-685-2250
Superior, WI  715-392-5121
Washburn, ND  701-462-8588

Hawkins Water Treatment Group has been meeting the requirements of commercial, industrial, municipal and institutional organizations in the Upper Midwest since 1938.
3100 East Hennepin Avenue
Minneapolis, MN 55413
Phone: 612-331-9100
Fax: 612-617-8696
Driving the Mercury Down
Are you Ready?

The State of Wisconsin will soon be requiring all waste water discharge permit holders to utilize method 1631E for the analysis of Mercury, often referred to as “Low Level Mercury” testing. If you have yet to find a lab that can support these new testing demands, see why TestAmerica has your answers to this and many more of your daily needs.

- The nations largest testing capacity for method 1631E
- Custom, mercury clean bottle kits
- Training support for “Clean Hands – Dirty Hands” sampling
- Guaranteed - results in 7 days or less
- On-line data view through Total Access™

TestAmerica’s Watertown Laboratory
602 Commerce Drive
Watertown, WI 53094
contact: Warren Topel
tel: 920.261.1660
e-mail: warren.topel@testamericainc.com

2007 Customer Service Award Winner
On February 20, 2008 the Lake Michigan District held its first meeting for 2008 at Best Western Riverfront Inn in Marinette, WI. There were a total of 68 attendees.

Brian Helmingter, LMD Chairperson, called the business meeting to order for the first time as chairperson. Brian introduced John Schoen of Seymour WWTP as the new LMD Vice Chairperson and this year’s competition coach. Brian told the attendees that comments and ideas are welcome for technical session’s subjects and ideas for improvements. Brian also thanked the members for a great response to update e-mail and contact information.

Brian then called Jeff Mayou, outgoing LMD Chairperson, to thank him for the past year’s efforts and dedication and to present Jeff a Plaque of Appreciation.

Thanks to Donohue & Associates was given for sponsoring the morning rolls and refreshments. Brian also announced that Jack Boex of Green Bay MSD will be retiring in March. LMDs’ next meeting for 2008 will be a joint meeting with the SE region in Berlin, WI on May 22. Additional announcements, including educational opportunities, were projected on a screen at break.

After review of the minutes and treasurer report read by Secretary/Treasurer George Kemmeter, there was a motion to accept both items as presented. Brian then asked for a motion to adjourn the business meeting and it was seconded.

Jeff Haack was introduced and had the following three announcements from DNR:

1) Exam applications are now available for the May 7 Operator Certification exams. If you have not received an application in the mail and wish to take exams that day, you can either download the application from the Operator Certification page on the DKNY’s web site, or call Dick Sachs, the Operator Certification Program contact for the Northeast Region. The deadline for submitting exam application is April 9.

2) The Spills Program in the DNR has made available handy-size stickers with the “Spill Emergency Hotline” telephone number (1-800-943-0003) for reporting spills. These are convenient for spill response manuals required for Septage Operators, something that’s also advisable for anyone hauling wastewater treatment plant sludge or bio-solids. Meeting participants can contact me throughout the day if they would like one or more of these stickers.

3) The UW-Extension, Milwaukee MSD and US EPA are sponsoring a one day workshop in Milwaukee on April 30 titled, “Take the Bite out of Dental Amalgam Waste.” Dentist offices are believed to be the source of something like 60% of the total amount of Mercury discharged to sanitary sewer systems. Large municipalities are required to have Pollutant Minimization Programs for Mercury, so they may find this workshop useful in their efforts.

Warren Howard of Marinette WWTP then introduced Mayor Bob Harrick and he welcomed everyone to Marinette and educated them on the City of Marinette.

The first speaker of the day was Ed Wagner of L & S Electric and his presentation was Electrical Equipment - Recommended Methods, Intervals & Procedure. Ed discussed electrical system maintenance. The best choice is Infrared Thermography. It’s simple, easy, fast and inexpensive. It looks at the root of where the problems start and fester at electrical connections. Caught early, parts can be purchased ahead of time and make scheduled repairs during a convenient time. The second best choice would be oil samples on liquid transformers. This method is also inexpensive.
It looks at the inside condition of a transformer, where you can’t see and inspect. Done routinely, it will give a trend, and let you know where work will need to be done long before a failure. The third and last method is simple cleaning and inspection. This is done in house by just inspecting and vacuuming. You can eliminate a lot of potential failures. If something is found that needs attention, an expert can be hired to handle the situation and corrective action can be taken. In conclusion, Ed recommended to pay a little time and money routinely, or pay the big bucks and time when a failure occurs.

The next presentation was on Safety Issues for WWTP Specific Application given by Bob Popelka of Vorpahl Fire & Safety.

