Watertown Wastewater Treatment Facility

40th Annual W.W.O.A. Conference
October 3-6, 2006
Kalahari Resort, Wisconsin Dells

HOST:
Baraboo Wastewater Treatment Facility
President’s Message

Greetings WWOA Members,

As WWOA President and Chair of the Operator Development Committee, I enjoy the opportunity to get around the state and represent our organization.

On February 23, I once again had the distinct pleasure to attend the 2006 Wisconsin School Counselor Association Conference. This annual gathering of school guidance counselors takes place in Stevens Point. This year’s three day conference boasted over 1200 educators registering. Past President Tim Nennig and I manned the WWOA booth last year in our first attempt at this venue to make teachers aware that there are careers in the field of water. It was an eye opening experience then, and it continues to be now.

This year, we improved our folding three-panel display by putting together a Power Point presentation. We set it up on one corner of our table and projected images on one panel of the folding display. The projector rotated through a picture slide show of treatment facilities, equipment, and water professionals in action. I really believe it was effective as people paused to see some of the slide show. I received many positive comments, and answered questions regarding what the slides were all about. Most visitors had no idea what an empty final clarifier looks like or how big they really can be. They commented on how much society in general continues to take the benefits of clean water for granted. Some of them were very enthusiastic about water careers and had some terrific questions. Pamphlets for colleges, training opportunities, and job prospects are assembled into a “career packet” that these interested parties took with them.

I enjoy the opportunity to relate to the public the satisfaction this field can offer to those who choose to make a go of it. Call me a wastewater zealot if you like. But I always found it easy to be enthusiastic about the dedication it takes to be an operator. After all, every day is “Earth Day” at a treatment facility, and what more noble career than being a dedicated steward for water?

Although it is informative, the slide show I put together is in need of some tweaking already. I found it difficult to obtain photos or slides that accurately depict the work and the equipment we use. If you have digital pictures of personnel working with lab equipment, or making repairs, please send them along to me at tkruzick@ci.oshkosh.wi.us. Surfing the web for information and photos that had the resolution needed was difficult. I can use any and all photos you have available.

The WWOA is currently working with the Wisconsin Rural Water Association to develop the most up-to-date career packets possible. Our organizations will share the cost and resources to get this information out to interested parties. Watch for the WWOA booth display at the annual conference or related professional organizations like WRWA, and the CSWEA annual conference. Your input and suggestions are vital, and we actively seek feedback to help promote this profession.

For me the first harbinger of spring is not the sight of a robin hopping across the administration building lawn. It is the sight of the first primary clarifier being drained for annual cleaning and maintenance. See, I told you I was a wastewater zealot.
The City of Watertown, located along the banks of the Rock River on the border between Dodge and Jefferson Counties, has a population of 23,000. Situated approximately halfway between Milwaukee and Madison, the City obtained its charter in 1852, with its first sewer construction dating back to 1895. The first wastewater treatment plant, designed to treat 1.8 mgd, was placed into service in 1933 on an island in the Rock River to address public health concerns and nuisance conditions in the river. The plant was expanded up to a 2.5 mgd capacity in 1955 and further expanded up to 5.2 mgd in 1980. Twenty years later, due to the plant’s age, growth in the City, basement backups in wet weather, and more stringent requirements for discharging to the Rock River, the City hired Applied Technologies, Inc., located in Brookfield, Wisconsin, to prepare a comprehensive Facilities Plan. Completed in 2000, the Facilities Plan recommended that a new treatment plant be constructed on a new 40-acre tract adjacent to the old plant site. The site was chosen for its favorable topography and the fact that it provides the City with space for growth well beyond the 20-year planning window.

Design of the new facilities took place in 2001, with construction commencing in 2002. Numerous workshops were held during design to maximize input from plant staff on facilities layout, equipment selection, and process controls. The design team spent numerous hours analyzing flow monitoring results and interceptor handling capacity to devise a plan that not only let the plant treat all of the water in the sanitary collection system, but also enlarged the interceptor sewer so that it could handle the excess I & I.

Construction of the new facilities was completed in two phases. In the first phase, new liquid treatment facilities were constructed on the new site. After startup of the new plant, the second phase included demolition of the old trickling filter plant and construction of new solids handling facilities. Completed in 2004, the new 5.2 mgd plant includes the following main elements:

- Raw Sewage Pump Station with five 4700 gpm submersible pumps;
- Fine Screens, two units, 13.5 mgd each;
- Grit Removal, two units, 13.5 mgd each;
- Primary Clarifiers, two units, 85’ diameter, 12’ deep;
- Aeration Basins, three units, 700,000 gallons each, including anoxic selectors;
- Final Clarifiers, two units, 90’ diameter, 16’ deep;
- UV disinfection, two medium pressure banks, 27 mgd peak capacity;
• Administration/Laboratory Building, 7200 square feet;
• Maintenance Building, 12,000 square feet;
• Anaerobic Digesters, 600,000 gallons primary, 350,000 gallons secondary;
• Sludge Dewatering Centrifuges, two units, 1500 lbs/hour each;
• Sludge Cake Storage, 2000 cubic yard capacity.

Construction of the new plant was funded by a Clean Water Fund low-interest loan of $23.4 million. Miron Construction Co., Inc., of Neenah, Wisconsin was the project’s prime general contractor.

One of the challenges facing the project early on was the presence of archeological features known to be present on the bluff overlooking the river. Previous work had uncovered human remains thought to be approximately 1000 years old. Consultation with Native American tribal representatives yielded a plan for protection of the burial site during construction. Extensive investigations were performed on the proposed construction site during the design phase and produced no additional archeologically significant finds.

Construction was staged to maintain operation of the old trickling filter plant while the new liquid treatment facilities were built on the adjacent bluff. The new plant was placed into service after a year of construction, which was accelerated by the seeding of the aeration tanks with 100,000 gallons of thickened waste activated sludge from Madison MSD’s Nine Springs Plant. This plant was chosen because it is a single-stage nitrification plant with anaerobic/anoxic zones, similar to the process chosen for Watertown. The plant’s effluent quality was acceptable upon startup, so demolition of the trickling filters commenced the same day that the switchover was made to the new plant. During this same time, plant staff was extremely busy moving into the new plant and learning to run the new processes. The plant has routinely produced excellent effluent quality since startup, with BOD and TSS levels in the single digits and ammonia levels less the 0.5 mg/L.

