IWEA Collections Systems Seminar A Success!

By Tom Woods, Collection Facilities Chair

On November 14, we held our 13th annual IWEA Collections Systems Seminar and Exhibition at the Hyatt in Lisle. Attendance by 58 collection system professionals supported by 23 suppliers to the industry, helped make the conference a success.

Attendees had four different topics to choose from to help them in their everyday work in the collection system of their municipality or client. The topics were very interesting to some and appealed to the geek factor dormant in a lot of public works staff and engineers. They included . . .

1) A presentation from the National Oceanic and Atmospheric Administration, talking about their value as a resource, the forecasting they do and the tools they have that a municipality may not know about.
2014 is promising to be another great year for IWEA members. It’s our Association’s 35th anniversary with more events planned than ever. Our Government Affairs Seminar was a great kickoff to 2014 at its new location in Burr Ridge. The joint seminar is always a big draw, and this year the weather cooperated for a big turnout. Thanks to Lou Kollias and committee for putting together a great program.

The Annual Pretreatment Dinner is February 19 in Oakbrook; the T-CON Midwest Water & Wastewater Technology Conference is June 5 in Grayslake; and the Enhancing Urban Soils for Living Landscapes Conference is June 29 - July 2 in Chicago. Those of you already tired of this winter weather can start thinking about our annual golf outing, currently planned for August 1. Check our website for event details.

WATERCON 2014 will be held March 17 – 20 at the Crowne Plaza Hotel in Springfield. The preconference program has gone out and exhibit space is sold out. Look for details on the first ever IWEA Wastewater Operators Challenge at the conference. The event runs through St. Patrick’s Day this year; expect some “green” infrastructure topics and a hidden pot of gold in the exhibit hall. To celebrate our 35th, our Annual Banquet returns to the Abraham Lincoln Presidential Library and Museum, a truly special location to mark the occasion and present our member awards. Dinner sponsorship opportunities are available.

Our 2014 membership drive is on. The goal to reach 1,000 members strong is achievable this year with your help. Please tell at least one of your contacts about the value of joining IWEA - there are prizes to win. Everyone that recruits someone is entered into a drawing for an iPad mini, and top recruiters will win other prizes. The membership drive details are available on our website. If you are not receiving our e-news, contact Mary Johnson and get on the list. It is a great way to keep up with upcoming events and IWEA initiatives.

It’s cold out there right now. Protect your equipment and most importantly yourself and your coworkers. OSHA winter safety information can be found at www.osha.gov/as/opa/cold_weather_prep.

Stay safe. Our water environment is depending on you, even when it’s frozen!

Baby its Cold Outside!

Submitted by Laurie Frieders, IWEA Executive Director

Cold weather, what fun and excitement! The slipping and sliding, ice and snow removal, frostbite on exposed skin, what more could anyone ask for? What’s that you say, you wish this was the tropics? No, you live in the paradise we call Illinois. Northern half of the state is frozen; southern half of the state is drowning. We have it all here in Illinois. Here are some tips to help survive the cold.

When the temperature dips below 40°F, a human is susceptible to all kinds of maladies, hypothermia being the first. Yep, hypothermia, the lowering of the core body temperature just a few degrees, can sneak up on you. You will first notice hypothermia when you experience muscular hyper-tonus or “shivering”. Shivering is your body’s attempt to bring the core body temperature back to normal. When you suffer from hypothermia, you may seem apathetic, confused, disoriented, or have memory lapses. Don’t be afraid to warm up in the truck or office. You can avoid hypothermia. Watch weather forecasts during the winter months especially if you will be working or playing outside. Dress in layers. If you get hot, you can always take a layer off. One of the pitfalls when you shiver is that more energy is burned trying to bring the core temperature back to 98.6°F; then is produced. Not a very good exercise program.

When the temperature drops below 32°F, the skin is susceptible to frostbite. Frostbite is the freezing of human flesh. You may be suffering from hypothermia; your fingers/nose/ears are tingling when all of a sudden those extremities don’t hurt anymore. If you didn’t put on more clothes to protect exposed skin, you may be about to suffer the effects of frostbite. The skin will take on a pale colorless look because the blood vessels have constricted resulting in lack of oxygen, excess fluid buildup, blistering, and tissue death. The skin color will change from pale to grayish yellow to reddish and finally to black. Mild cases of frostbite, if there is one, are just blisters. You can avoid frostbite by taking special care to cover your fingers, hands, face, ears, and toes. During the winter, there are multiple newspaper stories of folks that went out in the winter weather, got stuck in a bad situation and lost toes, noses, ears, and fingers to frostbite.

Both hypothermia and frostbite can be avoided by a little bit of preparedness. If you are going out in the cold weather, dress in multiple layers of clothing. Keep your hands, feet, and head covered. If you get hot, take a layer off. Most folks don’t know that sweating only exacerbates hypothermia as the wet underclothes will freeze. Don’t work alone in cold weather. A buddy system should be used to look out for one another. Take regular breaks in a warm environment (your truck or office). Keep moving when you are sentient. Don’t work alone in cold weather, got stuck in a bad situation and lost toes, noses, face, ears, and toes. During the winter, there are multiple newspaper stories of folks that went out in the winter weather, got stuck in a bad situation and lost toes, noses, ears, and fingers to frostbite.

