

2009 Joint Water Conference and Expo Welcome to Springfield!

On March 16-19, 2009, hundreds of water and wastewater professionals will gather in Springfield, Illinois to attend the second joint IWEA/ ISAWWA annual conference. Due to the great success of the first joint conference, the IWEA Executive Board voted to partner with the Illinois Section of AWWA to present a joint water and wastewater conference every other year.

The 2009 joint conference is shaping up to be one of the best water and wastewater conferences ever. The ISAWWA is celebrating its 100th anniversary and IWEA is celebrating its 30th anniversary in 2009. Several special events marking these milestones have been planned to occur at the conference. The 30th anniversary of the IWEA will be celebrated at a very special annual banquet that will take place at the Lincoln Museum in Springfield. Prior to the banquet, guests will have the opportunity to take a private tour of the museum. After the tour, a reception hour will give everyone a chance to gather to renew old acquaintances and establish new ones. We will celebrate 30 years of IWEA with a special pictorial slide show and a historical walk down memory lane with a keynote speech by one of IWEA's founding members, Paul Clinebell. IWEA will also honor our special members with the annual awards presentations.

In addition to the banquet on Monday night, there are several other special events planned to allow participants the opportunity to network. The exhibitors' exposition will be one of the largest ever. On Monday, conference attendees may participate in the networking lunch meeting of the Executive Chairs. Adam Zabinski, President of WEF will give a keynote address at this meeting. The IWEA Young Professionals will have a reception later in the day after the technical sessions. On Tuesday, there is an IWEA Member Breakfast with a presentation by Curtis Mann, Manager of the Sangamon Valley Collection, Lincoln Library, on the history and architecture of Springfield. New to the joint conference is a Student Outreach Event that will expose Springfield high school students to the water and wastewater environment. Also, to celebrate 100 years of the ISAWWA and 30 years of IWEA, a water and wastewater artifacts museum will be set up on the conference site.

[Find the important "Winter Safety Tips" on page 8 & 9](#)

and the annual business Board and Committee 2008-2009 Immediate Past

The Program Committee and the Watershed Management Committee have done a fantastic job in putting together an excellent technical program. The conference will kick off on Monday with its second Watershed Management Symposium. The symposium is a forum for watershed managers to transfer knowledge and hear the most up-to-date information on Illinois watershed management issues from government officials. The technical sessions will have papers on water topics, wastewater topics and combined topics. Papers will be presented at 28 different sessions, ranging in subjects from wastewater management and treatment to climate change to emergency planning to legislative, to name just a few.

I wish to acknowledge the hard work of the IWEA Annual Conference, Awards, Local Arrangements, Marketing, Watershed Management and Program Committees as well as Laurie Dougherty of ISAWWA for their excellent work in preparing for this event. Through the work of these committee members, I expect this year's conference to be the largest and most successful yet. I look forward to seeing everyone at the 2009 Joint Water Conference and Expo in Springfield!

KEEP ON SHOVELIN'!



By Kathy Cooper
President IWEA

The wind is howling, the snow blowing, temperatures are plunging (-10° F outside tonight), so I can't help but think of spring when the weather warms up, and we head south to Springfield for the Annual Conference.

The Committees are making final preparations for the March conference that will be held jointly with ISAWWA. This is the second time we have combined efforts for the conference, and we believe that the joint venture will again prove to be a success. In addition to the many seminars and the opportunity to exchange ideas with others, the exhibit hall will have a large number of vendors showing their wares. Please make sure to join us in Springfield.

WEFTEC was a great experience for all who were able to go to Chicago to participate. The highlight for me was Saturday morning for the "Rain Garden" built by the YP and Student organization, with assistance from MWRD. The large turnout of YPs, students, and local residents to build the garden was a model for what can be accomplished when people and groups who all have something

to gain come together for a common purpose. Events like this bring to the forefront what our organization is about. The WEFTEACH workshop was also an outreach to the community to give teachers the opportunity to learn more about teaching the Ten-Day curriculum. I heard many positive comments from the teachers about this opportunity for them to pick up ideas for their careers and professions. Thank you to all IWEA members who made these two events so successful, and to all others who helped at WEFTEC.

According to some headlines, the proposed stimulus package has the potential to make a large amount of money available for infrastructure improvements. One would think that should be great for our industry. However, the water and wastewater industry may not receive a significant portion of the funds; rather they will go to roads, clean energy, and broadband. We have done a great job of cleaning the nation's water, and many in Washington do not understand that, like roads, the wastewater infrastructure is also in need of upkeep – out of sight, out of mind. We all need to do a better job of

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Front page article

By Dennis Prieue, Annual
Conference Committee Chair



RECYCLE!