Several notable features of the plant include:

• The plant is equipped with its own emergency power generator, sized at 2 MW, capable of running the entire plant load if necessary.

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- John Zatopa, Rhinelander WWTP

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Our wide selection of products and technical know-how combine to satisfy your process control needs. We can put together all the right pieces to make sure you get the best results!
The activated sludge plant is operated through true sludge age control, with mixed liquor continuously wasted directly to the primary clarifiers for co-settling.

The new plant site layout will allow for two more complete plant additions in the future.

Phosphorus removal is accomplished through ferric chloride addition at the tail end of the aeration basins.

Aeration is provided through a tapered arrangement of 2100 ceramic diffusers and five 2000 cfm blowers, with automatic DO control.

The plant is interconnected by a SCADA system with redundant PLC and computer operator interfaces.

Centrifuge dewatering produces 25% cake that is transferred via conveyor into the Sludge Storage Building.

The plant received an Associated General Contractors 2005 Build Wisconsin Award for construction excellence.

During a very wet period in the spring of 2004, the plant experienced no bypasses or basement backups. This performance was a marked improvement over the City’s recent history, reflecting the quality of the facility design and the skill of the operations staff.

The City of Watertown Wastewater Treatment Plant is operated under the supervision of Paul Lange, Water Systems Manager, and Kevin Freber, Assistant Water Systems Manager - Wastewater. The plant hosted a WWOA/Southern District Meeting on August 25, 2005, offering tours of the new facilities to interested wastewater professionals.

NR 149 — Laboratory Certification
By Randy Herwig

The DNR website has several excellent sources of information that describe the proposed changes to NR 149. These presentations provide very good insight into where this rule is going. They show exemptions and other changes not listed in the body of the rule itself.

The public hearings and comment process will have closed by the time you read this, but the information provided will help you understand and prepare for the potential impact that this rule revision may have on your plant. There are several presentations that can be viewed as they relate to WWTP or commercial labs.

For all the information go to:
http://www.dnr.state.wi.us/org/es/science/lc/

For information specific to wastewater treatment plants go to: http://www.dnr.state.wi.us/org/es/science/lc/new149/149wwtp.pdf
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THANK YOU! THANK YOU! THANK YOU! THANK YOU! THANK YOU!
Durand hosted our West Central District Meeting at the Masonic Hall in Durand. The meeting was attended by 77 people.

President Gary Newton opened the meeting by introducing Gary Sweeney, the operator in Durand. Gary welcomed all to Durand and invited everyone to tour the wastewater treatment plant to see his plant upgrades.

Gary Newton opened the business meeting. The next meetings will be held in Tomah, May 24, and Boyd, August 8. The meeting in Boyd we are tentatively planning a barbecue for the noon lunch. Gary thanked Tim Stockman from Cedar Corp. for supplying rolls and coffee, and John Grace from Durable Controls for the soda. Kay Marshall mentioned to be sure to get signed up for the annual conference at the Kalahari in the Dells; the dates are Oct. 3-6. Kay also mentioned the scholarships that are available.

Kay Marshall — Short Elliot Hendrickson was the first speaker and her topic was Diseases in Wastewater. Kay gave a history of diseases found in various wastewater areas and what most plants take out. She talked about how diseases are caught and the importance of bacteria in a wastewater plant. She then discussed the viruses that can be caught in our field.

Hank Zwart — Minnesota Pipe & Equipment introduced Mark Newton from American Meter Company. Mark’s talk centered around the Electro Magnetic Meter and its applications and warranties. He showed slides of the different applications that are used for his meters. He talked about how accurate his meters are and the importance of proper installation. He touched on calibrations, which have to be done once a year.

Joe Gadbois — Hawkins Chemical/Chemical Pumps and Maintenance brought in some chemical pumps. He went over the operations of the pumps and explained how they work and how to perform maintenance on them when needed. Joe showed slides showing a chemical feed system and discussed some reasons he has found as to why some plants had trouble with pumping.

Pete Skorseth — DNR said that the eCMARs should be ready April 15 and that some changes had been made and some training will be available. He told us that collection systems would now also have to send in eCMARs. Training dates are March 2 in Eau Claire and April 14 in Madison, plus we can check on the DNR website for other training dates and updates.

Lynn Reckin — Safe-Fast/Gas Detectors & Equipment Maintenance talked about various gas detectors and their calibrations and maintenance. He discussed replacement of sensors and their life expectancy. He also showed various models of meters.

Tim Stockman — Cedar Corp. discussed the plant upgrade in Durand and showed some slides of the
upgrades. Tim and Gary explained how Durand picked out the equipment and actually purchased the equipment and by doing that saved around 15% of the total cost of the project. The cost savings for Durand came to $281,621. They shared some concerns they had and how they worked around them. Gary invited all to the plant for a tour, and the meeting was then adjourned.

Submitted by: Dennis Holtz

2006 Management Seminar
August 10, 2006
Comfort Inn, Madison

Tentative program includes presentations on:

- Information Management/Electronic Data Storage
- Implementing Security Improvements
- Contractor Bankruptcy During Construction
- Wisconsin’s Changing Workforce
- Ethics in Public Agencies
- Taxpayer Rights (TABOR)/Revenue Limits
- Stump the Lawyer with James Korum

2006 Clarifier Deadlines

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—Sun Prairie Water Pollution Control Facility Staff
Sun Prairie, Wisconsin

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THE 19th ANNUAL COLLECTION SYSTEM SEMINAR

WHEN: Thursday, June 8, 2006
WHERE: Turner Hall, Watertown, WI
MORNING: Speakers on Collection System Issues
AFTERNOON: Vendor Displays, Door Prizes
FEATURED TOPICS:
  - Sewer Televising Survey
  - Fond du Lac Sewer Televising Program
  - Sewer Televising Documentation
  - SSO/CMOM Program Examples
  - Industrial Pretreatment
  - Safety
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“Serving the Water & Wastewater Industry for Over 60 Years”
Our first meeting of the year was held at the Darlington C.C. Attendance was great given the winter conditions. 70 people were in attendance. Of that 68 were members, 2 were non-members and 8 were vendors!

