

CENTRAL STATES WATER

The Official Magazine of the Central States Water Environment Association, Inc.

82nd ANNUAL MEETING

May 18-21

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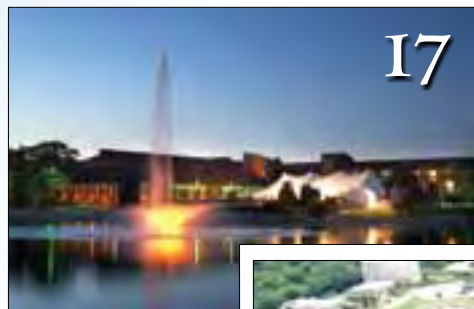
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Troubled Waters?

By Tim Tack

While every news media outlet is trying to convince us the sky is falling, I continue to wake up every morning surprised to see the earth still spinning. In these hard economic times, I am glad to be president of CSWEA, instead of the USA (not that I have any grandiose aspirations). Everyone seems to have the answer on how to rescue us from our current financial woes, but unfortunately their answers are vastly different and no one solution appears to be better than the others. What I do know is irresponsible spending on all sides of the fence got us into this mess and now the government is spending money that we do not have in an effort to get us out of it.

Because we are an instant gratification society, we are quick to blame others for the current mess. We also expect a quick fix. This has paved the way for everyone's new favorite word, "stimulus". There are "stimulus checks", "stimulus plans", "stimulus packages", "stimulus refunds", etc. and all of this is supposed to make things better – we hope.

Not a day goes by where I do not receive several emails regarding the "stimulus package" and "shovel-ready" projects. Hopefully by the time this article prints, everyone is knee-deep in construction and life starts to get better. I have seen the Mayors' List of "shovel ready" projects for Illinois (1,031 at last count) and it could be a crazy year for construction, let alone bidding. The big problem is the latest bill gives "shovel-ready" status to only those projects able to start construction within 90 days, as that is the hitch for making them eligible for funding. As we all know, it is virtually impossible to get sound designs completed in that timeframe, let alone EPA/DNR reviews. Thus everyone is left scrambling to complete designs, so that we are not stuck building a lot of shelved projects. Let's just hope there are enough projects and money left for year two.

CSWEA

While the nation is in financial turmoil, CSWEA is doing well fiscally and otherwise. The Executive Committee has done an excellent job at the association level and the state sections have done equally well, if not better.

This means CSWEA will be able to better serve our members during this time of uncertainty. While everyone at every level is making budget cutbacks, I believe that maintaining, better yet increasing activity in your association, is more important now than ever. Being a CSWEA member gives you access to discounted rates on all of our educational seminars and conferences. You also receive a copy of *Central States Water* (the finest publication of its kind in this region bar none), WEF updates, job postings, and limitless networking opportunities. It also gives you a chance to share your knowledge, get involved, and make a difference for others in our industry and those not as fortunate as us. At the end of the day, helping someone else makes you feel good about yourself.

Water for People

CSWEA ended up raising \$3,600 for Water for People through our Super Bowl raffle/fundraiser. Dan Lynch was the winner of the raffle and he said the experience was awesome. I would like to thank those who purchased tickets as well as those who sold them. Special thanks go to Rich Hussey for selling 20 tickets and for his effort he gets an "attaboy".

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Since the first fundraiser was a success, the Executive Committee voted unanimously to run another raffle. Each of the attendees at the meeting committed to sell at least five tickets, so we are already off to a good start (we do have minutes from this meeting, so I know who you are and I am going to hold you to this).

This year we plan to begin selling tickets a little earlier and to better distribute them throughout the Central States, in an effort to raise a lot more money. Super Bowl 2010 will be held in Miami, so the venue will be nice and the weather will be warm. Thus buy early, buy often, and support this great cause.