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*, Heather Wachter, Managing Editor; e-mail: ILClarifier@juno.com; website: <http://iweasite.org>. Printed on recycled paper. Share with a friend and prospective member, then recycle.

DIRECTOR'S CORNER

By Ted Denning, Delegate '10

This is a short article. WEF, with justification, sort of relaxes after the annual WEFTEC conference. The holidays come up shortly after this huge effort and contribute to a reduction in activities.

However, these are interesting times.

As I am writing this (January 14th), I am sitting in air conditioned comfort in southern California, which is experiencing an unseasonable heat wave, while family and coworkers left behind in Illinois are experiencing unseasonable subzero temperatures and record seasonal snowfalls. Meanwhile, the economy is less attractive than raw influent seasoned with landfill leachate (was that my 401k that just went by?). The wave of hope associated with the new president is arriving on the rocky shore of politics.

Economic stimulus packages being discussed hint at vast public works projects which should include funding for many wastewater system rehabs, expansions and upgrades. Other than the mud, this is good news for our industry, but will result in more interesting times on a day to day level.

Meanwhile, the IWEA/ISAWWA Joint Conference & Expo is on the horizon March 16-19, 2009. I am very much looking forward to this meeting, which includes celebrations of the IWEA's 30th and the ISAWWA's 100th anniversaries. One of the principal speakers at the conference will be Adam Zabinski, Past President, WEF. He is an interesting and entertaining speaker.

As Delegates, we are encouraged to participate in House Work Groups throughout the year. The workgroups currently include Image Enhancement; WEF-MA Relationships; Funding, Infrastructure, and Asset Management; and WEFMAX Meetings: - Communicating Value to the Industry. I have been active on the WEF-MA Relationship workgroup and will continue participation. These groups have regular phone conferences and will have meetings at the WEFMAXs and WEFTEC.

Lou Kollias and I will be attending the WEFMAX in Las Vegas on April 23-25. This is also the site of the Young Professionals Summit. We will be representing IWEA at the meeting and will give a presentation. A report on the WEFMAX meeting will be in the next issue of the *Clarifier*.

IWEA/ISAWWA JOINT CONFERENCE & EXPO

MARCH 16 - 19, 2009

**Crowne Plaza Springfield
3000 South Dirksen Parkway
Springfield, Illinois**

To Register, visit www.iweasite.org

See you there!

IWEA CALENDAR OF EVENTS

Date	Meeting/Activity	Location
February 19, 2009	Industrial Pretreatment Dinner	Tuscany Restaurant, Oak Brook
March 16, 2009	Annual Business Meeting	Crown Plaza, Springfield
March 16 - 19, 2009	IWEA 30th Annual Conference	Crown Plaza, Springfield
October 17 - 21, 2009	WEFTEC 2009	Orlando, FL



FROM THE UNDERGROUND

a column about the design, operation and maintenance of collection systems
By Alan Hollenbeck, P.E., B.C.E.E., Collection Facilities Committee Chair

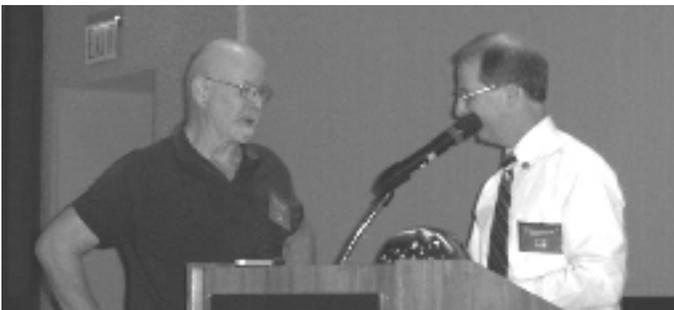
COLLECTION SYSTEMS = TOPIC OF ANNUAL SEMINAR

One hundred and two attendees and exhibitors participated in the Collection Systems Seminar and Exhibition held on November 6, 2008. The annual event was held at the centrally-located Hyatt Hotel in Lisle, Illinois. Participants drove from Wauconda and Libertyville to the north, Naperville to the west, and Oak Lawn to the south to gain additional knowledge about collection system solutions.



Fischer Harris & Associates demonstrates equipment with attendees

The Committee would like to thank our guest speakers, who shared information on the following topics: "Real Men DO Clean, Using High Pressure Water!" by Frank Selvaggi from the City of Naperville and Scott Weets of EJ Equipment; "Slip Lining With Hobas Pipe" by Vince Papparozi of Hobas Pipe; "Collection Systems Emergency Power" by David Tucker of CDM, Inc.; and "Trench Safety: Live By It or Die By It" by David Adler from the Sugar Grove Fire Department.