The group saw a PowerPoint showing photos of how safety issues were resolved at other WWTF. The issues viewed were: Confined Space Entry, Retrieval, and Fall Arrest and Fixed Gas Detection, Lock out/Tag out, Electrical Arc Flash PPE, and Facility Identification. They viewed actual confined space and fall arrest equipment such as the UCL Davit system and the Multi Pro multi gas detector.

This next generation of gas detection provides computer generated user record keeping and provides automatic bump test or calibration by simply setting it in the I/Q Express docking station.

Marinette WWTF brought in their recently purchased Davit arm winch system and base units by UCL-DBI/SALA that included the use of a self retracting life line.

The equipment was demonstrated and its purpose was discussed with the group who viewed its versatility as both a confined space rescue tool that also provides the require fall arrest while descending a ladder into vessels like clarifiers.

PowerPoint photos of proper facility identification were shown depicting the importance of tank plaques, electrical arc flash labeling, confined space entry signs, hearing protection and safety glasses required.
signs, pipe marking, eye wash stations, AED’s and lock out/tag out.

Right before lunch Bill Marten, P.E. from Donohue & Associates provided a powerpoint presentation covering Sidestream & Struvite: Issues and Control.

This presentation would review the key sidestreams in wastewater treatment plants, including a discussion of their key characteristics, their impacts on the liquid treatment train, and how to control them, with a special focus on struvite formation and control associated with anaerobic digestion.

After a tasty lunch buffet, we started off with a presentation by Steve Arant of Earth Tech, Inc., entitled “Phosphorus and Nitrogen Control Where We Are Going and How We Will Get There.”

Steve’s talk included a presentation of Wisconsin’s preliminary nutrient standards for phosphorus, together with standards developed in other parts of the Country. Wisconsin is considering water quality standards for phosphorus (in-stream) of approximately 0.10 mg/L. This value is in contract with the State’s current effluent standard for phosphorus of 1.0 mg/L. Total nitrogen standards are not currently being developed in Wisconsin, but may be required in the future as a result of the TMDL being developed for the Mississippi River Basin. Total nitrogen effluent limits as low as 3.0 mg/L could be a requirement in the future. Steve presented technical aspects of nitrification, de-nitrification, biological phosphorus removal, chemical phosphorus removal and shared methods currently being used to reach low levels of phosphorus and nitrogen.

Brian Helminger, LMD Chairperson for his first time adjourned the meeting and instructions to Marinette WWTP were given and credit slips were distributed as the attendees headed out the door.

Respectfully Submitted,

George Kemmeter
LMD Secretary
PHOENIX Process Equipment Co. Appoints Mulcahy/Shaw Water, Inc.

A Mequon, WI, company with over 35 years of experience in water and wastewater equipment sales and service, Mulcahy/Shaw Water will represent PHOENIX Process Equipment Co. with its belt filter press dewatering systems.

“We are very pleased to announce the appointment of Mulcahy/Shaw”, says John Waugh, Vice President of Marketing for PHOENIX. “Their experience and capabilities are a great fit for us and will allow us to improve our exposure and provide for meaningful growth opportunities for both companies.”

Tom Mulcahy, Mulcahy/Shaw’s president, comments, “Our representation of PHOENIX is a logical extension of our current mix of equipment and services for water and wastewater treatment.”

PHOENIX Process Equipment Co. is a leading global supplier of systems for separation, classification, thickening and dewatering dredged sediments and minerals slurries and for dewatering sludge from industrial and municipal wastewater treatment systems.

For more information contact PHOENIX Process Equipment Co. at (502) 499-6198, or visit us at www.dewater.com.

Submersible Wastewater Pumps for Sale

Two Gorman-Rupp Model JSV3B60 submersible wastewater pumps with 2.7 Hp, 1/60/230 volt explosion proof motors, stainless steel lifting cables and guidrails, and 26 feet of power/control cables. Salvaged pumps were in operation from 2004 to 2008, and each have less than 425 operating hours.

$1500 or best offer for all equipment.

Call Tom in the Appleton area at (920) 731-1555 or email applehillman@aol.com.

What’s Your Back-up Plan?

Do you know when your next sewer system crisis will rise up? If not, then you should know...

- Visu-Sewer offers complete sewer maintenance programs designed to eliminate back-ups!
- We employ trenchless methods for cleaning, inspecting and even repairing sewer systems, so you can avoid costly road repairs and excavation!
- Visu-Sewer is the oldest and largest full service sewer inspection, maintenance and rehabilitation contractor in the Midwest, having inspected, cleaned or repaired over 15,000,000 feet of sanitary sewers and storm drains since 1975!