2009 Annual Conference

The plans for the 82nd Annual Meeting are finalized and by now everyone should have received and responded to registration requests. Dean Wiebenga and Beth Vogt have been working hard to provide CSWEA members with a worthwhile conference. Beth's committee made sure the technical sessions will cover cutting-edge technology using more energy-efficient equipment to deal with ever stringent regulations as well as tried and true methods of dealing with common problems. Dean's committee has been soliciting exhibitors, setting the budget, planning the outing and entertainment, and making hotel arrangements.

In our spirit of partnering with other organizations, we will be hosting the Fox Valley Operators Association (FVOA) on Tuesday and the Illinois Association of Wastewater Agencies (IAWA) on Wednesday. Having these two groups attend our Annual Conference promises to increase attendance and strengthen our operations portion of the program. I cannot wait until May and I look forward to seeing everyone there. Thanks Beth and Dean for all your hard work.

Year in review

Since this will be my last article as president, I thought I would recap my year to assess whether CSWEA accomplished my goals. My three primary areas of focus were to (1) partner with other organizations, (2) support and expand our students and young professional committees, and

(3) cater some events toward plant operations.

In my year as president, we will have held joint events with the EPA, WWOA, IWEA, FVOA, IAWA, MWOA, and others. At the last Annual Conference, we created a position on the executive board for an S&YP representative. Since then, we have held many YP events, including sponsorship of the student paper and design competitions, supported the local student WEF chapters, and we will be sending our YP representative to the YP Summit at WEFMAX. Finally, to cater to the operators, each state section held several training seminars, Gary Scott launched a plant maintenance certification program (detailed information will be presented at the annual meeting), we increased support for the Ops challenge teams, and we are hosting the FVO and IAWA meetings during our annual meeting. So all in all, mission accomplished. Thank you CSWEA executive board and committee members for all your support and assistance accomplishing these goals.

At the annual meeting in May, the gavel will be passed to Rusty Schroedel from Wisconsin and Jim Miller from Minnesota will be his first vice president. These guys have both been long time members of CSWEA, so the association will be in great hands.

Special thanks

In my opinion, it takes a village to run the association, and many people mentored me over the years as I progressed my way through the executive committee positions. However, **Eric and Anne Lecuyer** deserve special mention as they have worked tirelessly to make CSWEA what it is today. I regularly receive late night or weekend emails from Eric or Anne regarding association business. All of our events, including registration, membership, meetings, etc. run much more smoothly because of Anne's data entry, software purchases, blood, sweat, and tears. (Maybe I exaggerate the blood part, but I am sure she has suffered a nasty paper cut or two.) Please know CSWEA would not be what it is today without their hard work, and be sure to thank them when you see them. [CS](#)

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Time for a Little Optimism

Eric R. Lecuyer



In these difficult economic times, there seems to be little to be optimistic about with the 24-hour news cycle constantly announcing more depressing economic news with an ever increasing crescendo of doom and gloom. Each of us has seen the impact of the stalled economy, in our businesses, at our utilities, and within our families. More and more, we know people severely impacted, with job losses, downsizing and financial stress. It is like a train wreck we can't turn away from and not watch, since we are all on that train. With this background, we were extremely excited to have had the most successful Midwest Water Industry Expo to date, with a near sell-out of exhibitor booths and over 400 (non-exhibitors) in attendance. That is reason for optimism.

WEF Executive Director Bill Bertera offers highly insightful thoughts in an important article later in this issue of *Central States Water*, on "Managing in Time of Crisis", specifically on how associations like CSWEA must think differently to cope with these difficult economic times. Now is not the time for partisan inter-member association bickering nor efforts to limit the prosperity of our association for the benefit of another. Now is the time for cooperation, collaboration and partnering as we seek to provide proven value for our members and supporters.