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In honor of IWEA’s 35th anniversary, the annual banquet and dinner will once again be held at the Abraham Lincoln Presidential Library and Museum. Please join us in celebrating IWEA’s 35 years of providing leadership and support to our industry and honoring this year’s award winners. WEF Trustee Jenny Hartfelder from Rocky Mountain, CO will be joining us. Don’t miss this fun and unique experience.

The banquet is being held Monday, March 17th, 2014, at 6pm during WATERCON. To attend this don’t miss event, make sure you check the IWEA Banquet box when registering for WATERCON. This is a separate ticketed event, and tickets may be purchased without registration to the conference.

Sponsorships opportunities for the banquet are still available at these levels:

- Presidential: $750 (includes two banquet tickets)
- Gold: $500 (includes one banquet ticket)
- Silver: $300

Please contact Laurie Frieders at ExecMgr@iweasite.org or 630-301-6825 to sponsor.

35th Annual Awards Banquet at the Abraham Lincoln Presidential Library and Museum

Submitted by Laurie Frieders, IWEA Executive Director
All About Biogas Part I
By John Norton, Energy, Powers and Controls Committee

This is the first of two articles presented by the IWEA Energy committee on alternative uses of digester biogas to help decrease overall WWTP energy consumption. This first article briefly details the economic variables that are important for a successful fleet refueling project. The rising prices of liquid fuels and occasional excess biogas production have combined to spark considerable interest in using treated digester gas to meet fleet refueling needs. Although fleet refueling using digester biogas might seem to be either too challenging or an obvious winner, the reality of the success lies somewhere in-between. This information is intended to be part of the decision factors to implement a biogas supplemented fleet fueling system.

Fuel Costs
The primary driver for economic success of implementing a biogas for vehicles program is the cost benefit between gasoline and CNG-power vehicles, on a per mile basis. Although the digester gas is “free”, the treatment of digester biogas adds both a capital and an operational cost to a fleet refueling station. The capital costs are the infrastructure, equipment, and construction costs while the operational costs are electricity, media for removing impurities, and membrane replacement. Typical biogas treatment and onsite delivery costs work out to roughly $0.60 to $1.00/GGE, depending on biogas composition and amount.

Fleet Maintenance Cost
On a vehicle to vehicle basis, the maintenance costs of CNG vehicles tend to be 15-25% lower than for gasoline vehicles due to fewer moving parts and reduced wear and tear experienced by CNG-fueled engines. However, fleet managers have reported both increased and decreased overall maintenance costs resulting from the addition of CNG vehicles to their fleet. Fleets that have experienced lower maintenance costs are those that switched primarily to one engine type; e.g., a complete fleet switch over to CNG-fueled engines. In contrast, the inefficiency of servicing multiple engine types can drive increased CNG maintenance costs. In other words, if a fleet adds a new engine type and doesn’t eliminate any of the existing engine types, the maintenance cost per vehicle tends to increase.

Ancillaries Cost Benefits
The final cost benefit of using digester biogas for fleet refueling is the generation of renewable energy credits, called Renewable Identification Number (RIN’s). RINs are created when biogas is used as a vehicle fuel and require a moderate accounting procedure. RINs can be sold to fuel refineries to help them meet their Federal Renewable Fuel Standard (RFS) requirements. Recent projects have sold RINs for close to $1/GGE, nearly offsetting the cost of gas treatment and delivery. Although RINs are useful for offsetting the operational costs of biogas treatment, the thin market and short-term contracts of RINs often limit the ability of RIN sales to help finance the capital costs of a biogas to a CNG project.

Next issue:
The technical issues of biogas treatment and delivery. John Norton is a business development engineer working for HR Green and can be reached at jnorton@hrgreen.com.

IWEA Operators Challenge
By Greg Garbo, Plant Operations Vice Chair

The Plant Operations Committee has been very busy this year planning the “Event of the Century”, well… it’s early. This year, the IWEA will have its first ever Operators Challenge. “Whooa down there Nellie!” This event is not as extensive as WEFTEC! The event will be held during WATERCON on Tuesday, March 18, at 1pm in the center aisle of the Exhibit Hall.

The goal of the Operators Challenge is to provide a fun but educational experience. There are four challenges: Laboratory, Maintenance, Safety, and Operations.

The Laboratory challenge will consist of a low level chlorine analysis (SM 4500-Cl G). Each participant will be required to do the provided goggles, lab coats, aprons, and gloves. Emphasis will be placed on procedure, technique, set up and clean up. The challenge criteria for grading will be twenty different aspects of the analysis. Judges will be knowledgeable and stringent, just like the regulators!

The Maintenance challenge will consist of work on a rotary lobe pump. The challengers will utilize the provided equipment and tools necessary to remove the lobes and rebuild the pump. Grading will be on 20 different aspects of the job including preparations, maintenance techniques, clean up, and use or lack of profanity. Judges are industry professionals and equipment representatives, so be on your toes!

The Safety challenge will be a hazardous atmosphere confined space entry. This is an especially difficult challenge as the participant will have to pretend to enter such a space. The equipment and safety gear will be provided.

