Neenah-Menasha Sewerage Commission Wastewater Treatment Facilities, Menasha, Wisconsin

46th Annual W.W.O.A. Conference
October 9-12, 2012
Kalahari Resort, Wisconsin Dells
Host: Bluffview Sanitary District and Badger Army Ammunition Plant
Inside This Issue…

- President’s Message / Page 3
- NMSC modifications / Page 6
- Lake Michigan meeting minutes / Page 16
- North Central meeting minutes / Page 19
- Jack Salmes career reflections / Page 20
- Remembering Nancy Mann / Page 22
- The Ops Competition needs you / Page 22
- Smart phone article #2 / Page 23
- WWOA Board positions available / Page 24
- In memorium: Eugene Genz / Page 25
- Microbiology training session / Page 28
- Management Matters: Lipstick on a pig / Page 29
- Exhibitor info for 2012 conference / Page 30
- SCADA and new IT technology / Page 33
- Jim Krueger remembered / Page 34
- WWOA scholarships available / Page 34
- Northwoods Collection seminar / Page 35
- WWOA Board meeting minutes / Page 36

The Clarifier is the publication of the Wisconsin Wastewater Operators’ Association and is intended to inform and educate the membership on issues related to the treatment and control of wastewater. The Clarifier is produced five (5) times each year: February, April, June, September, and December. All members are encouraged to contribute to the mission of the Clarifier.

The Wisconsin Wastewater Operators’ Association is a non-profit organization dedicated to educating, informing, and advancing the wastewater profession. WWOA has approximately 2,000 members divided throughout six regions: Southeast, Southern, Lake Michigan, North Central, Northwest, and West Central.

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Have you even seen something or read something that put your mind off on a train of thought? No? Well maybe that is just me! Noodling around on the internet one lunch time an item caught my eye. It was on Wikipedia, that estimable source of surely accurate information. In the ‘Did you know’ section for 4/3/2012, ‘… that because of his escape from captivity in 1188 through a sewer, the medieval monk and future Abbot of Evesham Roger Norreis was nicknamed “Roger Cloacarius” or “Roger the Drain-Cleaner”? It seems that ol’ Rog got caught up in a dispute between a group of monks and the Archbishop of Canterbury who had tried to appoint Roger to an important post over the monks’ objection. The monks held Roger in custody but told others he was sick. At this point Roger made his daring escape.

This got me to thinking about all the old movies and TV shows I’ve seen over the years. You know, the ones with the hero chasing the villain though the large metropolitan sewer system. Generally these are though large brick lined passages with huge underground rooms. The good guy, usually dressed in a nice suit of clothes, gets his man without getting a bit mussed. Except for the one I saw a few years ago, where the meticulous, germophobic detective with OCD got a face-full of a nice slurry of brown water from a 12 or more incher that had no flow one second and a pipe full as soon as he stepped in front of it!

This was right around the time we did our refresher on the city confined space policy. So my mind moved on to the thought that of course in none of those shows was there any thought of safe entry, no four gas monitor, no safety harness and rescue line, no SCBA escape pack.

I’m writing this having just returned from my first road trip of the spring meeting round. It was a nice easy sub-two hour drive up US 41 to the Village of Winneconne. Only a slight detour around the massive US 45 exit ramp project, and still got there before the welcome from the village president.

Even got a diet cola to feed my caffeine addiction and a muffin top before settling in for the morning session. Alas, I recently started a diet, so rather than fall off the wagon too badly, I saved the rest of the muffin for the break. Still probably blew my snack budget for the next week!

The meeting was at the Fin and Feather, locate right on the banks of the Wolf River. Our meeting room had a super view out over the river. At least a dozen people were fishing off the bridge and another group in boats anchored just upstream. That made it a challenge to keep one’s mind on the proceedings, but the hosts strategically set up to face away from the river to see the screen, then positioned the vendors so their displays helped screen the view.

Great job by Jeff Smudde, Aaron Patefield, and Bernie Hengels of Lake Michigan region and the Winneconne staff. Talks were about VFD basics, construction management tips, habitat changes on the area lakes, and an expanded DNR update from Jack Saltes that included information on the coming changes to the operator certification program and tips for filling out this year’s CMAR.

We even had an extra unplanned bit of excitement. Following an excellent lunch (despite having to pass on the fried chicken, the pot roast, and the mashed potatoes and gravy - drat that diet!) a number of us went out on the deck over the river to enjoy the view and the wonderful weather. I noticed a large plume of black smoke billowing up a few hundred feet down stream. Some unfortunate soul had his fishing boat catch on fire. He made his way to a pier and jumped off. Only a moment later, the boat was fully engulfed in flames. My picture that accompanies this article was taken on the deck shortly after that. I thought about suggesting a caption to the effect of your president hard at work. Photography credit to Scott Thompson from GBMSD, just one of my many WWOA friends at the meeting that I get to see too little of. Also WWOA past president Jim Thalke from Sussex, just 7 miles north of us but I have to go to a meeting 100 miles away to see him.
continued from page 3

I only had one other meeting to attend on WWOA business since my last message, but that was a biggie. The WWOA board of director’s meeting in late April always focuses on finalizing the conference details. Following that, Technical Committee chair Kevin Freber has been hard at work getting the conference brochure print-ready. Highlights include pre-conference sessions on lab basics and a suite of topics involving SCADA; design, maintenance, and security.

Yours truly will open the conference proper Wednesday morning – if you think these messages are unintelligible, you probably can’t wait for that! Thankfully, in a very short time, I’ll give way to keynote speaker Mike McKinley. The title of his speech is “Working together to get better… You make the Difference”. A full slate of technical sessions will again include a significant dose of Phosphorus talks. If you are P’ed out, there will be plenty of other interesting topics. Blending, collection systems, process control, and biosolids are just a few of the sessions on the schedule.

One item of big news is the return of the Operators Competition. As you are well aware if you have been reading my previous messages, the OC was dropped last year due to lack of team commitments. We needed a minimum of three teams to commit by the April board meeting to justify bringing it back. Thankfully, we did reach that minimum. Many thanks to Lake Michigan (two teams!) and North Central for stepping up to the plate. Now having gotten to that point, I would like to challenge the other four regions. We would love to see at least two more teams sign on.

The organizers, judges, and supporting vendors put a lot of work into preparing for the events and the more participants we have, the more they feel their efforts were worthwhile. Of course this means Jeff Bratz will have to refocus his attention to setting this event up.

Jeff is the board member in charge of this year’s competition. Jeff is a veteran of OC participation, not only at past WWOA conferences, but also at WEF competitions. If Jeff calls asking for your help, please consider pitching in. Hopefully this will lead to many more years of successful competitions.

Jeff has been hard at work at his other assignment, which is spearheading the web committee. As I have mentioned before, Jeff and new webmaster Steve Meifert have been working on streamlining and troubleshooting the conference

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The Neenah-Menasha Sewerage Commission (NMSC) was formed as a 66.0301 commission (formally 66.30) in the early 1980's to provide an interceptor sewer system and wastewater treatment facilities to serve the following municipalities:

- City of Neenah
- City of Menasha
- Town of Menasha Utility District (East)
- Waverly Sanitary District
- Town of Neenah Sanitary District #2

There is also one contracted industrial user.