The meeting got under way with a greeting from the City of Darlington Mayor, Dave Breunig. Dave gave a warm introduction and encouraged everyone to make a return trip and enjoy all the area has to offer.

The first speaker of the day was Joe Cantwell from Wisconsin Focus on Energy. Joe started off with the basics and stressed the importance of actually reviewing your electric bill and understanding it. Only 5% in our business even see their bill! Joe stated that aeration systems are the leading source of energy use reductions and generally speaking, plants will see a 30% cost savings with implemented programs. Other areas touched on were peak charge reductions and the involvement of Focus on Energy at the planning stages of projects vs. the tail end. Operators should not only look to this group for cost sharing benefits but also to their energy provider programs as well!

The second speaker of the day was Dale Marsh of Ayers and Associates. Dale’s presentation related to surfactants and their possible effects on a wastewater facility. Surfactants effectively reduce the surface tension of water. Though foaming is typically associated with the presence of surfactants, Dale
explained that you can have the surfactants w/out the foam due to the increased use of defoaming agents in todays cleaners. Another indicator of surfactants would be “sliding BOD” results. Surfactants reduce the transfer efficiencies of oxygen which therefore cause aeration demands to go up. Dale warned to keep an eye on carwash businesses as a new source of surfactants in your community. Dale stated the best way to combat surfactants once in the system is to aerate at elevated levels, but watch your ammonia!

The following speaker was the WWOA President-elect Kay Marshall of SEH. Kay had the hard task of explaining the upcoming changes possible in wastewater labs with the revisions to NR149. Kay reviewed the history of NR149 as well as the reason for this current rewrite. Many specifics were discussed. Kay encouraged all in attendance to look into NR149 at their facility and attend the upcoming public hearings scheduled. Kay explained how similar language and changes in Minnesota has dramatically lowered the number of smaller labs. Kay did pass out copies of her presentation for members to review and reference. One of the issues that were discussed was the Initial Demonstration of Capabilities (IDC) area of NR149.

Following the business meeting everyone sampled the good food prepared by Ken and his staff at the Darlington C.C.

Lastly, Bradd Simms, fisheries biologist for WDNR, talked about fisheries and water quality in Southwestern WI. Bradd brought with him several nice pictures that made the presentation even more interesting. Bradd wanted to drive home the point of just getting out and enjoying the great resources available in this part of the state! He gave examples of fish travel patterns and restoration projects in the local rivers and how management changes accordingly. Bradd is obviously genuinely interested in all aspects of Southwestern WI fisheries and it showed in his presentation!

Bob Salmi, City of Darlington, accepted an award for hosting the meeting prior to a tour of the Darlington wastewater facility.
National Incident Management System (NIMS) and Incident Command System (ICS) Training Requirements

How should a community organize itself to respond in an emergency?

National Incident Management System (NIMS)

The NIMS program is a comprehensive approach to local emergency response operations through the use of the Incident Command System (ICS). Homeland Security Presidential Directive 5 (HSPD-5), Management of Domestic Incidents, requires local jurisdictions to implement the NIMS program to receive federal preparedness funding. Public works employees with a direct role in emergency preparedness are required to take NIMS training.

The NIMS program covers these areas:

- Command and management strategies:
  - ICS structure of emergency response
  - Multi-agency coordination
  - Public information systems
- Preparedness through planning, training, and exercises
- Resource management to describe, inventory, mobilize, dispatch, track, and recover resources used during an incident
- Communications and information-sharing management
- Supporting technologies for information and data management
- Ongoing management and maintenance of emergency planning

Incident Command System (ICS)

ICS is a standardized management tool for responding to any emergency and is a key feature of NIMS. It

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can also be used for planned events. ICS contains an expandable structure to effectively identify:

- The chain of command
- Formal and informal communication relationships
- Leadership responsibilities
- Supervisory position titles and roles
- Incident objectives and strategies
- Common terminology
- The assignment and management of personnel and equipment
- Transfer of command procedures

**NIMS and ICS Training Requirements**

Municipalities are required to be fully compliant with the NIMS program requirements by September 30, 2006, as a condition of receiving federal preparedness funding assistance in Fiscal Year 2007 (October 1, 2006 — September 30, 2007).

Public Works/Utility personnel with a direct role in emergency preparedness must complete these two classes:

1. FEMA IS-700: NIMS, An Introduction
2. ICS-100: Introduction to ICS or equivalent

The Federal Emergency Management Agency (FEMA) web site: [http://www.fema.gov/nims/](http://www.fema.gov/nims/), contains over 50 independent study courses on emergency management training. The required NIMS and ICS classes are included in the FEMA online independent study program:

**NIMS Training:**

- The FEMA IS-700 NIMS introductory class is offered on-line at: [http://training.fema.gov/EMIWeb/is/is700.asp](http://training.fema.gov/EMIWeb/is/is700.asp)

**ICS Training:**

- The ICS-100 introductory class is offered on-line at: [http://training.fema.gov/EMIWeb/IS/is100.asp](http://training.fema.gov/EMIWeb/IS/is100.asp)
- A new ICS-100 course specifically for public works employees is also offered at: [http://training.fema.gov/EMIWeb/IS/is100PW.asp](http://training.fema.gov/EMIWeb/IS/is100PW.asp)

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Course materials can be reviewed on-line or printed out. When students have completed the course materials, they can take an on-line test to receive a certificate of achievement. The IS-700 and ICS-100 courses can each be completed with 2-3 hours of study, including taking the test.

**Wisconsin Emergency Management Workshops**

Wisconsin Emergency Management (WEM) offers these more in-depth ICS workshops in a classroom setting:

- ICS-200: Basic ICS for Single Resources and Initial Action Incidents
- ICS-300: Intermediate ICS for Expanding Incidents
- ICS-400: Advanced ICS Command and General Staff — Complex Incidents

Completion of ICS-100 is a prerequisite for the higher level ICS workshops. WEM workshops are free to all participants. Meals are provided for all students in the workshop, and free lodging is available to those traveling 50 miles or more to the workshop location. Check the WEM web site for training times and locations: [http://emergencymanagement.wi.gov/](http://emergencymanagement.wi.gov/).