Sharpen up your wits! The Operations challenge is a quiz developed by the high academics at the Environmental Resources Training Center. These guys say the quiz will challenge even the most knowledgeable and astute operator. It’s short, but the scenario will make you think.

The grade sheets will be submitted to the Head Judge table. There, in a top secret high security area, the knowledgeable judges will tabulate the results. The winners will be announced at the end of the event. Each participant will be awarded a Certificate of Achievement. The winners of each event, individual and team, will receive a trophy and the undying respect and adulation of the crowds.

This event is for team or individual participation. Teams can be made of 2-4 people. Each member of the team must enter at least one challenge. Individuals may choose to enter just one challenge or all four, making it easy to participate as you wish.

Information on registration for the Operators Challenge will be forthcoming.
The Water Reclamation Facility for the City of Plano is located on the southeast side of town, next to Foli Park. The plant has a long history of providing excellent service to its 10,500 residential customers and various industries. The original wastewater collection system for the City of Plano was constructed in 1938. The sewer system has been expanded as areas of the City developed. Two primary settling tanks were built in 1938 and a trickling filter was built in 1965. They are no longer in use.

The original process portion of the system was a 0.60 MGD activated sludge plant utilizing a contact stabilization flow sheet. The final settling tank was located in the center and the aeration, aerobic digestion and chlorine contact tanks were located in the outer annular area. The plant was expanded in 1983 to handle a daily average flow of 0.95 MGD per day.

In 2004, the plant underwent a major improvement project. They expanded the plant design increased design average flow from 0.95 MGD to 2.44 MGD. Flow enters the 6 mm mechanical bar screens. The screenings are washed, compacted and disposed. Wastewater then enters the aerated grit tanks to remove heavy inorganic solids and grit is washed and removed. In dry weather conditions, flow is stored in the equalization tanks which serve as fermenters and then conveyed to the BNR system where nutrients in the waste are processed. Flow is then routed to two 75 ft diameter final clarifiers and then to UV disinfection. The effluent flows to a pond where it is used by the City for irrigation. The solids treatment system includes WAS storage, rotary drum thickening, aerobic digestion and centrifuge dewatering. A SCADA system was also installed to provide remote monitoring and control.

In 2012, the City received a grant for adding a turbo blower. It was elected as President during the organizational year of 1979-1980 and served again during 1980-1981, the new member association's first official year. Following his term as President, Paul continued to be very active in our organization including work on the Program, Awards, By-Laws, and Nominating committees among others. He also served a three-year term as WEF Director (now Delegate) from 1996 through 1999, and was the Annual Luncheon speaker for IWEA's Twentieth Annual Conference in 1999. In addition to Paul's participation in IWEA, he was also active in the American Public Works Association and American Water Works Association. Paul also sang in the choir of the First United Methodist Church in Champaign for over 50 years and was active in Habitat for Humanity.

In recognition of his service to IWEA, Paul became a charter member of the Illinois Select Society of Sanitary Sludge Shovelers in 1981 and also was a recipient of the Bedell Award. To further recognize Paul’s long tenure of service, IWEA established the Paul Clinebell Outstanding Service Award in 2005 and presented Paul with the first award during that year.
Over 120 people attended the Annual IWEA/CSWIA Government Affairs Seminar on January 10 at the Chicago Marriott Southwest in Burr Ridge, Illinois. This was a new venue and was well received by all participants. Our Keynote Speaker was Marcia Willhite, Bureau of Water Chief from the Illinois Environmental Protection Agency. Marcia discussed the Illinois Clean Water Initiative which provides for low interest loans, the Illinois nutrient reduction strategy; NPDES Permits and excess flows, the Chicago Area Waterways Use Attainability Analysis, and the separation of the Great Lakes and the Illinois Waterway. Her presentation was very informative.

The other presentations featured a variety of topics. Stephen McCracken from the Conservation Foundation and DuPage Waterways Use Attainability Analysis, and the separation of the Great Lakes and the Illinois Waterway. Her presentation was very informative.

The final presentation, given by Cindy Skrukrud of the Sierra Club, was a very insightful view of how environmental impacts on their village’s planning and construction activities. The final presentation, given by Cindy Skrukrud of the Sierra Club, was a very insightful view of how environmental groups and utilities can and have worked together to achieve a common goal. All presentations were well received by the attendees and are available on the IWEA website.

I wish to thank the members of the committee for all of their work over the past year. Thanks to Bob Johnson, Laurie Frieders, Deb Ness, Carl Fischer, and Jay Patel.

The US EPA, in collaboration with its partners in the Water Sector, sponsored the fourth Water Laboratory Alliance (WLA) Security Summit in Chicago on November 20 & 21, 2013. More than 120 professionals from the laboratory, water utility, emergency response, public information office, and first responder communities attended this event.

Keynote speaker Cheryl Newton, the EPA’s Region 5 Associate Administrator, emphasized that planning a daily practice is key to managing a catastrophic incident when it occurs. She mentioned that preparation, communication, collaboration, and resource management have helped the US EPA achieve many goals. One example was that the US EPA Region 5 laboratory worked with the Emergency Response Team and Water Security to provide three-hour turnaround times for six types of analyses during the NATO Summit in 2012. She encouraged everyone to always be prepared for the unexpected, such as the series of tornadoes that recently struck Washington and Pekin.