That is why the timing of our partnerships with two other groups at our 82nd Annual Meeting couldn't be better as the Illinois Association of Wastewater Agencies and the Fox Valley Operators groups will each be joining CSWEA on successive days of the conference. While early in the development of sustained partnerships, we have reason to be optimistic, since these groups, like us, seek to serve their members, regardless of the challenges. With the successful models that we have to follow including our very successful partnership with the Wisconsin Water Association, and the many state section partnerships that have been ongoing for years, we have good reason to be optimistic.

Your association will continue to seek to serve you and provide a good value. So when confronted with that budget question regarding the value of exhibiting, travel and/or training and of attending CSWEA events in particular, you will have reason to be optimistic, knowing that we are seeking to add value and assure that whatever is left of your training/marketing/business development budgets will be wisely spent with your association.

See you at our 82nd Annual Meeting, this May 18-21, 2009 at the Lincolnshire Marriott Resort, in Lincolnshire, Illinois. [CS](#)

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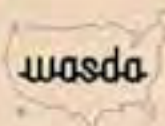
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THE 4TH ANNUAL Midwest Water Industry Expo *Recap*



By Dan Lynch and Dan Duchniak

The 4th Annual Midwest Water Industry Expo is now over and it continues to be a success. After returning to the Kalahari we continued increasing our attendance and also sold more vendor space than last year. We expect this growth trend to continue and are planning to be even bigger next year. If you haven't been to the Expo or you haven't attended recently you are missing a great experience. Plan on attending the 5th Expo next year on February 9-10, 2010 at the Kalahari. You won't regret it.

The Expo was enjoyed by both the attendees and the exhibitors who found the experience to be very productive and valuable. Everyone left looking forward to next year. This year's emphasis was on improving the vendor talk sessions and generating more traffic throughout the exhibit hall. Next year we will concentrate on bringing more equipment into the hall. The Expo is intended to be a means to bring utility personnel (or anyone in this profession) into contact with equipment suppliers

and manufacturers to promote the free exchange of information. Essentially our goal is to bring a quality water and wastewater exposition to the upper Midwest so operators and others can see equipment that they wouldn't normally have a chance to see.

The Expo is the exhibitors' opportunity to present their goods and services to their customers and potential customers early in the year when purchases are being considered and to provide the opportunity for open dialogue with the





vendors for awareness of upcoming projects and utility needs. The 4th Annual Midwest Water Industry Expo has accomplished what it set out to do.

So besides the numerous comments from vendors and attendees alike that the Expo was a hit, here are some facts. The 4th Annual Expo:

- * Held a fundraising raffle that gave away well over \$5,000 in prizes including a 42-inch flat screen television, three smaller flat screen televisions, and many other exciting prizes.
- * Will donate the raffle proceeds, of over \$2,000 to Water for People and Wisconsin Water for the World on behalf of Central States and WWA.
- * Broke the 400 mark for individual attendees (doesn't include exhibitors).
- * 95 exhibit spaces were used.
- * This year's good weather allowed for 75 walk-up registrations.
- * Held 32 half-hour vendor presentations where vendors could talk specifically about the products they represent.

Planning is already beginning for next year's Expo. There are many who make this event a success, too many




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to thank individually, but to all of you many, many thanks. We want to express a special thanks to the vendors who exhibited. These companies put a lot of time and money into events like these and that effort isn't as appreciated as it should be. We are very appreciative of those who exhibited and hope many more will join us next year. The Expo could not be considered a success

without the large number of operators and other water professionals who attended, so thanks to those of you who made time to attend and be sure to come back next year. Be sure to bring a friend.

Finally, the Expo Committee, with a lot of help from WWA's Membership Services Coordinator, Jill Duchniak and Mulcahy/Shaw's Kristina Glocke, did

a tremendous job of pulling everything together. Putting on a show like this requires a committee of volunteers and we would like to thank all of those involved, it is a tribute to the membership of both organizations. Thank you to everyone who came and we hope to see you next year. Please contact anyone on the Expo Committee if you would like to help with next year's Expo. [CS](#)



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Welcome to the 82nd Annual Meeting



Tim Tack, PE
President, CSWEA



Welcome to the 82nd Annual Meeting of the Central States Water Environment Association. We decided to visit a new hotel and resort this year which we hope will build on last year's successful event. You will find the location is convenient and offers many amenities for conference attendees as well as guests visiting the Annual Meeting.