**Hospital Decontamination Effluent Management Technical Work Group**

The DNR and the Division of Public Health co-sponsored a Hospital Decontamination Effluent Management Technical Work Group to develop the following recommendations for portable hospital decontamination tents:

- Siting of portable decontamination tents
- Effluent containment volume design criteria
- Types of decontamination effluent storage
- Conveyance methods of decontamination effluent

The recommendations of the technical work group are expected to be completed by April 2006. The contact for information on the technical work group’s recommendations is: Julia Riley, 608-264-9244; julia.riley@dnr.state.wi.us.

**NEW: Security Poster**

The National Environmental Services Center (NESC) has a new security poster entitled: “Ten Steps to Maintain Critical Wastewater Services and Protect Public Health in an Emergency.” Display of the poster in prominent areas of your wastewater treatment facility can help remind employees that safety and security are important. The “Ten Steps” are:

1. Make an emergency contact list that includes all essential contacts.
2. Inspect your facilities daily.
3. Make security preparedness everyone’s job.
4. Limit and control access to facilities.
5. Establish relationships with emergency personnel and neighboring facilities.
6. Practice safe chemical handling and usage.
7. Secure your records and maps.
8. Assess threats and identify vulnerabilities.
9. Have an emergency response plan for your wastewater system.
10. Educate staff, elected officials, and community members about how they can protect their wastewater system.

Each step has explanatory bullets with additional information. The poster was developed by a group of national experts under a cooperative agreement between the U.S. Environmental Protection Agency and the National Environmental Training Center for Small Communities.

To view the “Ten Steps” poster see: www.nesc.wvu.edu/netesc/netesc_trresource.htm#poster.
To obtain a free poster (available to the first 15 callers!), contact Julia Riley, (608) 264-9244; julia.riley@dnr.state.wi.us.

### Safety and Security Measures for Front-Desk Personnel Seminar

A one-day seminar on “Safety and Security Measures for Front-Desk Personnel” is being offered in May 2006 at various locations across the state:

- Eau Claire May 9
- Green Bay May 11
- Madison May 22
- Milwaukee May 12
- Wausau May 10

The workshop, offered by National Seminars Training, provides tips on how to recognize and deal with potential troublemakers, handle stressful situations without losing your cool, and master the basics of security. The seminar cost is $199 per person. For more information call 1-800-258-7246; or go to the web site: www.NationalSeminarsTraining.com.

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

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

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---Greg Paul, WWTF Superintendent  
La Crosse, WI

"This system cut the work the staff does here by 75% and everybody has access to the data without any duplication entries and less errors. A user friendly system, too, with very little instruction needed."

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

"We can utilize our employees' time much better and save substantial money on maintenance with the alarms and doing things when we should instead of waiting for something to go bad."

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

"It's a big money saver. You can take a tour of our system any time from a laptop."

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

"They are fantastic; very easy to work with. The system has saved us money. It's a very user friendly system. They're flexible and very responsive. I would certainly recommend them and their system."

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

---IntelliSys Information Systems

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The year’s first meeting for the SE WWOA Region was hosted by Walworth County Metropolitan Sewerage District (WalCoMet) at The Lake Lawn Resort in Delevan, Wisconsin. For those that missed it, you missed a great meeting. WalCoMet and the SE Region officers put together a quality meeting with good speakers and topics. I was happy to see members ask questions of each speaker when their presentation was done. I have been at many meetings where the speaker is applauded and the attendees just wait for the next speaker?

The MC for the meeting was Ron Altman from WalCoMet. Nice job Ron. Breakfast was first on the list with a nice buffet served. The meeting opened up with the opening address from Gary Gagnon on the history of WalCoMet and where it is headed in the future. It seems they will be busy in the next few years. The first speaker to hit the podium was Kris Bagadia from UNIK Associates. Talk to Kris if you need help with computerized maintenance for your plant or factory. He gave a straightforward presentation on what you should expect from your maintenance program and the tasks it should perform for you. I could see heads nodding in agreement several times and not from dozing off.

Then it was time to let people stretch their legs and take their first break. As they left the meeting room, they were able to check our roster of vendors. We are very grateful to the vendors who helped make this meeting a great success. There were 20 vendors with a wide range of products to check out and get information.

The third speaker, Troy Larsen from Strand and Associates, gave a presentation about interfacing SCADA with operations and what it can do for you. For those that do not have a good SCADA system, this gave them a look at what to expect if they make the leap at applying one of these to their plant.
Our business meeting was next with the usual items on the agenda and the introduction of the new officers. This year’s officers are: Chair Bruce Rabe, Vice Chair Jim Bergles, Secretary Jessie Swan and Treasurer Jeff Deitsch. Let us see if they can help make the next meeting as good as their first! Our May meeting is moved to Port Washington and plans are now underway for this meeting. The business meeting was adjourned and we were all served a great plated lunch by Lake Lawn Lodge.

Heading into the home stretch our last speaker was Bill Kortens from P.J. Kortens. His specialty is utility automation. He presented ideas and options on how you can automate your plant and the different hardware and software that is available. Following Bill was the plant tour and the attendees had a short drive over to the WalCoMet facility. Their plant SCADA system looked great and included their many lift stations.

Thanks again to all the vendors and sponsors that helped make this meeting a success. WalCoMet recommended a wonderful facility that handled the large amount of attendees and vendors who attended. This May I hope to see another 100 plus registrants for our next meeting.

Thank you from the SE Region WWOA officers Bruce, Jim, Jessie and Jeff.