A regional interceptor to serve the Town of Menasha (East) and portions of the City of Menasha was constructed in 1986. The wastewater treatment facilities, which had only served the cities of Neenah and Menasha, were upgraded in 1986 to serve as a regional facility. The plant was designed for an average flow of 13 mgd and for average monthly biochemical oxygen demand (BOD) and total suspended solids (TSS) of 17,955 lbs./day and 15,800 lbs./day, respectively. The secondary treatment system was expanded in 2000 to accommodate increased loadings.

FACILITIES PLANNING

A majority of the unit processes and control systems at the treatment facility have been in service for 26 years. Age, environmental conditions and continued use have taken a toll on equipment, processes and controls throughout the facilities. Rather than taking a piece meal approach to upgrades, and sacrificing cost savings and construction related synergy, the NMSC authorized that a wastewater facilities plan be undertaken to estimate future flows and loadings to the year 2030. Biosolids management issues, as they related to the need for a new biosolids storage facility due to the notice of termination from the current hauler, were to be incorporated in the planning document. The facilities plan has been completed and approved by the Department of Natural Resources (DNR) and the modifications project is moving forward.

The plant is located in the city of Menasha. The site is already congested, and there is little room for new facilities. Additionally, there are existing homes surrounding the site. Developing a plan that meets the future goals of the NMSC is an on-going challenge.

Facility Needs

During the facilities planning process, four categories of needs were identified as follows:

- Capacity
- Plant condition
- Permit requirements
- Biosolids management

Capacity

The current flows and loadings to the plant were documented and analyzed during the facility planning process. Development and population growth information was obtained from east central regional planning commission and industrial customers were contacted to gather information about their future plans regarding wastewater discharges. With no significant change in flows and loadings projected by industrial customers, and projected future flows and loadings for the service area being near or below current plant design values, the existing design criteria for flows and BOD loadings were used for facility planning purposes. The review of historical plant loading data showed that the average suspended solids (SS) loadings exceeded the design average value 58% of the time. Therefore, there is a need to increase the SS treatment capacity of the plant, and the downstream effect on the solids processing train would also require evaluation.

Plant Condition

Since the last major upgrade at the plant in 1986, the NMSC has been proactive relative to plant needs, regulatory and technology upgrades, and maintenance. Most equipment has exceeded its expected life expectancy or has been

continued on page 8
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recently replaced. A walk-through was conducted with engineers and plant operations staff to identify shortcomings throughout the plant. In addition to specific process system needs, there were many plant-wide needs identified including:

- Heating, ventilation and temperature control systems
- Flow metering
- Supervisory Control & Data Acquisition (SCADA), control system upgrades
- Separate temperature control in electrical rooms
- Hose reel replacement
- Flood switches in lower levels of structures
- Gas detection equipment
- Upgrade building sump pumping systems
- Lighting system upgrades
- Electrical gear upgrades

Permit Requirements
The current WPDES permit expires December 31, 2013. At that time, it is anticipated that the effluent discharge limits for phosphorus will be reduced via a compliance schedule. The proposed change for NMSC, which discharges to the Fox River, is likely to drop from 1.0 mg/l to 0.2 mg/l. The current upgrades to the treatment works include a design concept for incorporating facilities for phosphorus removal at a later date.

The impact of NR 217 and the total maximum daily load (TMDL) on the lower Fox River will also reduce TSS discharges. As most TSS discharges are attributable to agriculture and urban sources, there are no anticipated permit changes relative to TSS or BOD.

Biosolids Management
During the facilities planning process, a number of needs associated with the digesters and biosolids processing systems were identified. Options for biosolids disposal also require evaluation because the current hauler contract for removal, storage and disposal of biosolids expired on October 31, 2011. At this time, the biosolids are being landfilled, and NMSC continues to investigate cost effective, long-term solutions.

Future Conditions
To evaluate and size facilities for a wastewater management system, future population, wastewater flows and pollutant loadings must be estimated for the service area. Wastewater flows and loadings are a function of sewered population, per capita water use, commercial and industrial discharges, public authority flows and infiltration/inflow (I/I).

The current and proposed design parameters are listed on Table #1.

| Table #1 Wastewater Treatment Facilities |
| PROPOSED UNIT PROCESS DESIGN CRITERIA |
| NEENAH-MENASHA SEWERAGE COMMISSION |
| DESIGN YEAR | Current Design | Proposed Design |
| POPULATION | 57,858 / Year 2005 | 73,953 |
| FLOW (mgd) | | |
| Average Annual Flow | 13 | 13 |
| Max 24-Hour Flow | 43 | 43 |
| Peak Hour Flow | 65 | 65 |
| Max 7-Day Flow | 35.5 | 35.5 |
| Max 30-Day | 20 | 20 |
| BOD (lbs./day) | | |
| Average Daily | 24,573 | 24,573 |
| Maximum Daily | 46,689 (1.9:1) | 46,689 (1.9:1) |
| Maximum 7-Day | 36,860 (1.5:1) | 36,860 (1.5:1) |
| Maximum 30-Day | 29,321 | 29,321 |
| SS (lbs./day) | | |
| Average Daily | 18,564 | 21,952 |
| Maximum Day | 37,128 (2:1) | 43,904 |
| Maximum 7-Day | 27,846 (1.5:1) | 32,928 |
| Maximum 30-Day | 24,117 (1.3:1) | 28,538 |
| P (lbs./day) | | |
| Average Daily | 320 | 320 |
| Maximum Daily | 640 (2:1) | 640 (2:1) |
| Maximum 30-Day | 384 (1.2:1) | 384 (1.2:1) |
| TKN (lbs./day) | | |
| Average Daily | 2,664 | 2,664 |
| Maximum Daily | 3,996 | 3,996 |
| Maximum 7-Day | 3,197 | 3,197 |
| Maximum 30-Day | 2,930 | 2,930 |

[continued on page 10]
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Recommended Facilities Modifications
The recommended plan, described in the December 2010 facilities plan and approved by the DNR, includes improving/upgrading the existing unit processes, continued Infiltration/Inflow (I/I) reduction programs in the member communities, increasing biosolids digestion throughput, and utilizing centrifuges for biosolids dewatering with 180-days of off-site storage provided near the land application sites. The recommended plan includes:

Plant-Wide
Flow meters will be added/replaced on all process lines that provide useful data for plant operations. SCADA and control systems will be provided to allow reliable and efficient operation of unit processes and equipment. A GIS web-based work order management and records/maintenance system will be provided to maintain equipment and document changes. Heating, ventilating and temperature control systems will be upgraded to provide reliable, energy efficient operation. Gas monitoring equipment will be provided in areas where the potential exists for a hazardous atmosphere. Energy efficient lighting will be provided, as well as new grit pumps and a grit washer. Manually operated electrical actuators will be added to existing stop gates for control of flows within the channels.

Primary Clarifiers
New clarifier drives will be provided, along with new scum collection equipment. The sludge pumps will be equipped with new check valves and air systems/piping.

Aeration System
New membrane diffusers and piping, air valves, and energy efficient blowers with automatic dissolved oxygen (D.O.) control will be provided for each train. Repairs and modifications to the existing blower buildings are also required.

Final Clarifiers
The drive for Clarifier #4 will be upgraded to match the three other clarifiers. New scum pumping systems and return activated sludge (RAS) piping will be provided. Humidity control will be improved in the pump room and tunnel.

Digesters
New instrumentation, thickened sludge pumps, secondary transfer pumps, automated valves, heat exchanger flushing, secondary digester mixers, and digester gas drying/siloxane removal will be provided. The existing boiler/heat exchangers will be replaced, and the capacity of the existing heat exchangers increased. Sludge pumping systems will be upgraded for better reliability and control.
continued from page 10

Service Building
The belt filter presses (BFP) and conveyor will be replaced with centrifuges and a new conveyor system. A new off-site Biosolids Storage Facility will be constructed to provide 180-days of storage.