The Local Arrangements Committee, under the leadership of Dean Wiebenga, and the Technical Program Committee, under the leadership of Beth Vogt, have been working very hard to organize a top-notch educational program. The rest of the committee has been working very hard to organize social events and exhibits, so we will have a lot of fun and learn a little along the way.

The exhibits will be over two days and we will be hosting meetings/programs for the Fox Valley Operators on Tuesday and the Illinois Association of Wastewater Agencies on Wednesday. These two groups are sure to boost our operations program and increase traffic for our exhibitors.

Following the success of previous conferences, we will be doing the five-minute vendor talks again this year. Rich Hussey, the exhibits chair, can provide you with details on these popular talks. There will also be the Water for People silent auction in the exhibit hall. All exhibitors, consultants, and individuals are strongly encouraged to donate an item to the silent auction for this great cause.

Recreational options will include the golf outing hosted on the Marriott grounds and the walk/run on some nearby bike paths. Please join us for one or each of these events.

On Thursday, following the Farewell Breakfast, there will be an optional tour of the Lake County Des Plaines River Facility.

As a final note, please bring a new associate or young professional to our 82nd Annual Meeting and introduce them to our great organization and the work we do to protect the environment.

I hope to see you there.



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Conference Highlights

Monday, May 18, 2009

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12:00 p.m. to 5:30 p.m.

Crane's Landing Golf Club (www.craneslandinggolf.com) designed by famed Architect George Fazio, is conveniently located at the Lincolnshire Marriott Resort. Crane's Landing is recognized by *Chicagoland* magazine as one of the top 10 public courses in the greater Chicagoland area. The course is spread over 110 acres of beautiful woodlands and scenic vistas and offers a challenging mix of golf hole, strategic bunkering, and rolling terrain. Registration begins at 11:00 a.m. and your registration fee of \$90 includes green fees and half-cart with GPS, box lunch, a 45 minute PRO Clinic beginning at 12:00 p.m. on the practice green with a 1:00 p.m. shotgun start. Each player receives a complimentary CSWEA Go-Cup, sleeve of logo balls, a

\$3.00 pro shop merchandise certificate, a chance at the sponsored \$10,000 "Hole in One" contest, and individual golf hole contest prizes, all ending in time to attend the Meet and Greet Social Event at the resort hotel.

For golf registration or corporate sponsorship opportunities contact Gary Scott, Golf Outing Coordinator, at 630-790-1901 ext. 124, or gscott@gbwww.org, or visit cswea.org for direct online sponsorship and registration. Rental equipment is available from the ProShop at 847-634-5935.

Meet and Greet

6:00 p.m. to 9:00 p.m.

Renew old friendships and meet new faces on Monday night in the Lake Side Pool Deck or Lakeside Pool Deck Tent at the Lincolnshire Marriott Hotel. Refreshments and light snacks will be provided and awards for the Golf Outing will be announced.

Tuesday, May 19, 2009

Opening Session

9:00 a.m. to 10:00 a.m.

Welcome Address 9:00 a.m. to 9:10

Keynote Address 9:10 a.m. to 10:00

Technical Sessions

10:15 a.m. to 11:45 a.m.

2:00 p.m. to 4:30 p.m.

There will be three (3) concurrent technical sessions A, B & C in the Chaparral Rooms in the morning. The third technical session C will be the Fox Valley Operators Association (FVOA). There will be three (3) concurrent sessions in the afternoon D, E, & F.

Exhibits/Sponsors

11:30 a.m. to 6:00 p.m.