**WWOA Conference Schedule**

<table>
<thead>
<tr>
<th>Year</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>2006</td>
<td>October 3 - 6</td>
<td>Kalahari Resort, Wisconsin Dells, WI</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2007</td>
<td>October 22 - 25</td>
<td>La Crosse Civic Center &amp; Radisson Hotel, La Crosse, WI</td>
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**AQUASTORE TANKS** are versatile and cost-effective for waste water treatment storage and can be designed to meet AISC standards. Single-use applications range from storm water runoff storage, equalization and trickling filters to sludge digestion and sludge storage/mixing. Suitable for total system applications, Aquastore tanks are used in Sequential Batch Reactor (SBR) systems, package treatment plants, anaerobic sludge digestion systems and conventional large volume treatment.
It’s that time of year to get your disinfection system ready for the many bacteria that will try and escape from your treatment plant to receiving waters. Here are some suggestions to ensure that you are ready to thwart their escape, especially for those of you that are required to disinfect on a seasonal basis only.

We’ve described below some start up and maintenance procedures for liquid chemical feed systems (generally Sodium Hypochlorite and Sodium Bisulfite Dechlorination) then for gas systems (generally Chlorine and Sulfur Dioxide). If you have a mixture (gas chlorine with liquid bisulfite, for example) you’ll have to do both. After that are a few suggestions for Ultraviolet disinfection systems. This start up and maintenance should be done two to three weeks before May 1, or whatever other date your permit may specify. Don’t wait until the last minute! Leave enough time to order replacement parts or to arrange for a service technician to visit your plant if needed.

Spring Start Up of Liquid Chemical Feed systems.

1. Order your sodium hypochlorite and sodium bisulfite supplies.
2. Clean and remove sludge in your chlorine contact tank.
3. Perform maintenance on your chemical metering pumps.
   a. Clean the metering pump head and suction and discharge check valves.
   b. Replace the diaphragm, check valve seats and check valve balls (if needed).
   c. Replace suction and discharge tubing.
   d. Clean the Injection check valve and replace the check valves seat and balls.
4. If you have a chemical storage tank, clean the tank of any old chemical or sediment.
5. Check your scale and clear any debris from under the scale base.

Spring Start Up of Gaseous Chemical Feed systems.

1. Order your chlorine gas and sulfur dioxide supplies.
2. Clean and remove sludge in your chlorine contact tank.
3. Clean all strainers or filters on the chlorine and sulfur dioxide solution lines.

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**THWARTING BACTERIAL ESCAPE PLANS**

By: Dave Sasada, Hawkins Chemical
Rich Knoelke, Mulcahy/Shaw Water
Jack Saltes, DNR

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The Clarifier
Volume 165, April 2006

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Email: info@mulcahyshaw.com

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4. Clean chlorine and sulfur dioxide ejectors — replace any o-rings or gaskets as required.
5. Start up booster pump or pressurized water lines supplying water to the ejectors. Make sure the ejector is producing vacuum.
6. If your applications systems are flow proportional;
   a. Turn the electrical power ON (if the electrical power had been OFF).
   b. Start up the water flow through the ejector. With the ejector producing vacuum, connect the vacuum tubing from the ejector to your flow control valve.
   c. Increase and decrease your dosage pod, make sure that when you increase the dosage pod the gas flow indicator float in your rotameter also increases, and when you decrease the gas flow indicator float decreases.
7. Connect your vacuum regulator on to your chlorine cylinder, open the chlorine cylinder valve and then close the valve. Check your vacuum regulator vent connection with 29% aqua ammonia to check if you vacuum regulator is venting. If white smoke appears at the vent connection, the inlets capsule of your vacuum regulator should be repaired.
8. Connect your vacuum regulator on to your sulfur dioxide cylinder, open the sulfur dioxide cylinder valve and then close the valve. Check your vacuum regulator vent connection with bleach to check if you vacuum regulator is venting. If white smoke appears at the vent connection, the inlets capsule of your vacuum regulator should be repaired.
9. Check your chlorine and sulfur dioxide cylinder scales. Clean any debris from under the scale bases.

**Spring Start Up of a UV System**

1. Check the age of your equipment, especially the lamps. Most UV lamps will still illuminate past their effective “end of lamp life” based on UV intensity. If your current set of lamps has over 12,000 to 15,000 hours of operation, you may want to look into ordering a new set so you are ready if you have issues during the disinfection season.

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2. Do a visual inspection of your lamps and electrical equipment. Look for any broken lamps or sleeves as well as check the condition of o-rings and seals. Seals can become brittle over time. A 59 cent o-ring can save you a lot of headaches down the road.

3. Clean the quartz sleeves. Be sure to check with the UV manufacturer to insure you are using the correct cleaning solutions. Some solutions contain agents which may reduce the amount of UV light that can pass through the sleeves.

4. Check to see that all of the lamps are operating once the lamps are in the channel. Be sure to follow all of the manufacturer’s safety precautions before putting power to the system. Most UV systems have indicators that show whether or not the lamps are working.

5. If more than one lamp is out on a module, you may have a bad ballast or other electrical problems. Typical ballasts operate two lamps on a module. If you have two lamps next to each other that are not working, try swapping with a working lamp to see if the ballast may be the problem.

6. Refer to the manufacturer’s O&M manual and follow all of their start up procedures and safety requirements. Most suppliers have service technicians that can start up your system if you don’t want to do it yourself.

Okay, you are now ready to foil the best bacterial escape plans. Remember, most of you cannot allow for any bacterial escape plan to exceed a monthly average of 400 colonies/100 ml. To ensure fecal coliforms escapees remain below 400 colonies per 100 ml, be sure to monitor your disinfection process throughout the disinfection season and keep your disinfection channels clean. Proper chlorine dosages or UV intensities may need to be adjusted if effluent suspended solids or other pollutants increase and interfere with the disinfection process. The better your plant is running and the clearer your effluent is, the most effective your disinfection will be. Good process control of upstream processes keeps disinfection performance high and bacterial count low.

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AND NOW HUDSON!
The winter meeting of the North Central Region of WWOA was held on Tuesday, January 31, 2006. The meeting took place at the Blue Top Supper Club in Stevens Point, WI. The meeting was hosted by the Stevens Point Wastewater Treatment Plant. Jeremy Cramer, Stevens Point WWTP, organized the meeting. There were 91 people in attendance.