What should your back-up plan be? Call Visu-Sewer today!
NORTH CENTRAL DISTRICT
SPRING MEETING

On April 22, 2008, the North Central District held its spring meeting in Rosholt at the High School auditorium. There were 38 members in attendance.

Bob Kurszewski, Public Works Operator for Rosholt, welcomed everyone to Rosholt and thanked Earth Tech for supplying the donuts for all to enjoy prior to the meeting.

Bob then went on to introduce the first presentation of the day of Lift Station Mechanical upgrades given by Don Voigt from Energenes. Don gave a breakdown on the differences in types of lift stations offered for installation. Each of the six types: wet well mounted, recessed wet well mounted, submersible with above grade valve vault, submersible with valves in protected valve vault, factory built buried station, and concrete built-in-place may suit varying needs depending on the situation. The installation and maintenance costs for each type were then broken down for a couple ranges of horsepower pumps installed. Also each type had various pros and cons as to maintenance practices and also with respect to weather conditions.

In addition, Don also provided the attendees with a copy of a lift station design aid. This provided guideline of questions an operator or governing body could ask when looking at installing or integrating a new lift station into their system. Important details such as initial cost, longevity, and service costs really need to be addressed when planning such a crucial piece of the collection system, and the needs also vary by each community. It is also important that the operators have input in the designs and layouts to produce efficient and effective plans as they are the ones who work with them on a regular basis.

The meeting then continued as Bob welcomed Earth Tech and their presentation of Urban Road Reconstruction Challenges by David Hansen and Bob Buerger. They broke down the needs of road reconstruction by the different stages of the project: development, engineering, pre-construction, and construction phases. In developing stages the need for a project must be recognized. The need could include: poor pavement, utility replacement, adjacent development, or a noticed increase traffic flow. Then it must be addressed to the type of route it’s associated with: State, County, or local road. Engineering of a project then must include: defining a point person, coordination utilities, environmental impacts, right-of-ways, and public informational meetings. During the pre-construction phase, details of who will be in charge of certain scopes of the project are laid out. Time frames can be laid out so each entity can work in the project efficiently. The public is also kept up on when and how the project may affect them. Once construction has started regular scheduled meetings are important for information exchange between the contractor, utilities, the public, and the Committees/Board.

After a brief break, the meeting continued with Brian Akason from Energenes presenting on Upgrading Lift Station Controls. Brian started targeting the basics of control panel functions. He then moved into the measurement of levels and flows, describing the works of different methods available including transducers, ultrasonic measurement, pressure relays, and radar measurement. When upgrades are being considered, the operators need to communicate with the engineers and suppliers to allow the most effective results in process upgrades. Communications were another crucial area that many wastewater facilities are enhancing for more effective and detailed process control. There are so many new and developing technologies that location of potential upgrades and also where information needs to be sent and received are important for individual communities. Brian then provided a handout referring to an actual project. This allowed everyone to see an example of how the specifications and scope of a project are laid out by an engineering firm.

Continuing on, Joe Behlen, regional WDNR basin engineer, provided details on new happenings with the DNR. He announced the addition of Todd Kittel to the Wisconsin Rapids office. E-CMAR’s would be accessible shortly through the DNR switchboard. Communities with acute Ammonia limits may get some relief if they request to have a pH/Ammonia table put in their permit. Phosphorus limits are getting closer in permits; more to come in the next few months. The DNR also recognized two Regional Labs with the State Lab of the Year award. Congratulations to Mc Cain Foods for small lab of the year, and also Neenah Papers for large lab of the year!

Regional officer, Lyle Lutz, then opened the business meeting. Thanks went out to Bob Kurszewski for hosting the regional meeting and gaining access to the school commons and auditorium. Also thanks to all of our speakers and the vendors that setup displays. The treasurer’s report was presented and accepted. The region has locations for many of the upcoming meetings; the next in Crandon at Northern Lakes Service, Inc. on August 21, but any community that has interest in hosting a future meeting can contact any steering committee member for information.
Looking for more nominations for operator of the year award and applications can be found at the WWOA website or contact a steering committee member.

Anyone who is interested in being on the operator competition team held at the annual conference, or interested in being on the steering committee can contact a regional officer. Last year the North Central Team, “Certifiable Operators” took first place. Congratulations went out to Ken Bloom, Chris Helgestad, and Lyle Lutz who received the award.

Lutz welcomed state Director Randy Thater who highlighted upcoming statewide events, awards, applications, and membership/benefits.