Disinfection
A new hypochlorite generator will be provided, along with flow pacing of the bisulfite feed system.

IMPLEMENTATION
The NMSC is now proceeding with the equipment procurement and wastewater treatment facilities modifications, as approved in the facility plan.

To obtain the facility equipment that would effectively meet the needs of the plant and operations staff, the NMSC decided to proceed with equipment procurement bidding in advance of the final design and bidding of the modifications project.

Prior to bid opening, the equipment had to be prequalified. Bids were obtained on 18 separate equipment procurement contracts in the Fall of 2011. This allowed plant operations staff and engineers to evaluate the equipment that would be provided, and to identify the specific equipment that would be supplied. The plans and bidding documents for the modifications project, to be bid as a general construction project, are being prepared based on the actual equipment accepted.

A comparative evaluation of the equipment bids was conducted by plant operations staff and engineers. This provided a selection process that allows NMSC to determine which piece of equipment provides the best overall value to the commission, while meeting the specified performance requirements. The details of the comparative evaluation process were described in the bidding documents. The bids were scored on the following criteria:

- Capital cost
- Ease of operation & maintenance
- Location & quality of service
- Performance
- Scope of supply
- Estimated 20-year life cycle cost
- Materials/quality of construction
- Manufacturing certifications

continued on page 12
Following the completion of the evaluation, engineers and plant operations staff recommended to the NMSC specific equipment. Contracts were issued to the successful equipment manufacturers/vendors (bidders). The next step was to process the shop drawings for each equipment item. That process has now been completed, and the final facilities modification plans and specifications are being prepared for bidding. It is anticipated that bids will be opened during the summer of 2012. Construction is expected to begin in the Fall of 2012 and continue for approximately one year.

ADDITIONAL ITEMS
Equipment Replacement
During the time when the facility plan was being reviewed and the equipment procurement specifications were being prepared, it became obvious that some equipment would need to be replaced sooner rather than later. The NMSC decided to move forward with replacement of the on-site hypochlorite generation facilities and rehabilitation of the screw pumps.

The existing on-site hypochlorite generation facilities had reached the end of their useful life in the summer of 2011. The system could only produce 0.4% solution in lieu of the needed 0.8% solution. The facility plan recommendations included the replacement of the generator. DNR approval was obtained to move forward with replacement of the generator. Quotes were obtained for generators and a new generator was purchased directly by the NMSC. The new generator is capable of generating 1,200 pounds per day (ppd). The generator was installed by NMSC plant operations staff.

The screw pumps were in need of repair or replacement when the facilities planning process was started. It was decided to rehabilitate the four 96-inch diameter influent screw pumps. Each screw pump was rebuilt and recoated, which saved an estimated $1.0 million, as compared to new screw pumps or a new pump station.

Work Order Management System
The NMSC, as part of its daily plant operations, initiated development of a GIS system to manage work orders and asset information in a spatial database. The pending plant modifications project provides an excellent opportunity to gather important asset information and populate the GIS system with pertinent information. The GIS system, called WORMS (Work Order Management System) will provide operators access to critical asset information throughout the
plant. The GIS system is a web-based system, built on top of ESRI’s ArcServer technologies, allowing operators access anywhere they have an intranet connection available. The system operates as a login-based system, with permissions granted at the user level.

The users at the administrator level can perform three primary tasks: create assets/work orders, view assets/work orders, and search assets/work orders. The users at the operator level only view work orders assigned to them by the administrator. The interactive mapping (GIS) component automatically links all work orders and assets to the physical location in the plant. The users are able to zoom to the physical location of the active work order and view other work orders/assets that are in close proximity. They can then identify on that particular asset and view any relevant information on that asset. From here, they will also be able to view operation & maintenance (O&M) manuals, shop drawings, asset photographs or videos that have been linked to the asset. The WORMS provides not only a maintenance work order system, but it incorporates a full blown operations manual as well.

*continued from page 12*

When the Beaver Dam Upgrade and Bioenergy Project is complete, Kraft Food’s high-strength cheese waste will be pumped to the Beaver Dam WWTF, where it will produce biogas and generate revenue.

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*continued on page 14*
continued from page 13

PROJECT FINANCING
The opinion of probable cost for the wastewater treatment facilities modification project is $25 million. The NMSC intends to obtain long-term financing through the Clean Water (CWF) Fund loan program. The CWF loan will also cover the cost of the hypochlorite generation facilities and the screw pump rehabilitation.

The NMSC had to obtain interim financing to cover project costs incurred prior to obtaining the CWF loan. This financing includes unique challenges because the NMSC is not a municipality and cannot obtain CWF financing.

Each of the member communities will be required to sell bonds to the State, and the financing will be managed by the NMSC. A high level of cooperation will be required.

An implementation grant has been obtained from Focus on Energy for the blowers and the fine pore aeration system.

It is possible that other financial incentives may also be obtained from the Focus on Energy program.

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Kewaunee hosts February Lake Michigan WWOA meeting

The kick off meeting for 2012 was hosted by the City of Kewaunee on February 16 and held at C.J.’s Restaurant. We ended up with a total of 93 attendees, including 13 at the door.

Following registration and a coffee & donut for most, Chairman Jeff Smudde started the meeting by introducing City of Kewaunee Mayor John Blaha and Pete Kolaszewski of Ayres Associates. The Mayor welcomed us to the City and Pete gave us an overview of what we were going to see later in the day at the plant tour.

The first speaker was Ken Kozak of Wisconsin Public Energy. Ken is an electrical engineer and certified energy manager and power qualified specialist working with many large customers. Ken presented the topic Electric Energy, Rates and Options.

The next speaker was Joe Cantwell of Wisconsin Focus on Energy who presented a two-part program on Energy Management for Wastewater Systems and Aeration Basics and Energy Saving Opportunities.

Our mid-morning break was sponsored by Ayres Associates.

Immediately after the morning break, Chairman Smudde called to order the Business Meeting. The previous meetings continued on page 17.

Joe Cantwell, WI Focus on Energy

Ken Kozak, WI Public Energy

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In the last 10 years, Ahern has completed more than 665 wastewater treatment plant projects in Wisconsin, ranging from $100 to more than $20 million.

You was extended to both CJ’s Restaurant and to Kewaunee for hosting the meeting.

Next up was DNR representative Erin Hanson with her report. Each member was given a simple form asking for 2 new speaker topic ideas that they would like to see. The forms were to be turned in prior to lunch. Further a member had indicated that geocaching was going on near the TP and folks should be aware of it in case it happens near their plant.

An introduction of your LMD officers was made and discussions of upcoming WWOA events and opportunities including the Operators Competition.

At the conclusion of the business meeting, Chairman Smudde presented Past Chairman August with a plaque thanking him for his service and Secretary/Treasurer Hengels presented Past Chairman August with a paddle, as we all know that Kris is an avid fisherman.

The business meeting was concluded with a vote to adjourn made by Steve Simon and seconded by John Schoen.

continued on page 18
Following the business meeting was Joe Cantwell and his second of two presentations for the day. We then moved into lunch which was served family style with broasted chicken and BBQ ribs as the main courses.

The first meeting after lunch was from Greg Paul of QLF and his topic was, “What Makes a Bio-P System Tic?” Greg has worked in the wastewater industry since 1978 starting as an operator at Greeley Colorado’s wastewater treatment plant.