Another keynote speaker, Peter Grevatt, EPA Director of the Office of Ground Water and Drinking Water, stressed that it is crucial for utilities and labs to maintain preparedness in today’s complex times even though resources are sometimes limited. By networking with others, he said that we could better manage the “Hunger & Thirst for Information”, and help ourselves react and recover faster in the event of incidents. He urged the Water Sector to participate in the exercises offered by the WLA to improve preparedness.

Chris Retardies of the Virginia Division of Consolidated Laboratory Services and Dan Krier of the Minnesota Department of Health Public described the benefits of being WLA members:

1. Learn new methods from other labs
2. Increase lab capabilities
3. Improve lab network relationships
4. Expand involvement with other labs
5. Access the EPA Lab Compendium
6. Access methods for unregulated contaminants
7. Approach subject matter experts such as project management, instrument advice, and method development
8. Use WLA-Response Plan (WLA-RP)
9. Frequent exercises to become prepared
10. Resource (funding opportunities)
11. No need to reinvent the wheel

In addition, Connie K. Schreppel of the Mohawk Valley Water Authority talked about installing 26 on-line monitoring and safety systems around their facility to help the overall lab quality and reduce labor. David Greene of the Kansas City Missouri Water Services Department shared how his lab is improving its resiliency by proactive planning. Michael Wichman of the Iowa State Hygienic Laboratory spoke about how the City of Iowa quickly responded to fires, tornadoes, and floods in the past ten years and was able to secure the drinking water source. Kevin Anderson of the Department of Homeland Security said that the quicker we are able to handle any incidents, the more money we will save. He gave the 2001 Anthrax treatment as an example.

The Summit also offered the first-time Table Top Exercises including 18 scenarios and 10 activities. After the exercises, the participants had increased familiarity with key elements of the WLA-RP, the role that laboratories and others play in an emergency response, the EPA Water Security tools, Lab Compendium, Water/Wastewater Agency Response Network (WARN), Web-based Electronic Data Review, Disposal Guide, as well as established relationships with water utilities, state laboratories and stakeholders.

Patricia Tidwell-Shelton, EPA Chief of Threats Analysis, Prevention and Preparedness Branch, closed the Summit emphasizing that communication is critical and encouraged the Water Sector to "learn new things", "share old things", and "make connections with others" to promote preparedness.

Laboratories are encouraged to enter their lab profiles in the Laboratory Compendium and apply for the free WLA membership to establish a network with the EPA and other peer laboratories. The WLA offers four exercises every year to members or non-members who are interested. Through the partial or full exercises, the laboratory can promote preparedness and quickly provide support for any unforeseen environmental and public health incident.

Over 120 people attended the Annual IWEA/CSWIA Government Affairs Seminar on January 10 at the Chicago Marriott Southwest in Burr Ridge, Illinois. This was a new venue and was well received by all participants. Our Keynote Speaker was Marcia Willhite, Bureau of Water Chief from the Illinois Environmental Protection Agency. Marcia discussed the Illinois Clean Water Initiative which provides for low interest loans, the Illinois nutrient reduction strategy; NPDES Permits and excess flows, the Chicago Area Waterways Use Attainability Analysis, and the separation of the Great Lakes and the Illinois Waterway. Her presentation was very informative.
2) A panel on Emergency Preparedness. The rains/floods of April 2013 tested everyone’s collection system. The panel consisted of three municipal people, including representation from IPWMAN.
3) A regulatory update from Amy Dragovich of the Illinois EPA.
4) A short, hands-on session on proper vacor maintenance.

Former Committee Chair Al Hollenbeck surprised current Chair Tom Woods by presenting him with the Golden Manhole Award for 2013. Tom has been sticking his head in sewer manholes for the 14 years or so, the last six of which have been in his capacity as Sales Representative in northeast Illinois for Visu-Sewer of Illinois, a 38-year old, full service sewer rehab company based in Wisconsin.

Please make note of two important dates coming up in 2014.

On Thursday, March 13 we will hold our bi-annual refresher course for the Wastewater Collection Systems Operator Certification. To be held in Addison’s village hall, the course will cover important aspects of the material on the Illinois Certification. To be held in Addison’s village hall, the course will cover important aspects of the material on the Illinois Certification.

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In addition, through the Custom Incentive Program, there are numerous other funding opportunities available to aid in the purchase of fine to ultralfine bubble diffusers, dissolved oxygen control systems, advanced mixers, VFDs, premium efficient motors, and any other process technologies that can both help to improve the treatment system function as well as lower utility bills.

Other funding opportunities, through the Illinois Clean Energy Community Foundation (ICECF), can provide for additional capital through several of their programs. The ICECF Energy Efficiency program has helped facilities receive many of the measures listed above. Their Renewable Energy program has worked to install solar facilities receive many of the measures listed above.

Incentives Offered for Illinois Wastewater Treatment Plants

By Brian Katamay, UC Energy Resources Center
Submitted by Mary Johnson, Delegate 2016

Public sector grant funds are continuing to be rolled out for the State of Illinois, allowing facilities to improve their processes while reducing their energy consumption. The Department of Commerce and Economic Opportunity (DCEO) has introduced an addendum to the Illinois Energy Now program, entitled “Clean Water Energy Efficiency Initiative,” which gives an incentive for the installation of high speed turbo blowers for aeration systems that can cover up to 100% of the equipment cost.