A great lunch was catered by Bob’s Catering. After lunch the meeting continued with a presentation from Bernie Hengels of Great Lakes Underground. He covered many different types of equipment, their specs and uses. Also he pointed out how important that regular inspections be made on sewer cleaning equipment. If any repairs are needed on the equipment, it is also critical to fix and maintain with properly matched replacement parts. This is especially true with Jetting equipment and the forces that the hoses and fittings must endure. Pictures of various common wear items were shown and also how to correctly replace or repair worn or broken items. Along with his presentation, Bernie was also fortunate to have a demo vacuum truck on site and welcomed the attendees to take a look at it outside during the day. He also extended his invitation to communities for scheduled demonstrations of their services.

The last presentation of the day was on security systems by Harvey Churkey of H&S Protection Systems, Inc. He provided information on various types of electronic monitoring devices used in securing and tracking activity in critical control facilities. Teamed with Bosch Security Systems out of Minneapolis, their equipment ranges from Closed Circuit TV (CCTV), fire protection devices, to access control systems. Technology has helped security evolve not only in affordability but also in the size of the overall system. With the CCTV they have integrated Digital Video Recorders and computer access options to help make monitoring more operator-friendly. Harvey also gave examples of various locations they have supplied equipment and services for. In some examples, he showed how installations have helped in safety situations.

Submitted by Lyle Lutz
Sanitary Sewer Overflows
By Julia Riley, Wastewater Specialist, & Tom Gilbert, Wastewater Engineer, P.E.
Department of Natural Resources

Right to Know Legislation for SSOs
The House of Representatives passed the “Sewage Overflow Community Right-to-Know Act”, H.R. 2452 on June 23, 2008. This act requires that the owner or operator of a treatment works notify the public of sanitary sewer overflows (SSOs).

The public must be notified within 24 hours after the time the SSO is detected if the wastewater has the potential to affect human health. Public health authorities and others must be notified immediately after the SSO has been detected if the wastewater may imminently and substantially endanger human health, such as possible contamination of a public water supply. Some Wisconsin Pollutant Discharge Elimination System (WPDES) permits already require permittees to report SSOs to local water supply operators.

H.R. 2452 defines wastewater backups into buildings that are caused by blockages or flow conditions in a sanitary sewer as SSO an incident subject to reporting requirements.

The Act excludes from its SSO definition discharges from municipal combined sewers and wastewater backups into buildings caused by a blockage or malfunction of a building lateral that is privately owned. The United States Environmental Protection Agency (EPA) has one year after enactment to develop and issue regulations implementing the act. For an update on the status of the legislation see: http://thomas.loc.gov/

Record Number of SSOs in June 2008
167 communities in Wisconsin reported SSO events to the WDNR after the substantial flooding that occurred in June 2008. Excluding wastewater from combined sewer overflows (CSOs) in Milwaukee, approximately 105 million gallons of sewage was released.

Public Health Concerns & SSOs
Children are more susceptible to developing illnesses from direct contact with sewage. One Richland Center child reportedly developed life-threatening kidney disease
from an E. coli infection he developed after playing in contaminated floodwater.

The Division of Public Health issued numerous press releases to local health departments advising them to alert residents to the danger of contact with contaminated waters. H.R. 2425 will require wastewater treatment owners to notify the public and health officials of SSOs.

**Infiltration/Inflow and SSOs**
The rainfall events of June 2008 have raised concerns about whether sewage treatment systems are being maintained adequately to prevent inflow and infiltration (I/I) of water from precipitation. In 2005, the American Society of Civil Engineer estimated $3.33 billion was needed for wastewater infrastructure improvement. As the average age of sewage collection systems continues to increase, a larger investment is needed for repair and rehabilitation work to remove I/I.

The eCMAR program was developed to assess performance, operation, and maintenance of wastewater treatment systems. Each SSO occurrence generates 10 points in the eCMAR. CMAR reports for 2008 will have more facilities receiving points for SSOs. It is never too early to start planning for addressing strategies to reduce I/I in the collection system!

Another concern is whether new sewage treatment systems are being designed to withstand the increasing frequency and intensity of rainfall events and other global climate changes. Design standards may need to be reconsidered for higher berms surrounding treatment plants. The flooding of 2008 has increased the need for planning now to prevent problems next year!

**CMOM Program Guidance Grant**
The primary goal of a Capacity, Management, Operation, and Maintenance (CMOM) program is to prevent SSOs and basement backups with preventive maintenance. The DNR received a grant from EPA to develop guidance for CMOM programs for small collection systems. CMOM collection system training sessions will be held statewide in early 2009 with print and web site guidance materials. More information on the training sessions will appear in the December 2008 issue of *The Clarifier*.