In 1980 Greg returned to his hometown of LaCrosse and worked for 31 years in a variety of jobs including operator, lab tech, chemist, special project supervisor and superintendent.

Since the 1990s Greg has been involved in the study and operation of BNR systems.

Dennis Grulkowski of Kewaunee and Pete Kolaszewski of Ayres Associates then made a presentation on the plant changes and gave directions to the plant for the concluding tour.

Our next meeting will be May 10 in Winneconne.

See you all there.

Respectively submitted,
Bernie Hengels
Secretary and Treasurer WWOA / LMD

Wisconsin Wastewater Operators’ Association
46th Annual Conference
October 9 through 12
Kalahari Resort
Wisconsin Dells, WI
The spring meeting of the North Central Region of the WWOA was held on May 3, 2012. The Village of Almond hosted the meeting at the American Legion Hall. There were 48 attendees and 2 vendor displays. Village Trustee Brian Roehborn greeted those in attendance and welcomed them to Almond. Dan Folan, Village of Almond, also welcomed the attendees and thanked them for coming to the meeting. He also recognized the vendors that had displays. Folan introduced Wesly Bubb, Henkel Technologies. Mr. Bubb gave an informative presentation on the features, benefits, and applications of various Locktite products. He also provided literature on the products.

The next speakers were Gary Wolfe, Applied Technologies, and Bill Sepka, Timkin Corporation. Mr Sepka detailed several new pillow block bearing styles and new types of power transmission couplers. He and Mr. Wolfe explained proper sizing and selection and ran through a short bearing maintenance presentation.

After the break, Craig Bongard, Fergusen Water Supply, explained how underground locators work, common problem and troubleshooting procedures. He explained locator limitations and tips on how to use a locator more effectively.

Dave Valentine, network Safety Consultants, Inc, gave a detailed presentation on confined space and on traffic work zone safety. He described the hazards, the causes of the hazards and strategies and countermeasures to prevent accident or injury.

Terry Vanden Heuvel called the business meeting to order at 11:40 am.
1. He thanked Dan Folan and the Village of Almond for hosting the meeting. He thanked the speakers. He thanked the vendors for their support and recognized Henkel Technologies for providing the donuts for the morning break.
3. Boden called for any questions, comments, or corrections to Plover meeting minutes from February. There were no comments or corrections; the minutes were accepted as printed.
4. Ken Bloom read the Treasurer’s report.
5. Several upcoming events were announced.
6. A volunteer is needed as host for spring meeting.
7. The Region has one Operator Competition team and is seeking members for a second team.
8. Vanden Heuvel outlined the benefits of WWOA membership and encouraged nonmembers to sign up.
9. He encouraged nominations for Operator of the Year and stated the deadline for nominations is July 1.
10. WWOA Director Kelly Zimmer was introduced. She noted that there will be three open director positions at the fall election. She encouraged attendees to consider making nominations for any of the regional or statewide awards. Nomination forms are on the website. She encouraged members to take advantage of the scholarship and tuition reimbursement programs.
12. There was no new business. The business meeting was adjourned.

Lunch was served, followed by a raffle of donated items. Lunch was prepared by Almond Auxiliary Post 339. Jack Saltes, DNR, announced that 2011 CMAR forms are posted on the DNR website and discussed common errors and tips continued on page 20
for filling it out. He also presented the latest information on the proposed operator certification changes.

Ed Makaryk, Village of Plainfield, and Brad Stuczynski, MSA, gave a brief presentation on the design features and operation of the rather unique Plainfield Treatment Facility. The lagoon system discharge is used for irrigation on land leased to a local farmer. Everyone was invited to tour the facility after the meeting.

Fred Hegeman, DNR Residual Coordinator, gave a presentation on the change to a web-based reporting format for biosolids reporting forms. He showed several examples of the forms and the interface. The forms should be ready for general use soon.

Eric Donaldson, DNR, gave a short update. He detailed several personnel changes and showed a list of contacts for various programs. He also discussed the latest information on the phosphorus issue and the permit backlog. Folan closed the meeting and invited attendees to tour the Plainfield Wastewater Treatment Facility.

Submitted by Rich Boden, Secretary, North Central Region

What’s in Jack Saltes and what’s coming out?

First of all, THANK YOU for the 2011 WWOA Service Award. I am very honored and appreciative to have received this award. I received the WWOA Service Award plaque from Kay in April during a visit with her. That week, the week of April 16, 2012, I brought the plaque to my office and stood it up on my desk….and it served to provide just what I needed to make an important career decision.

Coincidently, on May 4, 2012 applications were due for a wastewater field supervisor in DNR’s Southcentral region and future DNR field supervisory positions. What should I do? I always thought if a supervisory field position like this available again in the agency, I would jump on it. Now would finally be the chance to compete for a position to supervise DNR’s wastewater management program in Southern region!

The WWOA service plaque helped a lot in my decision as it stared at me from my desk. I have dedicated my entire career to wastewater operations and treatment plant operators of Wisconsin. 30 years of service to you and your treatment plants. And with just 6-10 years of work left before I retire, there is still so much work left to do for you and the new generation of operators.

I have a few more fingerprints yet to leave. Update all the study guides and exams. Revise NR 114 and help you through the changes in certification. Provide training on developing CMOM Programs. Help mentor all our new staff. Act as an operational consultant for you and others. Continue learning. The list goes on.

My decision to apply for the position was really was a no brainer. It came down to basically three things:

1) where would I be the happiest and have the most fun?
2) where would I continue to learn? and
3) where can I give back to you all that I have learned these past thirty years and also to my colleagues, consultants, other state agencies, EPA, and the public.

As many of you know, I am a rabid bluesman. I love blues music. John Lee Hooker had a famous lyric: *Let that boy boogie-woogie! It's IN him and it GOT to come out!* Well, for me, in my professional life, that “boogie-woogie” is wastewater treatment and everything about it.

continued on page 22
Our pumps do a lot of heavy lifting. They have to. The demands for environmentally friendly solutions to water and wastewater management are getting heavier.

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We understand your needs and the dynamics of your situation. We’ll develop customized solutions and enhanced services that you can’t find anywhere else. With one call, find out why L.W. Allen pumps and Altronex control systems have become the leading provider of pumps, controls, technical assistance and superior customer service. No heavy lifting required.

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Remembering Nancy Mann

Nancy A. Mann of Marinette, WI (nee Timmerman) passed away on April 6, 2012. She was born Feb. 26, 1941, in Milwaukee to Eugene and Geraldine (nee Breske) Timmerman.

She spent her early life in Milwaukee and is a graduate of Mount Mary College. Nancy had been employed by the Village of Dousman as Superintendent of Utilities before moving to Marinette in 1984. Nancy came to Marinette to assume the position of Administrator of Utilities for the City of Marinette Water Department. She became the first woman president of the Wisconsin Wastewater Operator's Conference from 1984 to 1985.

She was the beloved mother of Michael Mann, Jr. (Julie), John Mann (Robin), Michelle Mann and James Robert Mann (Misty); and loving grandmother of Angie, Michael III, Robert, Samantha, Elizabeth, Bobbie, Joey and Alex. Nancy was preceded in death by husband, Michael Mann, Sr.; a son, Christopher, and one brother. Funeral Mass was at Holy Family Parish - Our Lady of Lourdes Church, Marinette. Burial was at Forest Home Cemetery.