In addition, through the Custom Incentive Program, there are numerous other funding opportunities available to aid in the purchase of fine to ultralfine bubble diffusers, dissolved oxygen control systems, advanced mixers, VFDs, premium efficient motors, and any other process technologies that can both help to improve the treatment system function as well as lower utility bills.

Other funding opportunities, through the Illinois Clean Energy Community Foundation (ICECF), can provide for additional capital through several of their programs. The ICECF Energy Efficiency program has helped facilities receive many of the measures listed above. Their Renewable Energy program has worked to install solar cells, wind turbines, and biogas systems in these same facilities. In many cases the grants can be combined from both the Foundation and DCEO to help cover the project cost. More information can be found on their website: www.illinoiscleanenergy.org.

Partnered with the state, the Energy Resources Center (ERC), located at the University of Illinois in Chicago, is a non-profit organization that is uniquely positioned to provide free services that help facilities leverage all of these potential funding sources and develop a comprehensive energy plan for future projects. In addition, the ERC can provide funding for improving natural gas boiler systems as well as for CHP feasibility studies through the DOE’s Midwest CHP Technical Assistance Partnership. Several Illinois wastewater treatment plants are on their way to becoming net-zero energy users and it is our combined goal to expand this opportunity to the rest of the state’s treatment facilities.

If there are any questions about energy incentives in the state of Illinois, please contact:
Brian Katamay
(312) 355-2019
Bkatam2@uic.edu
www.erc.uic.edu

Welcome New Members
By Frederick Wu, Membership Chair

October
Carl J. Dahne
Safety Consulting Engineer
Jim Heydorn
Tammy Bennett
Cabot Corporation
November
Jennifer Hydra
EnviroScience, Inc.
Katherine A Stephens
Deann Hanna

December
Yokhana Aikass
Electrical Engineering Consultant
Lakhwinder Hundal
MWRD
Robert Johnson
Edward Kalina
Engineering Solutions Team Inc.

January
Blake Anderson
Sunay Salievski
Schalling Ventures, LLC
Barbara Scarpardine
MWRIGC
Lawrence Beckom

Students and Young Professionals at WATERCON 2014
By Lou Storino, Young Professionals and Student Chapters Committee Vice Chair

WATERCON 2014, being held March 17-20 at the Crowne Plaza in Springfield, Illinois, offers many activities for students and young professionals in addition to the benefits of attending technical presentations and the exhibit hall. Tuesday, March 18 there is a poster competition, “Mission Impossible” challenge and student and young professional reception.

Wednesday, March 19 offers a student and young professional breakfast, developing your own personal strategy workshop, toast masters workshop, career fair and mock interviews.

Registration and financial assistance available online at www.isawwa.org/WATERCON/Students
JOIN FELLOW WATER PROFESSIONALS AT WATERCON 2014, THE ILLINOIS WATER ENVIRONMENT ASSOCIATION (IWEA), ILLINOIS SECTION AMERICAN WATER WORKS ASSOCIATION JOINT CONFERENCE AND EXPO. THE CONFERENCE WILL BE HELD MARCH 17-20 AT THE CROWNE PLAZA IN SPRINGFIELD, ILLINOIS.

With more than 200 technical presentations, over 150 exhibitors, water and wastewater challenges, and student and young professional events including a career fair and mock interviews, WATERCON 2014 is the largest water and young professional events including a career fair and exhibitors, water and wastewater challenges, and student and young professional events including a career fair and mock interviews. WATERCON 2014 is the largest water event in Illinois covering potable water, wastewater and stormwater.

IWEA will be hosting its annual banquet on Monday, March 17 at the Abraham Lincoln Presidential Library and Museum to commemorate its 35th year and celebrate with IWEA award recipients.

I look forward to you joining me at WATERCON 2014 to find out the latest developments in our industry, network with others in our field, rekindle old friendships and make new ones. Register online at www.isawwa.org/WATERCON/Register.

As 2014 gets rolling, IWEA’s work supporting Illinois watersheds and streams keeps bobbing along as well. This month, From the Shed takes a look ahead to our all-day Watershed Management session at II. WATERCON and a discussion of the updated guidelines from the EPA for implementation of Nonpoint Source Management Programs under Section 319(h).

II. WATERCON – Watershed Management Session – Tuesday, March 18

We kick off the day with a presentation about integrated planning and permitting, where utilities consider both stormwater and wastewater compliance issues when prioritizing projects and dollars. Then we’ll hear from several IEPA presenters on topics ranging from stormwater NPDES permit compliance, water quality standards updates, and TMDL and Nonpoint Source program updates. The Session will then feature updates by many local watershed groups regarding their plans for their local watersheds. The full program is listed below:

- Stormwater NPDES Permits History and Compliance: Chasing Dirt – Chuck Corley
- Water Quality Standards Update – Bob Mosher
- TMDL and Nonpoint Source Program Update – Amy Walkenbach
- Watershed Open Forum Discussion – Steve Zehner
- DuPage River Salt Creek Work Group Update – Stephen McCracken
- Fox River Study Group Update
- Hickory Creek Watershed Planning Group Update
- Kaskaskia Watershed Association Update
- Cache River Watershed Stakeholder Group Update

Revised USEPA’s Section 319(h) NPS Program and Grant Guidelines for States and Territories Nonpoint Source Management Programs

The U.S. Environmental Protection Agency (EPA) issued revised guidelines to states and territories awarded Section 319(h) grants under the Clean Water Act (CWA) for the implementation of nonpoint source (NPS) management programs. These revised guidelines are found in Appendix C of EPA’s “Nonpoint Source Program and Grants Guidelines for States and Territories,” released on April 12, 2013.