Cramer called the meeting to order about 8:20 a.m. and introduced Stevens Point Mayor Gary Wescott, who welcomed attendees to Stevens Point. Kim Halverson, Director of Water and Sewage for the City, spoke briefly about the staff at the wastewater treatment plant and some of the projects completed at the plant and the water utility.

Gary Wesselschmidt, Huber Technologies, offered the first presentation of the day with a discussion of optimizing headworks equipment. Wesselschmidt reviewed various available screening and grit removal equipment types and design considerations.

Casey Whittier, US Filter, followed with a presentation on the relatively new “Cannibal” process. Whittier explained the theory of the process, the advantages, including minimal solids production, and the equipment and tankage required by the process.

Attendees enjoyed coffee and rolls provided by Peterson & Matz, and juice and soda provided by Strand and Associates during the break. They also had the opportunity to browse among displays of vendors, including: Peterson & Matz, Energenecis, William Reid, LTD, Durable Controls, L.W. Allen, B & M Technical Service, Inc., L & S Electric Inc., PROCORP Inc., Davy Engineering, North Central Laboratories, and Crane Engineering.

Joe Behlen, DNR-Wisconsin Rapids, gave a short update from the DNR. Behlen discussed upcoming cCMAR's
Behlen announced that the Village of Amherst won the 2005 Lab of the Year Award for the Small Registered Category and congratulated Operator Lyle Lutz on the achievement.

Ken Bloom called the business meeting to order. Bloom led the group in a round of applause for Jeremy Cramer and the Stevens Point Wastewater Plant staff for their fine work hosting the meeting. The minutes of the September regional meeting were accepted as printed in the December Clarifier. The treasurer’s report was read and accepted. Bloom read excerpts from the Regional Officers meeting at the October Annual Conference.

Bloom reminded all that the 2006 WWOA Annual Conference is being held at the Kalahari Resort in Wisconsin Dells, October 3-6. Bloom pleaded for operators to take part in the Operator Competition Team this year. The North Central Region has not fielded a team for the past two years, even though several individuals are interested. The region needs one or two more volunteers to step forward to complete the team.

Bloom recognized Dan Dvorak, Village of Edgar, as the recipient of the 2005 North Central Region Operator of the Year. Congratulations Dan!

Bloom reminded all that the nominations are being taken for the 2006 Operator of the Year. He also reminded attendees that two steering committee seats are up for election in 2006 and nominations for anyone interested in serving on the steering committee will be taken this summer.

The Region has the spring meeting scheduled for Antigo and the fall meeting scheduled for Milladore. Bloom called for volunteers to host upcoming meetings next year. He also took a few minutes to point out the benefits of becoming a member of the WWOA.

Bloom introduced Randy Thater, WWOA State Director. Thater reviewed upcoming events, requested nominations for the statewide WWOA awards, encouraged participation in the Operators Competition, and reminded everyone about the Scholarship and Tuition Reimbursement programs.

Bloom thanked Thater for his comments and for his attendance at the meeting. Bloom reported that he had been contacted about setting up eCMAR training sessions and a BOD workshop this spring. Information will be distributed as it becomes available.

Bloom adjourned the business meeting prior to lunch.

A panel discussion on septage issues took place after lunch. The panel consisted of Ray Schmidt, Portage County Planning and Zoning Department; Jim Kleinschmidt, Strand Associates; Jim Friedrich, DNR; Ed Trzebiatowski, Trebco Septic; and Rich Boden, Plover Wastewater Utility. Each panelist gave a 10 — 20 minute presentation on the issue from their perspective. The presentations were followed by a question and answer period. The program concluded about 2:30 p.m., with tours of the Stevens Point Wastewater Treatment Plant following the meeting.

Submitted by Rich Boden, NCR Secretary.
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President Tom Kruzick called the meeting to order at 1:04 PM Thursday, December 1, 2005. All Board members were present except Dave Carlson who was excused absent.

Also present on Thursday afternoon was Gil Hantzsch, Chairperson of Local Arrangements for the 2006 Annual Conference.

The minutes of the October 3 and October 4, 2005 Board meeting were reviewed. President Kruzick asked for any Board member comments regarding the minutes as presented. Marshall made a motion to approve the minutes as presented. Tomaro seconded the motion. Motion carried.

McKee presented the Financial Statement for Board review and approval. McKee reported that as of November 15, 2005, the WWOA had $98,703.22 in revenues and $67,394.64 in expenditures with excess revenues over expenditures totaling $31,308.58. Bond made a motion to approve the Financial Statement as presented. Bartel seconded the motion. Motion carried.

McKee presented the vouchers for Board review and approval. After a brief discussion and some voucher clarifications, Marshall made a motion to approve the vouchers as presented. Thater seconded the motion. Motion carried.

**COMMITTEE REPORTS**

**NOMINATIONS** - Nennig informed the Board that two of our current Board of Director positions will be up for election in 2006. In addition, the positions of WWOA Vice-President and President-Elect are also up for election and will require nomination and vote from the membership.

**PROMOTIONAL ITEMS** - President Kruzick reported for Dave Carlson, Chairperson of Promotions. The promotional sales at the Annual Conference totaled $1,509.50. Discounting the older inventory was successful in a reduction to our inventory.

Carlson will contact a couple of local companies that can provide us an Apparel Program without the need for the WWOA to have an inventory. Orders can be directed to the Promotional Committee Chairperson who would forward the order to the company selected for the order to be filled.

At the next WWOA Board meeting Carlson will report to the Board on logo costs and proposed programs.

**MEMBERSHIP** - McKee reported the WWOA currently has a total of 1,946 members. McKee provided the Board with a list of members in the arrears.

President Kruzick directed McKee to send a list of members in the arrears to each of the Regions.

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SCHOLARSHIP - Tomaro informed the Board he will include in his letter to the Regions, the criteria for the WWOA Scholarship.

EXECUTIVE COMMITTEE - No report.

CLARIFIER - No report.

CAREER DEVELOPMENT - Marshall commented she contacted David Spurling of the WDNR magazine and discussed publishing the article about Wastewater Treatment Plant Operators.

President Kruzick and Marshall will be attending the Career Conference in Stevens Point in February of 2006.