Long-term Collection Facilities Committee member Mike Jankovic receives a customized hardhat award



Mark Straughn of Naperville has a discussion with Flow Technics

The seminar program included half hour presentations followed by new product demonstrations. A luncheon was then served while attendees mingled with exhibitors, and a raffle was held for a number of great prizes. We would like to thank the 16 exhibitors, many of whom contributed multiple raffle items. Special thanks also go to Dan and Elisa Peterson of GETUM, Inc. for coordinating the exhibits; Laurie Riotte (Fox Metro Water Reclamation District) for her assistance throughout the planning of the event; and Mary Johnson (Rock River Water Reclamation District) for her help with the IWEA web site coordination.

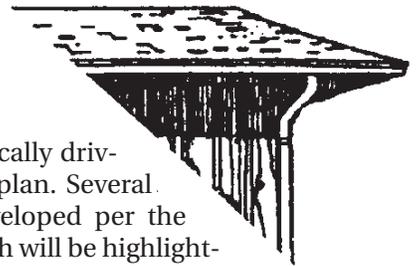
The Collections Committee wishes to thank our 2008 exhibitors and you should, too!

AIRVAC, Inc.	FulLife Safety Center
BakerCorp	Gasvoda & Associates
Clark Dietz	GETUM, Inc.
Dreisilker Electric	Hobas Pipe USA
Motors	Insituform
EJ Equipment, Inc.	Metropolitan Industries,
ELAN Technologies	Inc.
Fischer Harris &	RJN Group, Inc.
Associates	Visu-Sewer
Flow-Technics, Inc.	

The Collection Facilities Committee will soon be planning the 2009 seminar. We hope to see even more attendees and exhibitors there next November! Anyone interested in joining the Collection Facilities Committee should contact Al Hollenbeck at (630) 682-4700.

from the SHED ... promoting the understanding of nonpoint source issues, including storm water and watershed management

By Dan Bounds, Watershed Management Committee Chair



IWEA's Watershed Management Committee continues to be dedicated to collecting and disseminating timely watershed management information. New guidance for developing watershed plans has been developed, which will be highlighted at this year's Watershed Management Symposium on March 16 at the IWEA/ISAWWA Joint Conference in Springfield.

USEPA has recently made available its Draft Handbook for Developing Watershed TMDLs (December 2008). The draft handbook describes the potential environmental, financial, and implementation benefits of developing TMDLs on a watershed scale, and provides practitioners with a series of screening factors that should help determine site specific suitability of the watershed TMDL approach. It also highlights the connections between watershed TMDLs and other water programs, identifying opportunities for integrating watershed TMDLs into other similar water quality management efforts, such as watershed planning, permitting, and water quality trading. The draft handbook is available for review at www.epa.gov/owow/tmdl/techsupp.html.

Illinois EPA and the Chicago Metropolitan Agency for Planning (CMAP) have developed the Guidance for Developing Watershed Action Plans in Illinois (2007). This guidance provides information for creating and developing an effective watershed planning initiative

that will produce a locally driven watershed action plan. Several plans have been developed per the guidance, one of which will be highlighted at the Watershed Management Symposium. The guidance is available at www.chicagoareaplanning.org/watershed/watershed_guide_FINAL.pdf

The agenda for the Watershed Management Symposium has been finalized and includes guest speakers from USEPA, IEPA, CMAP, and well-established Illinois watershed organizations covering topics ranging from national guidance to local watershed data management tools. Please see full agenda details at www.IWEA.org. You should also have received the agenda through IWEA's new Constant Contact email information service. As the symposium is part of this year's joint IWEA/ISAWWA conference, your conference registration for Monday, March 16 registers you for the symposium. Simply register for the conference to attend the symposium.

If you are interested in watershed management topics and would like to join IWEA's Watershed Management Committee, please contact Dan Bounds, Watershed Management Committee Chair, at BoundsDG@cdm.com or (312) 346-5000.

IWEA 2009 WATERSHED MANAGEMENT SYMPOSIUM DURING THE IWEA / ISAWWA 2009 JOINT WATER CONFERENCE AND EXPO

By Dan Bounds, Watershed Management Committee Chair

On March 16 from 9:00 a.m. to noon, during the IWEA /ISAWWA 2009 Joint Water Conference and Expo, there will be an informative Watershed Management Symposium in the Sapphire Room of the Crowne Plaza Hotel & Conference Center in Springfield.