There’s a lot of wastewater knowledge in my aging brain and its IN ME and IT GOT TO COME OUT! (while it still can!) . That’s where I’ll be happiest and be able to most fully give back what’s “in me.”

Another blues tune goes, “I like what I like and I know what I know”. I know I am going to stay put to continue to serve you doing what I like.

See you around. Enjoy the summer!

Ops competition needs you!

We currently have two teams from the Lake Michigan District, and one from North Central for the WWOA operator competition at the 2012 conference. We are still looking for more teams to participate in the competition. If you consolidate a team, please contact Jeff Bratz (wrcsd@tds.net.), Operator’s Competition Chairperson with your team information.

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2009 Operator Competition
Smart phones and wastewater applications number 2
By Jim Bergles

Things sure have changed since I wrote the first article on smart phones and wastewater (Clarifier Vol 191). It is a whole new area of employment that they have created. 4g speed is now available for some of us. The operating system is now Android 2.3.4 code named ginger bread. A step forward compared to my 2.1 OS. Multiple new phones and plans have emerged also. My phone is still running fine. I have had to pull the battery a few times with a screen lock up. But how many times have you had to reboot a PC or a PLC due to being froze up?

The phone is still way ahead of them. Those still hanging on to old technology are missing out. Since the last article there have been several times nuisance alarms have called me at unplanned times. But then again who plans for an alarm call? Being able to pull up the SCADA screen, make adjustments, while pushing a cart half full groceries, sure cuts down on the stress. I know some kid was wondering what game it was that I was playing on my phone? The gas and time it has saved me has more than paid for the phone.

I have decided to continue with this column because of the interest and comments I received on the last one. This time it’s not so much about the phone, but about some helpful apps I have found for free. Remember, almost all free apps come with some sort of advertisement (adware). If you like the program and it helps you out, make the purchase to dump the adds. Or use it as is if the adds do not bother you. Always check what the app will change on your phone before you download it. Some go right to your SD card, some do not let the phone sleep, some monitor location, some can actually monitor key strokes (password security risk). If after an app download you notice your battery life getting shorter, you can always uninstall the app you last downloaded. A certain online radio program that came with the phone was draining my battery life after an update. It is now gone.

I have found four apps that I feel are helpful, so far. The first one is called “Radar Now” The reason I like it is because it loads very fast. Half the time of other weather apps I have used. Less to read, but the map is what I am interested in. I can always link to other services if I need more detail.

continued on page 26

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registration and setting up the membership application (both new and renewal). Much progress has been made.

Another highlight of the conference is the Awards Banquet and the entertainment following. This year will feature Dueling Pianos. Somehow I can’t get the scene from ‘Who Framed Roger Rabbit’ with Donald and Daffy Duck out of my head. I doubt if cannon fire will be involved but you never know.

Incidentally, awards banquet does mean we will be giving out awards, if we get nominations for them. Elsewhere in this issue should be an article by Wade Peterson and a nomination form. Otherwise a form and full description of all the awards and criteria is available on the web site.

Please consider nominating a deserving person, we know there are plenty of them out there. The deadline is fast approaching – July 1 to the regional officers for Regional Operator of the Year nominations, and August 1 to Wade Peterson for the rest.

Another deadline approaching is for applications for the WWOA scholarships. These one-time $1,000 awards are available to children and grandchildren of members who are enrolled in a two or four year wastewater related program at an accredited college or university.

They must have already completed at least their first year and have at least one year remaining. Again, full details and application are on the web site. Sharon Thieszen is the scholarship chair.

Hopefully, you won’t be spending any of your time chasing bad guys around your collection system.

Until next time, work safely and let’s be careful out there!
Eugene D. Genz, age 65, of Ixonia, passed away on Monday, May 14, 2012, surrounded by his loving wife and children at Angels Grace Hospice in Oconomowoc, following a courageous battle with cancer. The family would like to thank Oconomowoc Memorial Hospital, Lake Country Health and Rehab and Angels Grace Hospice for the wonderful care Eugene received from them.

Eugene Dale Genz was born on Feb. 24, 1947, in Watertown, the son of Martin and Viola (Kroll) Genz. He was a 1965 graduate of the Watertown High School. Eugene served his country as a member of the United States Army serving in Vietnam. On Jan. 25, 1969, he married the former Dorothy Schmidt at Zion Lutheran Church in Clyman. Eugene was a member of St. Paul’s Lutheran Church in Ixonia and served on numerous boards and committees including the school board, an usher, an elder and a member of the OWLS. Following his retirement he was employed by John Christian Landscaping for 10 years.

Eugene had been employed for 35 years as a mail carrier at the Oconomowoc Post Office. He had also been the secretary and treasurer at the Ixonia Sanitary District No. 1 for 37 years. Eugene was an avid Brewer and Green Bay Packer fan. He enjoyed traveling with his wife. Eugene enjoyed his family and loved spending time with his children and 10 grandchildren.

Survivors include, his wife, Dorothy of Watertown; his children, Dawn (Brian) Liddicoat of Watertown, Becky (Doug) Messmann of Jefferson, Brian (Gretchen) Genz of Ixonia and Kiara (Jeff) Gray of Watertown; 10 grandchildren, Ashley Messmann, Rochelle Gray, Arianna, Liddicoat, Samantha Gray, Claire Liddicoat, Aidyn Messmann, Brandon Genz, Aeryn Messmann, Isaac Gray and Brielle Genz; four sisters, Arletta Lauersdorf of Watertown, Irma Schwartz of Ixonia, Doris Ruckdaschel of Fort Atkinson, and Lucille (Don) Kuehl of Lebanon; eight brothers, Armin (Evelyn) Genz of Watertown, Gordon (Alice) Genz of Lake Mills, Frederick (Janet) Genz of Ixonia, Robert Genz of Watertown, Ward (Karen) Genz of Watertown, Martin Jr. (Christine) Genz of Pipersville, John (Vickie) Genz of Helenville and Neal Genz of Watertown; and numerous nieces, nephews, other relatives and friends.

Eugene was preceded in death by his parents; a brother, Hilbert; a sister, Isabel Kurtz; four brothers-in-law, Donald Kurtz, Richard Schwartz, Rolland Ruckdaschel and Elmer Lauersdorf and his father- and mother-in-law Roland and Esther Schmidt.
The next three apps are math apps. “Statistic Express Lite” is a decent statistical app for doing mean and deviation. Yes, you can do all this with your calculator. But the advantage to this app is it keeps all your data on one screen for review to make sure you have keyed the right numbers in. I think you will like this one.

The next app is called “Solution Lite” Plug in the stock concentration, the final concentration, and then the volume and it will tell you how much to put in. You can change units in this also. The default is metric?

It will calculate molecular weight of a formula also. If a lab tech gives this app a try, please let me know what you think of it. I am not that deep into it here, but I feel this app does have a use in our profession.

The last two apps I will double up on. The first is a good calculator app that makes the phone look like a TI-35 calculator. It is called “RealCalc” Not much else to say on this one. The only issue I can see is could you use it for a DNR operator exam? All phones have to be off.

The last calculator app is called “Algeo Calculator” This is a graphing calculator app. I have set up graphs but have yet to see the data show up like I want it to in the graph. (Lack of operator here.)

The nice part about this app is for calculating daily flow totals for your DMR. That’s if you don’t have them printed from your PC already. Mine are not. It keeps a running total that you can scroll back over to double check your daily totalizer numbers that you have keyed in. I find that very handy.