The guidelines continue to place a strong emphasis on taking a watershed-based approach to restore NPS-impaired waters, with states and territories focusing on watershed project funds on these efforts. Following consultation with EPA, a limited amount of watershed project funds may also be used for projects to protect impaired/high quality waters when protection is cited as a priority in the state’s updated NPS management program. Procedural requirements from the 2004 guidelines for protection projects have been removed.

These guidelines are requirements applying to recipients of grants made with funds appropriated by Congress under Section 319(h) of the Clean Water Act. States and EPA regions will implement these guidelines in fiscal year 2014 and in subsequent years. These revised guidelines provide an increased emphasis on watershed project implementation in watersheds with impaired waters, and increased accountability measures. These guidelines also emphasize the importance of states updating their NPS management programs to ensure that Section 319(h) funds are targeted to the highest priority activities.

See answer on bottom of page 18. They are handy tips and tricks for stormwater professionals.

A little overgrown...

What a few good hands can do!

Continued on page 14

From the Shed
By Gunilla Goulding, Watershed Management Committee
In Illinois, the state EPA has recently updated the Illinois Nonpoint Source Management Program Plan (Plan) to incorporate required elements to meet the required changes in EPA's Nonpoint Source Program Guidelines that have occurred since the last Plan version (July, 2001). The EPA approved the presented updates to Plan as of September 2013.

Accomplishing the goals of the Plan will rely on the success of stakeholder-driven, well-developed watershed-based plans. Illinois EPA is committed to ensure that Section 319(h)-funded restoration and protection projects are guided by watershed-based plans (WBPs) that address EPA's nine minimum elements requirements for watershed-based plan development. Creation of these comprehensive plans must fully and completely address the EPA's minimum elements requirements. With this new EPA guidance, the use of Section 319(h) funds for the implementation of approved WBPs will be directed to restore impaired waters in Illinois. Illinois EPA will set aside at least 50% of EPA's Section 319(h) funds for projects that implement WBPs. The remaining Section 319(h) funds will be allocated towards the full range of activities which supports the goals of the Plan.

With the incorporation of these revised guidelines and updating of the Plan, Illinois EPA will focus these tools to address current and future impaired waters in Illinois by NPS pollution and to enhance 319(h) resources.

Lost: Society of Sanitary Sludge Shovelers!

By Greg Garbs, pH7 Inflow Regulator

Your valued assistance and help is urgently needed in locating the following members. The Society membership rolls are under stringent auditing and lost members need to be found. Please let me know the current whereabouts or if these members are retired, active, or deceased. There is another column for the “Let me alone” category. If you know any of these members, please respond to strtrwwtp@frontier.com or call me at the Streator Wastewater Treatment Facility, 815-672-2653, or my cell 815-257-2653.

Lost Members:
Harold Goldsmith
Robert Randolph
Don Harper
Michael Botts
John Pfeffer
Raymond Rinkus
Richard Eick
Eliana Brown
Greg Maxwell
Robert Klausgeger
Abbott Burton
Linda Smith-Vargo

If these members are still active in the IWEA, we hope to get them out of the shadow of Mount Biosolids and into the sunny sludge bed. All active members need to be included on the voting rolls to have a voice in nominating fellow colleges to our lofty pinnacle high on Mount Biosolids.

Hoping to hear from you soon!

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2013-2014 Executive Committee

<table>
<thead>
<tr>
<th>Member/Position</th>
<th>Affiliation</th>
<th>Telephone/Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Bounds</td>
<td>CDM Smith</td>
<td>(312) 346-5000 <a href="mailto:payment@cdmsmith.com">payment@cdmsmith.com</a></td>
</tr>
<tr>
<td>Kendra Sveum President</td>
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<td>(312) 583-7233</td>
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<td>Village of Addison</td>
<td>(630) 279-2140</td>
</tr>
<tr>
<td>Mary Johnson Corporate</td>
<td>Rock River Water Reclamation</td>
<td>(815) 387-7523</td>
</tr>
<tr>
<td>Treasurer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Lamb</td>
<td>City of St. Charles</td>
<td>(630) 377-4918</td>
</tr>
<tr>
<td>Tim Kluge</td>
<td>Sanitary District of Decatur</td>
<td>(217) 422-6933 ext. 214</td>
</tr>
<tr>
<td>Krishna Pagilla Past</td>
<td>Illinois Institute of Technology</td>
<td>(312) 567-5717</td>
</tr>
<tr>
<td>Chef President</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Debbie Ness Treasurer</td>
<td></td>
<td>(630) 553-8377</td>
</tr>
<tr>
<td>Mark Cluge</td>
<td>Sanitary District of Decatur</td>
<td></td>
</tr>
<tr>
<td>Krishna Pagilla Past</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chef President</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Second Quarter Financial Report

IWEA completed IRS Form IL90EZ as well as the IWEA annual report to the Illinois Attorney General during the second quarter. IWEA will also be submitting the financial records for the 2012-2013 fiscal year to be audited.