Highlights of the Symposium include: USEPA Perspectives, presented by Chris Urban, Environmental Engineer, USEPA Region 5; IEPA Perspectives presented by Amy Walkenbach, Manager, Nonpoint Source Unit, IEPA Bureau of Water; Watershed management presentations; Guidance for Developing Watershed Action Plans in Illinois and Overview of the Upper Kishwaukee River Watershed Plan presented by Tim Loftus, Chicago

Metropolitan Agency for Planning (CMAP); and Watershed Data Management, Data Needs and Tools Available presented by Stephen McCracken of The Conservation Foundation and Susen Gali, CDM. Following these sessions will be an open forum discussion.

To attend, register for the Joint Water Conference online with credit card or approved purchase order at www.isawwa.org. Single day, full conference, and other registration options are available. Please contact Dan Bounds, Watershed Management Committee Chair at (312) 346-5000 or boundsdg@cdm.com with any questions.



A Look Back...The 2008 Conference was held in Peoria. The Laboratory Committee met in April in Rochelle, August in Oswego, with a scheduled February (2009) meeting in Addison. We had a successful joint Seminar with Central States in Crystal Lake, complete with a full day of speakers and lunch, all for the budget price of \$35.

A Look Ahead...The 2009 Conference will be in Springfield. The booklets are out, be sure and check it out. A few topics worth mentioning...“BOD Measurement Made Easier with LDO Technology,” “Introduction to Nutrient Removal: How It Works in Illinois,” and “MWRD Role in Protecting Public Health and Chicago Area Waterways.” Enjoy the Conference!

I want to say THANK YOU to the Laboratory Committee for their time, knowledge, talents, etc., this past year.

Would you like to be on the Laboratory Committee? We have room for you! We meet three to four times a year, all locations chosen by the committee, and we network after the meetings. Check out the IWEA website for a listing of current members.

GOVERNMENT AFFAIRS UPDATE

By Ted Denning, Delegate, '10 and Kathy Cooper, President

Frank Avalia, Commissioner from the Metropolitan Water Reclamation District (center) is accompanied by Steve Wise, Natural Resource Program Manager (left) and Hal Sprague (right), Senior Policy Associate from the Center of Neighborhood Technology flank at the Governmental Affairs in Water Pollution Control Conference held in Willowbrook on January 28, 2009.



The conference was a success, with 150 + attendees (a record despite morning delays up to several hours due to the morning snow storm) listening to a series of informative and entertaining presentations.

Peter Swenson, representing USEPA Region V, presented a quote from the new EPA Administrator, Lisa P. Jackson.

“...Public trust in the Agency demands that we reach out

to all stakeholders fairly and impartially, that we consider the views and data presented carefully and objectively, and that we fully disclose the information that forms the bases for our decisions. I pledge that we will carry out the work of the Agency in public view so that the door is open to all interested parties and that there is no doubt why we are acting and how we arrived at our decisions.”

Many of us may have been thinking about the stimulus package, and we learned that in its present version, six billion dollars are earmarked for wastewater infrastructure. The funds will be run through the state revolving loan fund, and additional reporting requirements will be a part of the package. There are also concerns about processing the permits for the projects. Mr. Swenson also discussed the timeline for implementation of nutrients limits for POTW's.

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KEEP ON SHOVELIN'!

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making sure the public knows about the positives in our industry. While many of us are seeing a loss of revenue because of the downturn in the economy, we can only hope that the stimulus package will provide us with the opportunity to upgrade and improve our aging systems. Let's all make the effort to do a better job of public relations for the field and to make our voices heard.

Until March and the Annual Conference.... “Keep on shovelin'!”

MAKING IT WORK SO WELL

By Greg Garbs, Plant Operations Committee

Ya know, I was just sitting here, lookin' out the window and wondering, 'How do we make this thing that is called a sewage plant work sooo well?' A little bit of work, some luck, and 'God, We're Good!' Effluents clear and clean, sludge inventory is under control, plant is clean and neat. The only thing missing is either the "City Fathers" or the "Agency" dropping by to admire our work. Shucks, they're not going to drop by today.

The question still keeps nagging at me. 'How do we do it?' I know it's not by the seat of my pants. Good Lord, that would be a wide seat! We got too many spreadsheets and charts and graphs for it to be just luck. How do we do it? It must be the work! Not just the physical effort to keep the plant equipment operating at peak efficiency, but the mental effort to keep the process operating at peak efficiency.

We all know about the physical effort to keep a treatment plant operating. The greasing of bearings, tightening of belts, and fixing the things that need fixing. But do we really give enough mental effort? By effort I mean to really know and understand what's going on. All those operational control equations and design parameters. The design parameter thing is kind of easy to understand. What are design parameters? A bunch of engineers along with several Agency engineers sit around a big table and discuss just what and how the treatment plant will treat the sewage. Just keep the plant in line with the average numbers handed down by those great people and – BINGO! – things seem to work.