Marshall stated the Committee is always looking for new ideas to promote the wastewater treatment field.

AWARDS - No report.

OPERATOR TRAINING - President Kruzick reported for Dave Carlson, Chairperson of Operator Training. Carlson has discussed with Jack Saltes from the WDNR regarding assisting in coordination of eCMAR training for the newly permitted sanitary districts that haven’t been exposed to the eCMAR process.

Carlson is also planning for 2006 another seminar on Sampling and Flow Monitoring for Wastewater Treatment Operators.

DIRECTORY - No report.

PUBLICITY - Bond informed the Board a new draft of the press release was developed this year. Eleven press releases were sent to the designated newspapers for print in November.

REGIONAL COORDINATOR - No report.

GOVERNMENT AFFAIRS - Thater stated the Government Affairs planning committee met on
October 20, 2005 at the offices of Strand Associates in Madison. Pete Conine and Thater attended representing WWOA.

Thater provided the Board with a tentative agenda of the 2006 Government Affairs Seminar agenda to be held on February 23 at the Madison Marriott West.

**BIOSOLIDS SYMPOSIUM** - Bond stated the Biosolids Symposium is scheduled for March 21, 2006 at the Country Springs Inn in Stevens Point. The Committee chair is Greg Kester from the WDNR. The UW Extension office will be doing the mailing for the Biosolids Symposium.

**LIAISON** - Thater reported the CSWEA Wisconsin Section Annual Business meeting was held November 8, 2005 at the Holiday Inn in Fond du Lac.

The Collection System Seminar reports attendance of 219, up from 188 in 2004. Jim Beir is committee chair and Todd Stellmacher is vice-chair. The 2006 seminar is scheduled for June 8 in Watertown.

Pete Conine will serve as chair for the 2006 Management Seminar scheduled for August 10.

Operation reports for the 2005 WEFTEC Operators Challenge participants include Wade Barkstrom-Brookfield, Jeff Smudde-Green Bay MSD, and Mike Gelhar-Oshkosh.

Thater commented the award winners announced at WEFTEC 2005 included several WWOA members. Dan Lynch of Janesville and Jay Kemp of Earth Tech were awarded the George J. Schroepfer Medal for demonstrating excellence in conceiving and directing the Janesville WWTP upgrade. Bill Marten of Donohue & Associates and Dennis Dineen of United Water with four others were awarded the George Bradley Gascoine Medal as authors of the article “Double Take” in the August issue of WE&T.

The next CSWEA Wisconsin Section meeting is the Winter Board meeting scheduled for February 22, 2006 at the Madison Marriott West.

**WEB SITE** - Bartel informed the Board the web site has been updated with the 2006 Annual Conference information. A slide show of photos from the 2005 Annual Conference has been put on the web site.

Bartel discussed with the Board the idea of making some updates to the web site giving it a fresher look. Scott would be willing to add features to the web site that would make things quicker and easier to do through the web site. One example of this would be for the membership to have the capabilities to update their membership information through the web site. Another idea that Scott has is to put the membership directory on the web site and allow members to update their information.

Bartel asked for some direction from the Board regarding updating the web site. A discussion pursued. The Board directed the Web site Committee to meet and return to the Board with some proposals.

**TECHNICAL PROGRAM** - Thalke stated the official Call for Papers has been posted on the web site and sent to the CLARIFIER for publishing in the December 2005. The members should be receiving their mailing in the near future.
The Technical Committee meeting will be held on Thursday, February 9, 2006, from 9:00 AM until 3:00 PM at the Kalahari Resort & Convention Center. The deadline for submittals for the Call for Papers is January 6, 2006.

McKee discussed with the Board some problems that occurred involving our power point projectors and computers. McKee suggested to the Board purchasing a new lap top for the WWOA office. We would then have three lap tops for the three power point projectors.

McKee suggested that about 10 days before the Conference all the presenters send their presentations to him so they could be preloaded on the three lap tops.

After a brief discussion, Marshall made a motion to direct McKee to purchase a new lap top for the WWOA office. Thalke seconded the motion. Motion carried.

EXHIBIT COMMITTEE - No report.

OPERATORS COMPETITION - Bartel provided the Board with a list of all the team members and the results of the 2005 Operators Competition.

Bartel thanked all the sponsors, judges, and participants. A special thanks goes out to Jim Thalke and John Bond for organizing the competition.

Bartel discussed with the Board some ideas to encourage more interest and involvement from the members regarding the Operators Competition. One thought was to decrease the numbers of team members to three instead of four to make it easier for Regions to form a team.

The Board discussed the idea of a drawing for a door prize for the members competing in the Operators Competition. The Board directed Bartel to present this idea to the Regions and report back to the Board so a decision can be made.

LOCAL ARRANGEMENTS - Gil Hantzsch informed the Board Kelly Zimmer will again be helping with Local Arrangements. Eugene Doro from

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the Baraboo WWTP has agreed to host the tours for 2006 Conference. Kelly Zimmer has volunteered to chair the spouse/guest program and the golf outing.

PERMANENT ARRANGEMENTS - McKee reported for John Leonhard, Chairperson of Permanent Arrangements. Leonhard and McKee visited the new Holiday Inn Hotel and Convention Center in Stevens Point. McKee provided the Board with copies of the floor plan of the new Hotel and Convention Center Stevens Point. They have our 2007 Conference dates available. The Holiday Inn complex will have 193 rooms now and 60 additional rooms by January 2007. Within a quarter mile of the Convention Center there are three other hotels and the Holiday Inn will provide a shuttle to the other hotels. We feel this property will provide the WWOA an additional site in the middle of the state.

McKee asked for some direction from the Board in regards to starting negotiations with the Holiday Inn in Stevens Point for the 2009 Conference. A discussion ensued. The Board directed the Permanent Arrangements Committee to contact the new Holiday Inn and Convention Center in Stevens Point to start negotiations.

PERMANENT PROGRAM - No report.

RESOLUTIONS AND BYLAWS - No report.

HISTORICAL - McKee informed the Board the Historical Committee will be meeting on December 9, 2005 at Green Bay MSD.