That’s it for this issue. Oh wait, If you are feeling brave and wanting a challenge, look up Google’s free app inventor for Android. You can write your own app for an Android phone. Maybe one that starts to vibrate if you have sat too long writing an article?

Thank you.
Jim Bergles, Eagle Lake Sewer Utility, eaglelake@tds.net
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Course objective: The objective of this class is to teach the operators, lab personnel and consultants how to optimize the wastewater treatment plant processes using the microscope and knowledge of the microbiology. In this class the wastewater professional will learn how to identify the microorganisms that are favorable to the Activated Sludge treatment process and gain an understanding of how to maintain the proper environment for their growth. The students will also learn to diagnose treatment system problems based on the microbiology of the system. They will be introduced to process control methods and causes and cures for problematic filamentous bacteria.

Course trainer: “Toni” Glymph graduated from Tennessee State University with a Bachelor of Science degree with a double major in Chemistry and Biology and an emphasis on Microbiology. She obtained a Masters in Environmental Microbiology and is a certified wastewater treatment plant operator with more than 15 years of actual hands on wastewater treatment system experience. She has spent more than 22 years conducting microscopic evaluations and troubleshooting wastewater treatment system upsets. She has conducted over 200 Wastewater Microbiology workshops including, Activated Sludge Process Control & Operations, Wastewater Microbiology & Process Control, Filamentous Bacteria Identification & Control, Lagoon Treatment System Microbiology, Algae Identification in Wastewater Treatment Lagoons, Slime Bulking & Foaming, and The Use of Staining in Wastewater Microbiology Process Control.

Participant Instructions
Participants should bring a sample of mixed liquor, (on ice if collected over night). Please do not fill the sample to the top of the container. Leave air space. If possible, participants should bring microscopes and slides.

Meeting Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Registration</td>
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<tr>
<td>9:00-9:10</td>
<td>Introduction</td>
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<tr>
<td>9:10-9:30</td>
<td>Introduction to Microscopy: Use of the microscope, slide preparation, sampling</td>
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<tr>
<td>9:30-9:45</td>
<td>Hands-on activity</td>
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<tr>
<td>9:45-10:15</td>
<td>Bacteria: floc formation, hands-on activity</td>
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<tr>
<td>10:15-10:30</td>
<td>Break</td>
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<tr>
<td>10:30-12:00</td>
<td>Protozoa: identification, counting techniques, hands-on activity</td>
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<tr>
<td>12:00-1:00</td>
<td>Lunch</td>
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<tr>
<td>1:00-1:45</td>
<td>Process Control Tests Using Microscopy: hands-on activity</td>
</tr>
<tr>
<td>1:45-2:00</td>
<td>Break</td>
</tr>
<tr>
<td>2:00-4:00</td>
<td>Filamentous Bacteria: identification, staining techniques</td>
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Registration Form

Name __________________________________________
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Address ________________________________________
City ___________________________________________
State _________   Zip _____________________________

_____  Pre-registered Member $35
_____  Pre-registered Non-Member $40
_____  On-site Member $40
_____  On-site Non-Member $45

Make check payable to: WWOA
Send form and check to: Richard McKee, 24184 Fawn Meadow Lane, Richland Center WI 53581

Questions? Call Lyle Lutz at 715-345-5259 or email LLutz@ploverwi.gov.
Registration is also available at www.wwoa.org

Space is limited to 40 attendees. Don’t delay, sign up today!
Putting lipstick on the pig: Rebranding to facilitate recruitment

Last issue’s column dealing with public relations offered a perfect segue. We need a public relations campaign for the wastewater treatment industry. Why? Because, as we hear so frequently, up to 50% of wastewater operators will be retiring in the next 5 to 7 years. Unfortunately, it has also been documented that fewer young people are entering the industry. Let’s face it, folks, it may be time to put a little lipstick on this pig of ours.

Our industry is in need of re-branding. Not like the infamous Blackwater morphing into the incomprehensible Xe. Or Pepsi’s multi-million dollar boondoggle which merely changed the curvature of its logo. Instead, look at how Old Spice has suddenly time-warped into profitable relevancy. With the help of a former NFL unknown, it has gone from eau du Old Man to prominence on the scentual radar of college-aged kids.

George Carlin, in a serio-comic moment once said, “The caterpillar does all the work but the butterfly gets all the publicity.” There are some parallels here worth noting. The average person on the street maintains a flush-and-forget mentality. Wastewater treatment is viewed as better neither seen nor heard—nor even discussed.

Let’s be honest, when giving a plant tour, how many of you take a measure of delight in conducting a degree of a “shock and awe” presentation of the headworks? Is that really what we want to be the “take away” for the day? We need to draw attention to the end result: clean waters capable of supporting fishing, boating, and other water-based recreation. Further, we remove a huge portion of nutrients that contribute to unsightly and potentially toxic algal blooms.

Let’s get the net and capture Carlin’s metaphoric butterfly—the result of your efforts. We need to re-tool the old “This is your brain on drugs” marketing blitz and transform it into, “This is your river; this is your river without wastewater treatment.” In the early 1970’s the Fox River was so polluted, and DO values were so low, it could barely support a carp population. With the introduction of modern day wastewater treatment processes, however, the Fox River has been restored to the point of being a renowned walleye fishery. That is the butterfly we seek.

We need to open the public eye to the reality that wastewater workers are more realistically described as incredibly dedicated and creative problem-solvers. Recall the 100-year storms and flooding experienced several years back. Wastewater operators across the state had a singular mission: to keep the plant operating, do everything in their power to avoid bypasses, and preserve the water quality of receiving systems. Reedsburg’s wastewater plant was virtually under water and yet those folks had that plant back on-line with treatment in just 15 days! A few years back, past WWOA president John Bond’s outgoing column remarked, “It is unbelievable how ingenious wastewater treatment plant operators can truly be!” He was—is—right.

Public relations begins with the elected leaders of the municipality. We need to ensure that our elected leaders are more in touch with what wastewater treatment entails. Too frequently we hear anecdotes from 20+ year wastewater veterans who have outlasted countless changes.
Attention all potential WWOA exhibitors

The WWOA 46th Annual Conference will be held October 9 - 12, 2012 at the Kalahari Conference Center in Wisconsin Dells. Exhibits are Wednesday, Oct. 10 and Thursday, Oct. 11 only.

There are approximately 115 8' wide x 10' deep exhibit spaces available during the WWOA conference being held at the Kalahari Conference Center in Wisconsin Dells.

Total cost for the exhibit space is $360 for applications received prior to Aug. 15, 2012 for a 8x10' exhibit space. After August 15, the cost is $550. A sponsor fee of $75.00 is included in this cost. This fee includes:

- One member Conference Registration
- Backdrop and side drapery
- Table with Drapery
- One 110-volt outlet
- Sponsor Fee

Everyone staffing the booth must register. Anyone who is not registered will not be allowed in the exhibit hall. In order to save you time and frustration, please be sure to have everyone staffing your booth pre-register.

Because of the amount of exhibit space available this year, we will allow four exhibit spaces per company and five contiguous exhibit spaces for representative firms and their principles. If all space is not sold by Aug. 15, 2012, exhibitors may purchase additional space. Please use line item on the application form to request the extra space.

Please remember the Board of Directors ruled, “Any events sponsored by manufacturers and consultants, such as luncheons, training sessions, hospitality suites, etc. that interfere with the conference (including exhibit hours) will not be allowed.”

The sponsor fee of $75 (included in the exhibit cost) is to be paid only once per firm. It is charged to ALL manufacturers and consultants attending the conference. The sponsor fee is used for:

- Refreshments during exhibit hours
- The walking lunch on Wednesday in the exhibit area.
- The social hour before the banquet.