But what is that special thing that makes us stand out in the crowd? It's not the uniforms. Good Lord, everybody wears them. It's not the appearance of the plant. Illinois has the cleanest, neatest plants I've ever seen! I wonder if it's that little something extra, that deeper understanding of the plant and how it works. By golly, I think its called INNOVATION! Innovation is that little extra that lets us stand out in a crowd. Let's look at a few examples that I have seen.

What do you do with your sludge judges? Do you just let them lie around on top of the clarifier? Or do you put them in a PVC tube mounted on the handrail? What do you do with the sampler hose? Are they insulated and heat traced in the winter time to prevent freezing? Lord knows we got a lot of that going on. Do you actually use and post those pesky control parameter graphs? Are you even looking at them? What about your monthly reports? Are they neat and organized or just a pile of papers for City Hall to work through. I just finished my annual 503 report, and it's in a binder with dividers and all the supporting documentation included. This seems to keep the Feds happy, as I have not received a nasty gram yet.

How about energy conservation? I am not a believer in manmade global warming. You can believe whatever you wish, and I leave you to your own devices. But a few things to look at that can save you some bucks. Do the mixers on the sludge storage need to be on all the time? Can timers be used to cycle the mixers? How about decant cycles? Can an extra hour be added without the system going anoxic? Our biggest energy saver has been in the Combined Sewer Overflow treatment. We have mixers and course bubble diffusion on the first flush tank. I've found that leaving the mixers off and cycling the blowers cuts on energy usage. Yeah, the tank gets a little dirtier, but hey, that's solids I don't have to deal with in the system. We lime stabilize our sludge for land application. You know the good ol' "Outhouse" technology. I've found that I can cycle the mixers in the storage tanks and even have a little off time thrown in without any side effects. Not all or any of these suggestions may work for you, but it is something to think about.

How about chemical usage? Do you watch your chemical feed units to insure economical operation? Does the chlorine have to be at that level or can it be turned down a little? It may have to be adjusted anyway depending on circumstances but is something to consider. How about other chemical processes, can something be done there?

As you can see, I've only suggested those actions that save big time. Of course, there are little actions you can take such as turning off lights when the room is not occupied. You can replace the incandescent bulbs with fluorescents, but fluorescents are more trouble if you happen to break one. Programmable thermostats in your buildings always help. No need to have the office heated to 70 when nobody is there.

Energy conservation is a good thing that we should all strive to achieve, not just because of the green movement, but because it is the right thing. Who knows, you may just find something that saves you enough for a new truck, a new snow blower or plow.

Remember the upcoming IWEA events. The Annual conference this year will be a combined effort with the ISAWWA in Springfield on March 16-19. There is an IWEA/IWWSG Pretreatment Dinner on February 19 that is supposed to be information packed and the food is good, too! The IAWPCO will have the Annual conference on April 20-23 in Springfield. Fun event for operators and all to attend. The Plant Operations Committee will be organizing the 2009 plant operations seminars. These seminars are beneficial to the plant operator and managers alike. Check the website www.iweasite.org for more details.

WINTER SAFETY TIPS: "PROTECTION BEGINS WITH PREPARATION"

By Mark Termini, Safety Committee Chairman

Although the challenges of operating a wastewater facility during the winter months are many, this article will mainly touch on protecting yourself from the elements and their affects on you. In order to protect yourself and your workforce from the affects of cold weather, you need to prepare for the task at hand, dress for the conditions. Air temperatures do not have to be below freezing to experience hypothermia or even frostbite. Wind speed can influence the effect that temperatures have on your body, and wet clothing contributes to rapid loss of body heat.

Did you know that there has not been a winter in Illinois without a severe winter storm in the past century, and that Illinois, on average, experiences five severe winter storms each year? Did you also know that the average annual snowfall ranges from nearly 39 inches of snowfall in Rockford and Chicago, to as little as 10 to 15 inches in the southern tip of Illinois? And did you know that the coldest temperature on record in the state occurred on January 5, 1999 when the mercury dipped to -36°F near Congerville, located between Bloomington and Peoria?

CLOTHING

Clothing should be worn in multiple layers which provide better protection than a single thick garment. The air between layers of clothing provides better insulation than the clothing itself. Having several layers also gives you the option to open or remove a layer before you get too warm and start sweating or to add a layer when you take a break. It also allows you to accommodate changing temperatures and weather conditions. Successive outer layers should be larger than the inner layer; otherwise the outermost layer will compress the inner layers and will decrease the insulation properties of the clothing.