MANUFACTURERS AND CONSULTANTS - President Kruzick reported for Jim Shaw, Chairperson of Manufacturers and Consultants Committee. We had no complaints or comments of any significance. Overall the conference was as usual “first rate.”

Shaw thanked the Board members, Richard and Carol McKee and the many volunteers for their time and involvement.

Nennig made a motion to approve the Committee Reports as presented. Bartel seconded the motion. Motion carried.
OLD BUSINESS

PREAMBLE TO CHANGES IN THE WWOA SCHOLARSHIP AWARD PROGRAM - A draft copy of the criteria for the Scholarship Award was provided to the Board for their review and consideration. After a discussion, it was the consensus of the Board some changes in wording need to be inserted into the scholarship award criteria.

President Kruzick directed McKee to include the WWOA Scholarship Award Criteria on the March Board meeting agenda to review the official changes.

MAIL LIST POLICY - President Kruzick provided the Board with copies of the Mail List Policy for their review. After a discussion and some changes were made to the policy, President Kruzick directed McKee to include the Mail List Policy on the March Board meeting agenda to be reviewed.

NEW BUSINESS

EXECUTIVE SECRETARY SALARY - The Board went into closed session to discuss the Executive salary. The Board agreed to increase the Executive Secretary salary $500.00 in September 1, 2006 and $500.00 in September 1, 2007.

McKee thanked the Board for the increase in salary and accepted his two year contract.

There being no further business of the Board, Bartel made a motion to adjourn the meeting. Bond seconded the motion. Motion carried.

The Board meeting adjourned at 10:50 AM on Friday December 2, 2005.

Respectfully submitted,
Richard D. McKee, WWOA

Finding Innovative Solutions to Design Challenges faced by Our Clients since 1909...

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## 2006 Spring Workshop Timeline

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 8:30 a.m.</td>
<td>Registration</td>
</tr>
<tr>
<td>8:30 - 9:15 a.m.</td>
<td>Controlling Moisture for Quality and Profitability with Janet Raddatz — Sargento Foods, Inc.</td>
</tr>
<tr>
<td>9:25 - 10:20 a.m.</td>
<td>Determining Precision and Accuracy of Test Results with Debra Cherney — Cherney Microbiological Services</td>
</tr>
<tr>
<td>10:20 - 10:35 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>10:35 - 11:20 a.m.</td>
<td>Variables Affecting Accuracy of Moisture Tests with Dr. Marty Ondrus — UW Stout</td>
</tr>
<tr>
<td>11:30 - 12:15 p.m.</td>
<td>Selecting the Best Method &amp; Equipment for Your Products with Dr. Robert Bradley — UW Madison, Dept. of Food Science</td>
</tr>
<tr>
<td>12:15 - 1:00 p.m.</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 - 1:30 p.m.</td>
<td>Vacuum and Mechanical Oven Methods with Dr. Robert Bradley</td>
</tr>
<tr>
<td>1:40 - 2:10 p.m.</td>
<td>Karl Fischer Method with Jim Wittenberger — Foremost Farms USA</td>
</tr>
<tr>
<td>2:15 - 2:45 p.m.</td>
<td>Microwave Oven Method with Tony Bickel — CEM Corp.</td>
</tr>
<tr>
<td>2:55 - 3:25 p.m.</td>
<td>Moisture Balance Method — Ohaus Scale Corp.</td>
</tr>
<tr>
<td>3:35 - 4:10 p.m.</td>
<td>Near Infrared with Vern Spaulding — ESE Corp.</td>
</tr>
<tr>
<td>4:15 - 4:30 p.m.</td>
<td>Concluding Comments</td>
</tr>
</tbody>
</table>


For detail directions and map go to: [www.radisson.com/madisonwi](http://www.radisson.com/madisonwi)

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### Wastewater

- Sewer Planning/ Models & Design
- Pump Station Design
- I/I, SSES Analysis
- CSO & SS0
- Facility Plans
- Biosolids Management
- Construction Services
- Regulatory Compliance
- Funding Assistance
- Treatment Facilities
- Electrical/Mechanical

[Clark Dietz Engineers](http://www.clark-dietz.com)

Kenosha - Spring Green - Indianapolis - Evansville - Chicago - Champaign
23rd Annual Wastewater Operators Conference  
Set for June 4-7, 2006

Wastewater treatment professionals from the United States and Canada will meet June 4 through June 7, 2006, at the Swissotel in Chicago for the 23rd Annual National Operators Training Conference. The conference focuses on improving wastewater treatment plant operation overall, and offers a broad menu of sessions detailing more intensive looks at special areas of operation.

The program kicks off on Sunday, June 4, with sessions on wastewater sector security training, and workshops on wastewater microbiology and process control, and on using Clarifier software for process control.

Keynote speaker on Monday, June 5, will be Glen T. Daigger, Ph.D., discussing “Future Challenges to the Wastewater Profession and the Role of Operations in Addressing Them.” A senior vice president and chief technology officer for CH2M HILL where he has been employed for 23 years, Dr. Daigger is a former professor and chair of the Environmental Systems Engineering Department at Clemson University, and is a widely published author.

Suzanne Malec, deputy commission, will discuss the Greening of the City of Chicago following Dr. Daigger’s keynote address. A broad program of breakout technical sessions are planned for Monday afternoon and all of Tuesday. During those meetings, specialists will focus on lagoon management and the use of barley straw to improve lagoon performance; nutrient management and handling and processing BNR sludges.

Wednesday’s agenda includes more breakout sections addressing operational control, activated sludge issues, and a variety of technology issues. General sessions resume Tuesday afternoon and continue through Wednesday morning, climaxing with a closing ceremony about noon.

The lighter side of the conference will include poster sessions and a tee shirt auction during the conference, and an optional dinner cruise aboard the recently refurbished Lake Michigan cruise ship Odyssey. After sessions end, there will be a choice of two Chicago post conference tours—a Chicago Water Tower walking tour, and a “Process Control In-Control” treatment plant tour.

Another optional tour scheduled for June 8 will take delegates to Aqua Aerobics in Rockford, Ill., for a manufacturer’s plant tour. Information and conference registration forms are available at www.NOTC2006.info.
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