Exhibit hours are: Wednesday, October 10 10:00 A.M. to 5:00 PM and Thursday, October 11 8:00 A.M. to 11:45 A.M. Exhibits may be set up Tuesday afternoon after 4 P.M. or on Wednesday morning.

All exhibits must be set up by 9:30 A.M. on Wednesday and cannot be dismantled before 11:45 A.M. on Thursday. All items must be removed from the exhibit hall by 1:30 P.M. on Thursday.

Exhibits will be assigned per item 2 of the rules and regulations. A check or credit card for $360 ($550 after Aug. 15) must accompany each application for exhibit space. One conference registration fee is included per booth.

All applications must be received prior to August 15, 2012, as the space assignment date is September 1, 2012. Exhibitors will be notified of the space assignment at the beginning of September.

If you have any questions or need any more information, please send me an e-mail at cstrackbein@earthlink.net. Thank you for your continued support of the WWOA.

Carol Strackbein,
WWOA Exhibit Committee Chairman

P.S. Please note that each person staffing the booth must register for the conference.

We recommend that you preregister to save you time and frustration.
2012 WWOA exhibitor display application form

Please reserve an exhibit space for us at the WWOA Annual Conference to be held at the Kalahari Resort, Wisconsin Dells, WI on October 10 & 11, 2012. The display fee will be $360 for applications received prior to Aug. 15 and $550 for applications received after this date. A sponsor fee of $75.00 is included in this price. The exhibit fee will include: One member conference registration, booth drapery, table with drapery and chair, one 110 volt electrical connection, and sponsor fee. Additional electrical connections or supplies may be ordered from the exhibit set-up company.

We understand and agree that, upon acceptance of this application, we will be bound by the WWOA exhibit rules and regulations. Please provide the following information:

COMPANY _____________________________________________________________________________________

CONTACT NAME________________________________________________________________________________

E-MAIL ADDRESS _______________________________________________________________________________

MAILING ADDRESS ______________________________________________________________________________

CITY & STATE, ZIP and TELEPHONE: _______________________________________________________________

Names & titles of people who will staff your booth at the conference: Please attach a registration card for these individuals along with the appropriate registration fee.

________________________________________________________________________________________________

Type of Equipment your company supplies _____________________________________________________________

(Please be specific, i.e. coatings, safety equipment, etc.)

Please name any competitors who should not be placed near your booth:

________________________________________________________________________________________________

Please list the name of another exhibitor you would like placed adjacent to your booth

________________________________________________________________________________________________

We would like to purchase another exhibit space if one is available (One Application/Booth): YES NO

Please make checks payable to WWOA for $360 or $540.00 plus conference registration fees (Four booth maximum per firm - five contiguous booths for reps and principals.) You can also register online (www.wwoa.org) using a credit card.

VISA           MASTERCARD            DISCOVER

Name on card: ___________________________________________________

Card number: _______________________________________________ Expiration date: _________________

Please return a copy of this application (or register online) to: Wisconsin Wastewater Operators’ Association c/o Richard McKee, 24184 Fawn Meadow Lane, Richland Center, WI 53581. ☐
in leadership. The usual story is that one can count on just a few fingers the number of key community leaders who have ever taken the time to visit the facility and learn what it is they do. This doesn't make a lot of sense when, except for police, public works is usually the greatest expense for any municipality.

We also need to more fully partner with our community or area school districts. These kids are our future workforce. Attending an annual career or job fair is simply not enough. We need to emphasize this as a recession-proof, rewarding, fairly well compensated career—a career in which one need only look downstream of the outfall to see the positive effects of their efforts.

Generation Y is the face of tomorrow's wastewater operator and it's incumbent upon us to better understand what motivates them if we are going to attract them to the wastewater industry. This is the generation raised on video games and cell phones. The perception of these young people is a lack of attention span as they play a computer game and text message a friend while conversing with someone else. We frequently see that as an inability to focus rather than seeing it as an enormous talent for multi-tasking. Multi-tasking is good, right?

How do we get people engaged in wastewater? By being engaging! Speak their language by highlighting state-of-the-art SCADA interfaces and dialers with text messages alerts. GenYers thrive on technology, and there is a lot of technology in wastewater treatment.

Efficient treatment requires a delicate balance. If your food source is insufficient and influent too high, you'll blast your solids right out of the plant. On the other hand, too much solids loading will throw off your sludge production. Factor in the intricate nature of wastewater critter population dynamics, and you have all the makings of a living video game. This is exactly the challenge today's youth seeks. Like a quest for a new high score on their video game du jour, they will apply their gaming skills to seek the creative approaches to efficient and effective treatment.

Wastewater operation requires adaptability, the ability to think and react quickly, and the ability to apply creative thinking to solve complex problems. These are skills that GenYers have honed to a razor sharp point. The Federation of American Scientists (FAS) recently reported, “The success of complex video games demonstrates that games can teach higher-order thinking skills such as strategic thinking, interpretative analysis, problem solving, plan formulation and execution, and adaptation to rapid change. These are the skills U.S. employers increasingly seek in workers and new workforce entrants.”

We all agree that the retirements are coming. We must replace a vast expanse of knowledge that will be lost and build that into a new generation that functions differently.

Our message needs to underscore that state-of-the-art technology is an integral part of this industry. And we need to emphasize results rather than shock and awe.
New IT technology reduces the life cycle cost of SCADA

By Ray Grosch, rgrosch@intellisys-is.com

SCADA (Supervisory Control and Data Acquisition) applications have become a necessary tool for utility operations today. SCADA systems help to improve efficiency and reduce operational costs by providing remotely monitored operations, automating data collection and documenting operational compliance with regulatory requirements. SCADA systems have also evolved into fully functioning automated facility management systems. These systems can provide preventative and predictive maintenance, regulatory compliance reporting, security and surveillance, energy management, waste receiving and billing, performance benchmarking and numerous other facility management applications.

Most current SCADA software in use today has been developed specifically for the Microsoft operating system. Software that is written specifically for a single operating system is often expensive to maintain because each upgrade to an operating system or new operating system often requires an expensive and sometimes complex SCADA software upgrade. These upgrades are commonly mandated by computer hardware replacement as computer hardware requires replacement every few years.

Today new information management technologies make possible the development of browser based SCADA software solutions that are independent of hardware, operating systems and communications media. This technology has been in use for many years but has not generally been implemented by many SCADA software vendors. Web-based visualization is available today with highly secure network and web services.

The advantages of the new web browser based SCADA architecture are many. Remote access to a secure system can be as simple as having secure credentials and accessing the system from any location using an Internet connection via a computer, cell phone or other network enabled device. An advanced web-based visualization environment and fully functional remote access suite of applications when required, without the traditional complex client license requirements.

continued on page 34
Jim Krueger remembered

James H. Krueger, 70, the Town of Wescott, passed away unexpectedly on Sunday morning, April 29, 2012, at his home.

Jim was born July 26, 1941, in the Bear Creek, Wis., and graduated from Hilbert High School. Following school, he entered the US Air Force.

On Oct. 31, 1964, he was united in marriage to the former Sharon Preuss at Trinity Lutheran Church in Bear Creek, Wis. Following their marriage the couple lived in Hilbert, Wis. He later moved, along with his young family, to Denmark, Wis., where he had been employed with the Village of Denmark at the wastewater treatment facility for over 30 years. He then moved to Post Lake where he worked as the manager of the wastewater treatment plant in Antigo until his retirement in 2011.