When working during a snowfall or in blowing snow, outer garments should be tightly woven and water repellent. Clothing must be kept dry whenever possible. Moisture should be kept off clothes by removing snow prior to entering heated shelters. While the worker is resting in a heated area, perspiration should be allowed to escape by opening the neck, waist, sleeves and ankle fasteners or by removing outerwear. If the rest area is warm enough it is preferable to take off the outer layer(s) so that the perspiration can evaporate from the clothing.

Almost 50 percent of body heat is lost through the head. A wool knit cap or a liner under a hard hat can reduce excessive heat loss.

Whenever possible, wear mittens as opposed to gloves. Mittens keep your hands warmer because the fingers maintain more warmth when they are touching each other.

FOOTWEAR

Felt-lined, rubber bottomed, leather-topped boots with removable felt insoles are best suited for heavy work in cold since leather is porous, allowing the boots to "breathe" and let perspiration evaporate. Leather boots can be "waterproofed" with some products that do not block the pores in the leather. When purchasing protective footwear, consider purchasing boots with a composite toe as opposed to those with a steel toe. Steel transfers the cold to your feet more easily. If work involves standing in water or slush, waterproof boots must be worn. While these protect the feet from getting wet from cold water in the work environment, they also prevent the perspiration from escaping. The insulating materials and socks will become wet more quickly than when wearing leather boots and increase the risk for frostbite.

You may prefer to wear one pair of thick, bulky socks or two pairs - one inner sock of silk, nylon, or thin wool and a slightly larger, thick outer sock. Liner socks made from polypropylene will help keep feet dry and warmer by wicking sweat away from the skin; however, as the outer sock becomes damper, its insulation properties decrease. If work conditions permit, have extra socks available so you can dry your feet and change socks during the day. If two pairs of socks are worn, the outer sock should be a larger size so that the inner sock is not compressed. Always wear the right thickness of socks for your boots. If they are too thick, the boots will be tight, and the socks will lose much of their insulating properties when they are compressed inside the boot. The foot would also be squeezed which would slow the blood flow to the feet and increase the risk for cold injuries. If the socks are too thin, the boots will fit loosely and may lead to blisters.

OTHER PROTECTIVE MEASURES

In addition to selecting the proper clothing and footwear for the weather conditions, there are other ways to protect yourself. In preparation for strenuous work, such as shoveling snow, stretch before you go out; this will warm up your body and may prevent injury. Take frequent breaks. Exhaustion or fatigue limits the necessary energy to keep muscles warm. Cold temperatures put an extra strain on your heart; heavy exertion, like shoveling snow, may increase the risk of heart attack. Walk carefully on snowy or icy sidewalks. Take short steps and walk at a

slower pace. When using a snow blower to clear walkways, **never** use your hands to unclog the machine. Maintain steps and walkways. Make sure steps and walkways are cleared and salted or a non slip material, such as sand or road cinders, is applied. Whenever possible, use the buddy system (work in pairs). During the daytime, wear sunglasses to help you see better and avoid hazards. Many safety supply companies offer tinted safety glasses. NEVER enter inside handrails unless you are properly fastened to a lifeline and adequate manpower is available for rescue. Should you slip and fall into a clarifier or other process vessel, you will lose body heat up to 25 times faster.

THE DANGERS: Hypothermia and Frostbite

Hypothermia occurs when the body temperature drops to or below 95°F. Symptoms may include the inability to concentrate, poor coordination, slurred speech, drowsiness or fatigue, exhaustion, uncontrollable shivering followed by a sudden lack of shivering, or cool bluish skin. If you are with someone you suspect of suffering the effects of hypothermia, call for emergency help (911). Move the person to a warm dry area. Do not leave the person unattended. Have the person remove any wet clothing and replace it with warm dry clothing or wrap the person in blankets if available. Warm the person slowly, trunk first, arms and legs last. Arms and legs should be warmed last because stimulation of the limbs can drive cold blood toward the heart and lead to heart failure. Once the trunk is warmed, have the person move their arms and legs to create muscle heat. If they are unable, place warm bottles or hot packs in the armpits,

neck, and head areas. **DO NOT** rub the person's body or place them in a warm water bath, as this may stop the heart! Have the person drink warm sweet drinks (sugar water or sports-type drinks). Avoid drinks with caffeine. Stimulants can cause the heart to beat faster and hasten the effects the cold has on the body. Avoid drinks with alcohol, a depressant, which can slow the heart and also hasten the ill effects of cold body temperatures.