Exhibits showcasing the latest technology in wastewater, collection, treatment and monitoring equipment and other related services will be on display. Vendor talks will be scheduled during the day, see schedule as posted.

Lunch, 12:00 p.m. to 1:00 p.m.

Lunch will be provided for conference participants in the exhibit hall.

Exhibits 1:00 p.m. to 6:00 p.m.

Exhibits will be provided by several companies along with several special vendor talks.

Exhibitor Reception

4:30 p.m. to 6:00 p.m.

Light snacks and beverages will be provided. Please stop and talk to the exhibitors and thank them for attending this year's CSWEA Annual Meeting.

Tuesday Night Social Event

6:30 p.m.

Eskape Bowling Center

The Tuesday Night Social event will be held at Eskape Bowling and Family Fun Center located in Buffalo Grove about 7 miles from the Lincolnshire Marriott. Transportation will be provided to and from the hotel and will run every 15 to 20 minutes. While you eat and bowl you will hear the best music the '70s had to offer. Was there any? Prizes will be awarded for the top two and bottom two bowlers.



Wednesday, May 20, 2009**State Section Breakfasts****7:30 a.m. to 8:45 a.m.**

Please come to your respective state section meeting that will be conducted at the Lincolnshire Marriott. A buffet breakfast will be served. Find out what your state section and committees are doing and how you can be involved. We welcome new faces and new ideas, so all CSWEA members are encouraged to attend.

Exhibits/Sponsors**9:00 a.m. to 12:00 p.m.**

Exhibits showcasing the latest technology in wastewater, collection, treatment and monitoring equipment and other related services will be on display. Vendor talks will be scheduled during the day, see schedule as posted.

Technical Sessions**9:00 a.m. to 11:00 a.m.****and 1:30 p.m. to 4:00 p.m.**

There will be three (3) concurrent sessions in the morning G, H, & J with session J hosting the Illinois Association of Wastewater Agencies (IAWA). In the afternoon there will be three (3) concurrent sessions K, L, & M. These sessions will all be held in the Chaparral Ballrooms.

CSWEA Association Luncheon**12:15 p.m. to 1:15 p.m.**

Mr. Adam Zabinski of the Water Environment Federation (WEF) is the Immediate Past President of the WEF. A member since 1976, he served on the Board of Trustees from 2003-2005, was chair of the Membership Committee, Vice-Chair of the Committee Leadership Council Management Focus Area, and a member of the Utility Management and Long Range Committees. Following Adam's comments, there will be the Golden Manhole Award Induction ceremony and the introduction of the new 75's. Applaud these members as they come up front to recognize their worthiness of belonging to these prestigious and select groups. The luncheon will conclude with introduction of the 2008 Operation Challenge teams.