Financial Statement

<table>
<thead>
<tr>
<th>Bank Accounts</th>
<th>$122,322.65</th>
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<tr>
<td>Science Fair Fund</td>
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<tr>
<th>Asset Accounts</th>
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<tr>
<td>24 Month Reserve CD</td>
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<table>
<thead>
<tr>
<th>Asset Accounts</th>
<th>$10,148.93</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Month Reserve CD</td>
<td>$10,148.93</td>
</tr>
<tr>
<td>24 Month Reserve CD</td>
<td>$10,263.15</td>
</tr>
</tbody>
</table>

Total | $173,070.05 |
The nominating committee consisting of Krishna Pagilla, IWEA Past President and Tim Kluge, IWEA Delegate to WEF (2011-14) considered candidates for the Executive Board for the year 2014-15. The following are the final list of selected candidates who will be voted on by the membership at the next IWEA General Body meeting on March 17 at WaterCon 2014. The newest members to the Executive Board for 2014-15 are Mark Halm and Daniel Collins.

**EXECUTIVE BOARD NOMINEES 2014-2015**

**FIRST VICE PRESIDENT**

Mark Termini

Mark has been employed by the Village of Addison for over 39 years and served as Superintendent of Environmental Services. He is an Illinois Certified Class One Operator. Mark has received the Kenneth C. Merideth Award in 2009, and William D. Hatfield Award in 2012. He is a member of the Quarter Century Operators Club, and has served as the chair of the IWEA Safety Committee for many years, and as IWEA representative on the Il-W ARN committee, and various other IWEA committees throughout the years.

**SECOND VICE PRESIDENT**

Daniel Collins

Dan Collins is a Supervising Civil Engineer in-charge of Biosolids Management Division of the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC). Dan has a Bachelor of Science degree in Mechanical Engineering from Purdue University- Calumet. He is a Registered Professional Engineer in the State of Illinois. Dan has over 26 years of engineering experience at MWRDGC. He has served on WEF’s Residual and Biosolids Committee, National Biosolids Partnership Advisory Committee, and is currently the Chair of the IWEA Biosolids Committee. In addition to his active role in several IWEA seminars, Dan has initiated and successfully conducted the first two IWEA/CSWEA Biosolids Seminars held in 2012 and 2013.

**DELEGATE TO WEF 2014-17**

Mark Halm

Mark Halm has worked as a design engineer and project manager in the field of environmental engineering for nearly 23 years with twelve plus years at Walter E. Deuchler Associates, Inc. where he became a principal in 2006. Mark has a B.S. in civil/environmental engineering and a M.S. in civil/environmental engineering from Marquette University, and a MBA from the Keller Graduate School of Management. Mark is also board certified (BCEE) with a water/wastewater specialty by the American Academy of Environmental Engineers and Scientists. Mark oversees planning, design and construction of pump stations and wastewater treatment facilities. His involvement with the Illinois Water Environment Association spans twenty years where he has served on numerous committees such as Industrial Pre-Treatment, Public Education, and the Annual Conference. He was appointed as the first Chairman of the Young Professional Committee ten years ago and currently serves as the Chairman of the Nutrient Removal and Recovery Committee. He also organizes our highly successful golf outing each June, which raises considerable funds for the IWEA Scholarship and Charitable Giving activities. He has served on the IWEA Executive Board including as President during 2011-12.

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**PRESIDENT-ELECT**

Lou Storino

Lou Storino is a Principal Civil Engineer in the Collection Facilities/TARP Section of the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC). Lou has a Bachelor of Science degree in chemical engineering and a Master of Science degree in environmental engineering from the Illinois Institute of Technology. As an undergraduate, he served as the first President of the IWEA Student Chapter. Since then, he has served as the chair of the Young Professionals Committee, is a member of the Student Chapter Committee, served on the WEFTEC Local Arrangements Committee, and was the recipient of the Outstanding Young Professional Award in 2009 for IWEA. She also has several leadership roles with the Water Environment Federation in the Students and Young Professionals Committee, Municipal Wastewater Treatment Design Committee, and Technical Practice Committee.

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**PRESIDENT**

Kendra Sveum

Kendra Sveum is a Water/Wastewater Process Engineer with Donohue & Associates in Chicago. She has worked on the design and rehabilitation of treatment plants across the Midwest and is a licensed PE in Illinois. Kendra has a B.S. in chemical engineering and a Master's degree in environmental engineering from the Illinois Institute of Technology. As an undergraduate, she served as the first President of the IWEA Student Chapter. Since then, she has served as the chair of the Young Professionals Committee, is a member of the Student Chapter Committee, served on the WEFTEC Local Arrangements Committee, and was the recipient of the Outstanding Young Professional Award in 2009 for IWEA. She also has several leadership roles with the Water Environment Federation in the Students and Young Professionals Committee, Municipal Wastewater Treatment Design Committee, and Technical Practice Committee.