Frostbite is a severe reaction to cold exposure that causes the freezing of layers of skin and tissue. Symptoms include waxy white skin color and the skin becomes hard and numb. Frostbite usually affects the fingers, hands, toes, feet, ears, and nose and can cause permanent damage. If you are with someone you suspect is suffering the effects of frostbite, get the person to a warm area. Cover the affected area with something warm and dry. Do not rub it; rubbing causes damage to the skin and tissue. Gently place the affected area in a warm (105°F) water bath and monitor the water temperature to **slowly** warm the tissue. Don't pour warm water directly on the affected area because it will warm the tissue too fast causing damage. Warming will take about 25-40 minutes. **NOTE:** If there is a chance that the affected area may get cold again, do not warm the skin. If the skin is warmed and then becomes cold again, it will cause severe tissue damage. Seek medical attention as soon as possible.

With some preparation and a little common sense, you can protect yourself from the potentially dangerous effects of a Midwest winter.

GOVERNMENT AFFAIRS UPDATE

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When I came, I did not believe that anyone could make the topic of "Electric Utility Deregulation" interesting to a group of wastewater professionals, but Randy Rogers blew that presumption away! He provided background on deregulation in other states, what worked and did not, and then followed up with information on how deregulation works in Illinois. We all learned something new.

Steve Wise and Hal Sprague of the Center for Neighborhood Technology finished the morning with a presentation of the "Benefits Green Infrastructure." The Center for Neighborhood Technology helped with the YP Rain Garden Project at WEFTEC, and they used this project to highlight what can be done to treat storm water runoff in an urban environment. They presented many other options for "green treatment" of storm water and discussed options for funding these projects.

After lunch, Beverly Stinson's presentation, "Water is the

New Oil." made us think of sludge and wastewater as a new resource. She discussed studies and pilot projects for capturing the potential value of using wastewater as a renewable resource.

To wind up the day, Dave Walters, Illinois EPA presented information on the success of the pharmaceutical pilot projects in Illinois. Dave has been with IEPA for 17 years, and, for the first 16, told all who called the best way to discard medications no longer needed was to flush them down the toilet. Now, of course, we all know that the best way is to take them to a drop-off point provided by the EPA. He talked about the many successful programs within the state and, of course, the problems with funding to keep them going.

Thank you to the Government Affairs Committee for all the work needed to put together such a quality program.

WELCOME TO OUR NEW MEMBERS

By Frederick Wu, Membership Committee Chair

October 2008

Andrew Redetski, Village of Palatine
Avant M. Kavathekar
Bradley Kittilson
Dena Roman
Hossain M. Muyeed-Ul-Azam, University of Illinois
John J. Shaw, Veolia Water North America-Central
Joseph Chen
Mark Williams, ADS Environmental Services
Richard T. Bernard
Xinyu Zhang

Geza Ehrentreu, Viking Chemical Company
Greg Garbs, Streator City WWTP
Jane Kucera, Nalco Company
Jeffery A. Marques
Keith D. Smith, MWRDGC
Mark Bertler, Pentair Water
Mary Ann Dickinson, Alliance for Water Efficiency
Robert J. Henderson
Ryan Miller, Lonza Inc.
Thomas R. Beeching
Yaning Yang

November 2008

Dan J. Wendt, MWRDGC
Edmund U. Okoli
Jiten M. Shah, MWRDGC
Michael K. Muleahy

January 2009

Karen Katamay, Illinois EPA
Daniel Small, Strand Associates
Martin Anthony Page
Priscilla Viana, UIC/ CME Department

December 2008

Andre Dieffenthaler, Malcolm Pirnie Inc.
Dave Dykstra
Debra A. Roe, Christopher B. Burke Engineering, LTD.

SECOND QUARTER FINANCIAL REPORT

By Debra Ness, Treasurer

The second quarter of the fiscal year has kept me busy filing the IWEA annual reports to the IRS and Illinois Attorney General.

IWEA filed the required IRS Form 990, Return of Organization Exempt from Income Tax for the tax year ending June 30, 2008. The Association files this tax return annually under the Federal IRS statutes as a 501(c) (3) tax-exempt organization. A copy of this tax return and the Illinois Charitable Organization Annual Report was filed with the Illinois Attorney General in January.

Arrangements were made to have a formal audit conducted of the IWEA records for the 2007-2008 fiscal year. The audit was started in January. The final audit report should be submitted to the Executive Board prior to the annual meeting.

During the second quarter, IWEA had an income of \$9,631.48 and expenses of \$8271.25. The net gain for the quarter is \$1,360.23.