CSWEA Annual Business Meeting**4:15 p.m. to 5:00 p.m.**

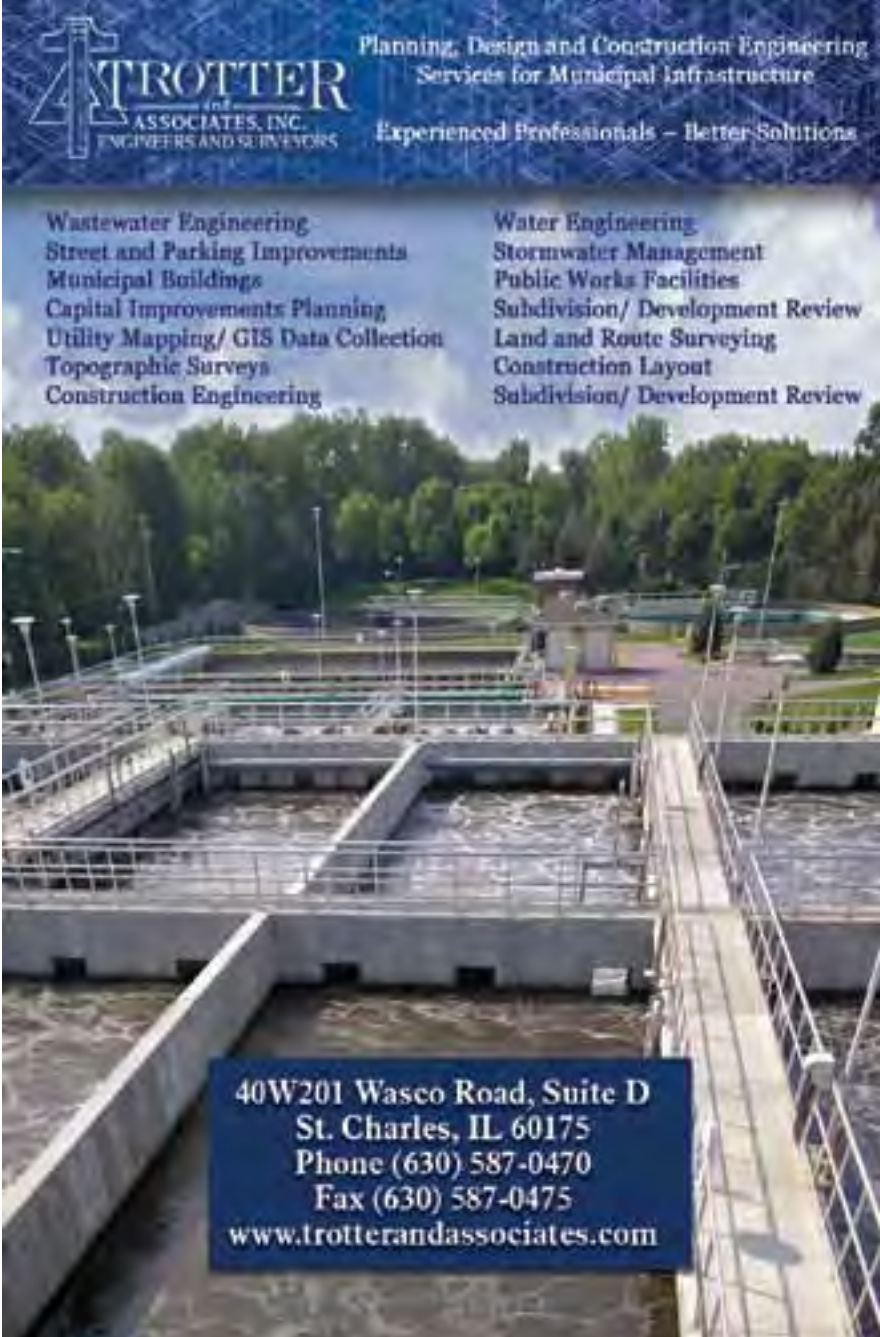
The Annual Business Meeting includes the association, section and committee reports.

Annual Awards Banquet and Entertainment**6:00 p.m. to 9:30 p.m.**

Please join us for the Annual Awards Banquet and Entertainment. Social Hour begins at 6:00 p.m., followed by dinner at 7:00 p.m. Awards will be presented after dinner. Immediately after dinner there will be a dueling piano event you will not want to miss.

Thursday, May 21, 2009**Farewell Breakfast****8:30 a.m. to 10:00 a.m.****Treatment Plant Tour****10:30 a.m. to 12:00 p.m.**

The staff of Lake County Public Works Des Plaines River Facility invites you to attend a plant tour of their award-winning facility.



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WEF Visitor

Adam Zabinski, 2008-2009 Immediate Past President



Adam Zabinski is the 2008-2009 Immediate Past President of the Water Environment Federation (WEF), an international organization

of water quality professionals headquartered in Alexandria, Va.

After serving as First Deputy Commissioner of the Westchester County Department of Environmental Facilities and working for the department for 28 years, he stepped down from that post in 2006 to devote his full attention to WEF activities.