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The drive is on! IWEA is hoping to reach the 1,000 members by July 30th. However, we need your help!

Please invite your colleagues to join us as a member of IWEA. If they cite you as the referral source on their membership form, you will be entered into a drawing to win an IPAD mini! Prizes at the other level include:

- Recruit 1: Be entered into a raffle to win a pin (20)
- Recruit 3: Be entered into a raffle to win a IWEA t-shirt (10)
- Recruit 5: Be entered into a raffle to win an IWEA polo (5)
- Recruit 10: Be entered into a raffle to win 2 tickets to a White Sox or Cubs game (2)
- Recruit 20: Be entered into a raffle to win a 4 tickets to a White Sox or Cubs game (2)
- Recruit 50: Be entered into a raffle full paid registration to the 2015 WATERCON (1) or IPAD Mini - winners choice
- Grand Prize: IPAD Mini (Anyone that recruits anyone will be entered to win)

Be sure to remind your friends of all the terrific benefits of joining IWEA, including:
- Networking opportunities to build and maintain professional relationships
- Committee involvement to develop skills and foster personal and professional growth
- Discounted registration for educational opportunities, including our seminars, workshops, and conferences
- Discounted registration at WATERCON, Illinois’ premier event for water professionals
- Earn PDHs (professional development hours) and CEUs (continuing education units)
- Access to all conference presentation materials
- Access to the IWEA job bank
- IWEA quarterly newsletter - The Clarifier
- Monthly e-News updates
- E-notices of upcoming educational events
- Low affiliate membership dues (only $15.00)

For more information about the membership drive, visit the IWEA website at iweasite.org.

IWEA will once again be selling “Scholarship” pins at WATERCON. The proceeds from this fundraiser go to support IWEA scholarships. Each year IWEA awards up to $2,000 in scholarships to Illinois college students preparing for careers in the water environment industry. The fund is also used to encourage and support younger students through our Clean Water Awards program at the Illinois Junior Academy of Science, IJAS annual science fair. The pins are $10 and will be available for purchase at the WATERCON Registration desk and the IWEA exhibition booth.

Thank you to Air Diffusion Systems, a registered exhibitor at WATERCON for kicking off this year’s fundraising efforts with an early donation to the fund.

Total Chromium in Illinois Community Water Supplies?

Illinois EPA (IEPA) believes it is very important that we start with a sound understanding and assessment of what we know relative to total chromium in Illinois ground and surface water that is used as a source for public water supplies. They have prepared a fact sheet entitled Assessment of Total Chromium in Illinois Community Water Supplies which references data for drinking water quality for total chromium, as well as source water quality for total chromium from surface water and groundwater sources. Check it out at IEPA’s website, www.epa.state.il.us/water/compliance/drinking-water/publications/chromium-factsheet.pdf.

ASTM Greener Cleanup Standard

On final item that may be of interest to our members: ASTM has published the Greener Cleanup Standard. Here is a website address for the Illinois EPA’s new Greener Cleanups webpage that supports the new ASTM standard www.epa.state.il.us/land/greener-cleanups/index.html.

IWEA Scholarship Fundraiser

IWEA Scholarship Fundraiser

Submitted by Laurie Frieders, IWEA Executive Director

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Drake to 1k!!!

By Frederick Wu, Membership Chair

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For more information about the membership drive, visit the IWEA website at iweasite.org.
<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting/Activity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 19, 2014</td>
<td>IWEA/IWWSG Pretreatment Dinner</td>
<td>The Clubhouse, Oak Brook, IL</td>
</tr>
<tr>
<td>March 17-20, 2014</td>
<td>WATERCON 2014</td>
<td>Springfield Crowne Plaza Springfield, IL</td>
</tr>
<tr>
<td>March 27, 2014</td>
<td>Annual Refresher Course for the Wastewater Collection Systems Operator Certification</td>
<td>Addison Village Hall, 1 Friendship Plaza</td>
</tr>
<tr>
<td>April 15, 2014</td>
<td>Illinois Groundwater Association Spring Meeting</td>
<td>Springfield, IL</td>
</tr>
<tr>
<td>June 5, 2014</td>
<td>T-CON: Midwest Water &amp; Wastewater Technology Conference</td>
<td>College of Lake County, Grayslake, IL</td>
</tr>
<tr>
<td>June 29-July 2, 2014</td>
<td>Enhancing Urban Soils for Living Landscapes</td>
<td>Crown Plaza Hotel, Chicago, IL</td>
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</tbody>
</table>

*Keep your eyes open for these upcoming events!*

Illinois Water Environment Association is a Member Association of the Water Environment Federation dedicated to improving Illinois' surface, sub-surface and atmospheric water. The *ILLINOIS CLARIFIER* is a quarterly publication of IWEA providing pertinent information by, for and about IWEA Members. The opinions contained herein are those of the authors and not necessarily those of the IWEA or the *ILLINOIS CLARIFIER* committee. Copy deadlines are the 15th of January, April, July and October. Direct comments and inquiries to: Illinois Clarifier, Karen Dix Managing Editor; email: ILClarifier@Juno.com; website: [http://iweasite.org/](http://iweasite.org/) Printed on recycled paper. Share with a friend and prospective member, then recycle.