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**Wastewater & Sludge Analyses**
- Low-Level Mercury by EPA1631E
- Drinking Water IOCs/SOCs/VOCs
- EPA-approved for all DW UCMR2 Analyses

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WWOA SED Spring Meeting  
Delafield, WI - May 28, 2008

The spring meeting for the Southeast District region was held at Weissgerber’s Seven Seas restaurant on beautiful Lake Nagawicka in Hartland, WI, with the Delafield/Hartland Water Pollution Control Facility serving as the meeting host. Chairman Tim Zimmerman called the meeting to order with close to 100 people in attendance. Tim thanked Bob Hyde and his Delafield/Hartland facility staff for hosting the meeting and afternoon plant tour.

A warm welcome and opening remarks were given by Delafield/Hartland Commission Chairman Richard Landwehr, who gave a brief history on the Delafield/Hartland Sewerage District and how the district came to be. Richard also spoke on the original plant construction and about the most recent plant upgrades.

The first speaker of the day was Bernie Hengels from Great Lakes Underground Equipment Co. Bernie gave a presentation that was on BEST PRACTICES: Use, Care and Repair of High-Pressure Sewer Cleaning Hose. The presentation touched on the background of the sewer cleaning hose advisory bodies and how they have helped the industry in setting guidelines for identification of product and testing standards of the product. With the advisory body, all manufacturers have agreed to use standard outer jacket colors to signify the pressure rating of the hose and to use unique inner tube color to identify the manufacturer. Bernie also went into great detail in showing several common signs of hose failure to be aware of, what precautions to take to help avoid failure, and how to properly make repairs.

Chairman Zimmerman called for a scheduled morning break. Attendees were encouraged to visit the vendor display areas where 16 vendors participated. A very special “THANKS” to all the vendors that displayed at this meeting and made donations for the raffle that took place during the course of the day.

Tom Steinbach, Operations Manager for the City of Oconomowoc Wastewater Utility, was the second speaker of the day. Tom gave a presentation entitled “Concrete Coatings Projects at the Wastewater Treatment Facility. The City began investigating coating products in 1995 as the plant was approaching its 20 year design life and still had 35% capacity remaining. Concrete structures were showing their age and plant staff recognized the need to address this to preserve the long term integrity of the plant and avoid costly repairs in the future. While addressing some of the more significant concrete degradation by short term repairs, several areas were used as test sites where various coatings were applied. These test sites were monitored for seven years before a full scale project was begun in 2005 using a two part, aromatic polyurea coating system on the exposed concrete surfaces of the grit chambers, clarifiers, and aeration tanks. The project has been accomplished in phases over a three year period to minimize operational challenges. The last major phase of the project will be completed in 2009 with the coating of the chlorine contact chambers and the post aeration basins.
Chairman Zimmerman called the business meeting to order at 11:30. Jim Fratrick of the WDNR presented the department update. Jim touched briefly on the NR 149 Laboratory Certification revisions, and gave a short summary on topics of potential interest with the NR 149 changes. Next an overview on CMOM programs for municipal sanitary sewer systems was presented with Jim putting great emphasize on the need to pay attention to our wastewater infrastructure and the need for a strong CMOM program. After announcing upcoming WWOA events, Chairman Zimmerman presented special recognition awards to Jessica Henderson —Outgoing SE Region Secretary, and Bob Hyde and staff from Delafield/Hartland for hosting the meeting.

A most enjoyable lunch was served to meeting attendees by the Weissgerber staff. Following lunch, Chairman Zimmerman introduced the final speakers of the day. Phil Korth, Lead Environmental Engineer from Foth Infrastructure & Environment LLC, and Bob Hyde, Delafield/Hartland General Manager, spoke about the design and start-up of the Temperature Phased Anaerobic Digestion process chosen by the plant to increase the capacity of the existing anaerobic digestion system and produce a class A sludge. Highlights were a 70% VSS destruction and fecal coliforms averaging 14MPN/gr of TS. After dewatering and drying, all sludge is taken at no charge by landscapers, gardeners, and farmers. The resulting process has produced a class A sludge with low odor and minimal cost for disposal. Chairman Zimmerman closed out the meeting with words of thanks for the attendees, the vendors and to all who helped and contributed to making this meeting possible. The meeting was adjourned with everyone invited to the Delafield/Hartland facility for a tour.

Our Summer Meeting, the annual pig roast, is scheduled for August 20, 2008 at the Italian Community Center in Milwaukee, with Milwaukee Metropolitan Sewerage District being our host.

Respectfully Submitted,

David R. Piquett
Vice Chairman - SouthEast District
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