As Deputy Commissioner, Adam was responsible for 13 sewer districts, three water districts and the solid waste and recycling programs for Westchester County, New York. He began his career as a sanitary engineer with Onondaga County, New York.

A WEF member since 1976, he served on the Board of Trustees from 2003-2005, was chair of the Membership Committee, Vice-Chair of the Committee Leadership Council Management Focus Area, and a member of the Utility Management and Long Range Planning Committees.

In addition, Adam has been an active member of the New York Water Environment Association (NYWEA) serving on the board of directors and

as vice-president, president-elect, and president. He currently serves on the NYWEA Scholarship and Humanitarian Assistance Committees and is also a member of the Pacific Northwest Clean Water Association (PNCWA).

Adam is a member of the WEF Quarter Century Operators Club, the NYWEA Select Society of Sanitary Sludge Shovelers and the Golden Manhole Society.

A recipient of WEF's prestigious Arthur Sidney Bedell Award, Adam is a licensed Professional Engineer and a Grade 4A Certified Wastewater Operator in New York State. He received a B.S. in civil engineering from Columbia University and an M.S. in sanitary engineering from Cornell University.

CSWEA Association Luncheon, Wednesday, 12:15 - 1:15 p.m.

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Keynote Speaker

David A. Ullrich

David Ullrich is the Executive Director of the Great Lakes and St. Lawrence Cities Initiative. His responsibilities include working with U.S. and Canadian mayors from across the Great Lakes and St. Lawrence Basin to advance the restoration and protection of the resource. The initiative leads many efforts to accelerate the work to become a more sustainable region by integrating the environmental, economic, and social activities to improve the quality of life and well being of its people.

Prior to assuming his current position, Mr. Ullrich served for 30 years at the U.S. Environmental Protection Agency's Great Lakes regional office in Chicago, working on environmental issues in the six states of the upper Midwest.

He worked in many capacities over the years, including Acting Regional Administrator, Deputy Regional Administrator, Waste Management Division Director, Deputy Regional Counsel, Air Enforcement Chief, and Water Enforcement Attorney. For six years, he was the U.S. Chair of the Water Quality Board for the International Joint Commission, and was a founding member and chair of the Midwest Natural Resources Group. He continues to serve on the Water Quality Board, and in 2006 was appointed by the President to the Great Lakes Fishery Commission. In 1986, he completed a six-month executive exchange assignment with the German Interior Ministry. U.S. EPA recognized Mr. Ullrich for a number of his

accomplishments during his public service career.

Mr. Ullrich graduated from Dartmouth College in 1970 with a degree in English

and received his law degree from the University of Wisconsin Law School in 1973, with an emphasis in environmental law. He is a runner and outdoor sportsman. He is married to Polly Ullrich, an art critic, curator, and ceramic artist, and their son Eric is a student at the University of Illinois at Champaign-Urbana.



Tuesday, 9:00 - 10:00 a.m.

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Technical Program

Tuesday May 19, 2009

10:15 a.m. to 11:45 a.m.

Technical Session A: Aeration Systems

Moderator: Scott Fronek

Aeration System Efficiency Improvements: The Entire System

Nicholas Menninga, *Downers Grove Sanitary District*

High Speed Turbo Blower Demonstration in Franklin, N.H.

William McConnell, *CDM*

Innovative Dual Point Blower Control Technology – Using variable diffuser vanes and variable speed motor to optimize blower efficiency

Amber Roberts, *Turblex, Inc.*

Technical Session B: Collection System and Stormwater Management

Moderator: Steve Reusser

New Technology Radically Improves Collection System Capital Improvement Plans

Mike Canning, *Optimatics*

Private Property Virtual Library: What's the Country Doing?