Financial Statement at the end of the second quarter is:

Bank Accounts

Community Bank	\$55,617.59
Science Fair Fund	\$ 2,862.45

Asset Accounts

12 Month Reserve CD	\$11,301.30
24 Month Reserve CD	<u>\$11,286.77</u>

Total	<u><u>\$81,068.11</u></u>
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STOCKHOLM JUNIOR WATER PRIZE COMMITTEE

By Charles Corley, SJWP Committee Chairman

The Stockholm Junior Water Prize (SJWP) is for high school scholars what the Stockholm Water Prize is for the world's scholars. SJWP, sponsored by Water Environment Federation, is the "world's most prestigious youth award for a water-related science project."

IWEA has long been a proponent of SJWP since its inception. Last fall, we were notified that our bid to host was accepted, and IWEA will host the 2011 Stockholm Junior Water Prize competition in Chicago.

IWEA local arrangements committee for the competition is now organized with Ted Denning as Vice Chairman. Dr. Krishna Pagilla, our future Second Vice President, has accepted the Judges Chairmanship; he will assemble a team of Science Project judges for the 2011 SJWP.

The Coaches Chair is IWEA's Public Education and Student Affairs Chair, Norm Rose. His groups will identify student coaches for the event and coordinate social and introductory events for the student onsite.

IWEA has set aside funds over the next few years to bankroll this activity. Our committee expects to have a budget for MA activities around \$25,000. As a result, one of the most essential committees is fundraising, led by Lou Kollias. However, IWEA needs everyone's help to defray the cost of the event. WEF has made a huge financial investment; IWEA's portion will enhance this invest-

ment and make the science project competition memorable to students from across the US.

Publicity will be coordinated by Ted Denning and (once she's been informed that she volunteered) Marketing Chair Rozanne Ferguson from CMT. A well publicized SJWP competition is essential for many reasons, and it's in good hands.

Local Volunteers' activities will be coordinated by Student Chapters Committee Chair Lou Storino and YP Committee Chair Matt Peyton. They will recruit our IWEA volunteers for work at the event and in anticipation of the event.

IWEA Membership Chairman Fred Wu will coordinate IWEA activities planned to coincide with the competition. These events will provide some of the project visitors at the competition site.

Many of IWEA's best and brightest will be working hard to make you proud of the IWEA host experience, but IWEA has more talent that could be put to good use; each standing committee will be asked to find volunteers to help as we progress toward the competition. Your talent is in demand for this effort, so please contact us! Your reward will be the fun in planning and the sense of accomplishment at the 2011 SJWP Competition itself.

IWEA 2008-2009 COMMITTEE CHAIRS

Annual Conference

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Newsletter

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STOCKHOLM JUNIOR WATER PRIZE JUDGES NEEDED

By Ted Denning, Delegate '10

As the science fair season gets underway, many fair directors will be looking for judges to help award SJWP regional certificates. If you are interested in getting involved and would like to judge at a fair in your area, please contact your SJWP state organizer to make arrangements. A list of state organizers and their contact information is attached. For a list of ISEF-affiliated fairs near you, please visit www.societyforscience.org/isef/students/aff_fairsearch.asp. All fair directors were sent three SJWP certificates to award. Judges should present these to the best water-related projects and encourage the students to enter the state SJWP competition online at www.sjwp.org. Judging resources, such as criteria and promotional materials, are also available online at www.sjwp.org through the "state organizers" link. If you need additional certificates or would like to request certificates for fairs not affiliated with ISEF, please let me know. If you have any questions, please feel free to contact Stephanie Costello, WEF Public Communications Manager at scostello@wef.org. Norm Rose, chair of IWEA's Public Education & Student Affairs, nrose835@sbcglobal.net, is always looking for judges.

WEF'S QUARTER CENTURY OPERATOR'S CLUB

By Pat Schatz, IWEA Awards Committee Chair

Been in the wastewater profession long? Well, if you have been in the wastewater profession for 25 years or more, then you may be eligible to join the WEF Quarter Century Operator Club. The Quarter Century Operator Club recognizes operators of wastewater treatment facilities for their service and dedication in a difficult and dangerous profession.

Eligibility Requirements:

- Member of WEF for a minimum of five consecutive years immediately preceding application
- Significant, full-time participant in the water environment profession for a minimum of 25 years, 10 years of which must have been in active participation in the day-to-day collections, maintenance, operations, laboratory, or management of a wastewater transportation or treatment facility
- Completed and signed application
- Complete and detailed resume of experience

Applications are accepted from WEF Professional Wastewater Operations Members. For more information and the application form, go to the award section at www.WEF.org or contact Pat Schatz, IWEA Awards Chair at pschatz@citykankakee-il.gov or (815) 933-0487.

Hope to see you in Springfield at the conference!

Deadline Next Issue Illinois Clarifier: April 15, 2009



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