Jim served as President of the Wisconsin Wastewater Operators Commission from 1992 to 1993. In his spare time he enjoyed hunting, fishing and golf.

Survivors include his wife, Sharon, a resident of Pine Manor Health Care center; two sons, Dean A. (Elizabeth) Krueger, Andover, Minn.; and James L. (Kerry) Krueger, Tomahawk, Wis.; his mother, Alma Krueger, the town of Wescott; three grandchildren, Ben Krueger, Madeline Krueger and Kate Krueger; one brother, Rick (Kathy) Krueger, Kiel, Wis.; four sisters, Carol (Bob) Buchholz, Neenah; Lois (Max) Lemke, the town of Wescott; Betty Beattie of the town of Wescott; and Donna Lopez, also of the town of Wescott; many nieces and nephews.

WWOA scholarships available

WWOA has three $1000 scholarships available this year. And is also offering six $150 tuition reimbursements. The tuition reimbursements are on a first-come, first-serve basis. Application information and forms are located at www.wwoa.org. If you have any questions, please feel free to contact Sharon Thieszen at 920-459-3464 or sharon.thieszen@sheboyganwwtp.com.
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6.0 DNR credit hours will be available
The Wisconsin Wastewater Operators Association Board of Directors meeting took place on Thursday December 8 and Friday December 9, 2011 at the Kalahari Resort and Convention Center, Wisconsin Dells, WI.

1. CALL TO ORDER, Roll Call- President R. Thater called the meeting to order at 10:05 a.m. on Thursday December 8, 2011 at the Kalahari Resort and Convention Center, Wisconsin Dells Wisconsin. Roll call was taken. All board members were present.

2. APPROVAL OF MINUTES of, October 3 & 4, 2011- After review K. Freber made a motion to approve the minutes as presented, D. Carlson seconded the motion. Motion carried.

3. FINANCIAL REPORT- McKee presented the financial statement for the Board to review and approve. McKee stated that as of November 10, 2011 the WWOA had revenues totaling $163,483.46 and expenditures of $135,800.64 with excess revenues over expenditures of $27,682.82. After discussion D. Carlson made a motion to approve the financial statement as presented, S. Thieszen seconded the motion. Motion carried.

4. COMMITTEE REPORTS
   a. Nominations- No report.
   b. Promotional Items- L. Lutz reported that there was $891.01 in total expenditures for 2011 and revenues of $883.00 for promotional items. L. Lutz provide the Board with an inventory of items purchased and sold for this year.
   c. Membership- No report.
   d. Scholarship- No report.
   e. Executive Committee- No report.
   f. Clarifier- J. Butt Provided the Board with a rate schedule for the Clarifier ads. He informed the Board that the average for 4 years shows a budget deficit for the Clarifier and is recommending to the Board that there be a rate increase. This would be the first increase since September 1, 2006. He presented to the Board three goals for such an increase. 1) Rates should be increased enough to eliminate the projected deficit average of $600 per issue. 2)Increased to minimize the need for additional increases in the near future. 3) The new rates should maintain the current position as the best advertising deal in the state.
   After discussion K. Freber made a motion to increase the Clarifier ad rates by 20% beginning with the first of the year, K. Zimmer second the motion. Motion carried.
   g. Career Development- L. Lutz Reported that he and D. Carlson would be attending the Wisconsin School Counselors Assoc. conference on February 23 and 24, 2012. The Conference has been moved from Stevens Point to Monona Terrace in Madison.
   h. Awards- No report.
   i. Operator Training- L. Lutz informed the Board that the Committee is looking into having Toni Glymph back to do her microbiology session again in 2012. The North Central Region has contacted Toni to schedule her for a session on August 13, at NCL. The Training Committee will look at scheduling a session in the southern part of the state the day after the session at NCL.
   j. Directory- No report.

continued on page 37
k. Publicity- L. Lutz reported all requests for press information forms for award winners were returned except from the Southeast Regions recipient. Photos were obtained from Tom Crouse. The photos were provided to Jon Butt for the Clarifier.

l. Regional Coordinator- K. Zimmer provided the Board with a spreadsheet of the regional meeting for 2012. She will update the list as the meeting dates and locations are known.

m. Government Affairs- K. Freber stated the Committee met on October 26th, 2011. The Government Affairs Seminar will be held on February 23, 2012, at the Marriott Madison West in Middleton, Wisconsin. K. Freber provided the Board with tentative agenda.

n. Biosolids Symposium- The 2012 Biosolids Symposium will be held on March 21, 2012 at the Holiday Inn Convention Center in Stevens Point.

o. Liaison- S. Thieszen reported that the annual business meeting of Wisconsin Section CSWEA was held on November 10, 2011 at Cabela’s in Richfield. Dave Arnott was elected to Vice Chair and Josh Gable was elected Secretary/Treasurer. The new officers will start their terms at the conclusion of the section business meeting in May 2012. S. Thieszen provided the Board with a list of upcoming meeting locations and dates.

p. Web Site- J. Bratz reported that Scott Thompson is stepping down as webmaster and WWOA has advertised for applications for his replacement and the list has been narrowed down to three possible people. Bratz informed the Board that there needs to be more defined roles for the committee members, committee chair and the executive secretary. Web enhancements need to be thoroughly discussed, researched and approved in an organized manner. Webfit has put together a new program called “issue tracker”. This allows systematic control and progress updates and better accountability to all concerned.

q. Technical Program- K. Freber reported that the call for papers went out the first week of November. The keynote speaker will be Mike McKinley from Eau Claire. His cost is $4000.00 plus one night stay at the Kalahari. The entertainment will be Dueling Pianos show from Jim Wand of Wand Enterprises at a cost of $3750.00 plus expenses.

continued on page 38
r. Exhibit Committee & M&C- No report.
s. Operators Competition- No report.
t. Local Arrangements- K. Zimmer informed the Board that one of the tours will be held at the Badger Army Ammunition Plant and possibly tour the BAAP Modified Interim Remedial Method building. MSA will provide snacks and beverages at the tour site. MSA will coordinate the needed volunteers to help at the registration booth.
u. Spouse Program- K. Zimmer stated that she is planning only one day of organized activities. Wednesday there will be a continental breakfast in the spouse’s room with the rest of the day they will be on their own. Thursday the program will start with a continental breakfast and then board a bus for the Al Ringling Theatre tour, followed by lunch at the Garden Party. After lunch there will be an activity session held at Bekah Kates and Spa Serenity.
v. Golf Outing- R. Herwig reported that the golf outing will be held at the Christmas Mountain golf course. Herwig is getting price for the golf outing and will get a contract to McKee for signing.
w. Sporting Clays- No report.
x. Permanent Arrangement- No report.
y. Resolutions and Bylaws- No report.
z. Historical- No report.
A motion was made by D. Carlson and seconded by L. Lutz to accept the committee reports as presented. Motion carried.

5. OLD BUSINESS
a. McKee reported that he will be working on the new policy book this winter and hopes to have it ready for the April Board meeting.

6. NEW BUSINESS
a. President Thater reviewed the Board policy on reimbursement for the new Board members as well as review for old Board members.
b. 2012 Budget- After review and changes K. Freber made a motion to approve the 2012 Budget as amended, seconded by K. Zimmer. Motion carried.

7. ADJOURNMENT
There being no further business J. Bratz made a motion to adjourn, K. Zimmer seconded. Motion carried.
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