Emil Cook, *CMT*

Determining When to Begin Addressing Stormwater Management in the Project Development Process

Mark McCabe, *CDM*

Technical Session C: Fox Valley Operators Association

Moderator: Dean Wiebenga

Operations Challenge Experience

Jim Huchel, *City of Crystal Lake*

2:00 p.m. to 4:30 p.m.

Technical Session D: Hydraulics/Instrumenta- tion and Control

Moderator: Jason Benson

Design of a Self Cleaning Trench-Type Wet Well at a New Water Reclamation Facility

James Kerrigan, *Greeley and Hansen*

Field Testing and Evaluation of Plant Hydraulics: A Case Study

Stacy Cooke, *Donohue & Associates, Inc.*

BREAK

Instrumentation and Testing Methods for Optimizing Nutrient Removal

Bob Dabkowski, *Hach Company*

SCADA – Build for the Present and Embrace the Future

Stephen Wrzesinski, *IDCS-LLC*

Technical Session E: Solids Processing

Moderator: Bill Boyle

Startup and Operation of Temperature Phased Anaerobic Digestion at the Fond du Lac WPCP

Kevin Hopkins, *Strand Associates, Inc.*

Caution –Advanced Digestion Processes

Steve Reusser, *Madison Metropolitan Sanitary District*

BREAK

New BioSolids Thermal Drying/ Oxidation Application at City of Buffalo, Minnesota

John Graupman, *Bolton and Menk, Inc.*

Impacts of Biological Nutrient Removal on Solids Processing and Utilization

Gary Shimp, *Black & Veatch*

Technical Session F: Collection Systems/ Nutrient Removal

Moderator: Pavel Hajda

Super-Oxygenation to Prevent Hydrogen Sulfide Formation in a Force Main

David Clidence, *ECO Oxygen Technologies*

Flow Metering

William Moeller, *Metropolitan Council Environmental Services*

BREAK

A Study of Carbon Footprint and Advanced Treatment

Jonathan Butt, *Symbiont*

In the Billions: The Capital and Long Term Costs of Complying with Proposed Phosphorus Criteria

Jane Carlson, *Strand Associates, Inc.*

Wednesday May 20, 2009

9:00 a.m. to 11:00 a.m.

Technical Session G: Nitrification and Nitrogen Removal

Moderator: Beth Vogt

A Dynamic Supermodel: 18 months of Model Validation and Results of a 24 MGD BNR Facility

Brian Karmasin, *CDM*

Cost Effective Nitrogen Removal Using Biological Sidestream Treatment

Roger Gyger, *Mixing & Mass Transfer Technologies, LLC*

A Facility Planning Case Study: Site Specific Discharge Limitations Reduce Cost While Protecting the Environment

Bill Marten, *Donohue & Associates, Inc.*

Parallel Train Membrane Bioreactor Evaluation and Performance

James Hagley, *Donohue & Associates, Inc.*

Technical Session H: Wet Weather Storage and Treatment

Moderator: Bill Boyle

Now is the Time to Seriously Consider Adopting Wet Weather Water Quality Standards

Bart Jones, *Strand Associates, Inc.*

High Rate Clarification of Wet Weather Excess Flows, from Concept to Reality

Jim Fitzpatrick, *Black & Veatch*

Six Months of Continuous Bench Scale Testing: Finding a Process for Treatment of Very Cold Stormwater Containing Deicing Chemicals

Thomas Woodrow, *CDM*

Case Study: Operation and Performance of the Elmhurst Quarry Flood Control Facility during the September 2008 Rainfall Event

Margaret Clark, *Black & Veatch*

Technical Session J: Illinois Association of Wastewater Agencies

Moderator: Nick Menninga

LUNCH 11:00 a.m. to 1:30 p.m.

1:30 p.m. to 4:00 p.m.

Technical Session K: Solids Processing

Moderator: Pavel Hajda

"I Need Another Anaerobic Digester, Don't I?"

A Case Study at the Rantoul, Illinois Wastewater Treatment Plant

Joe Pisula, *Donohue & Associates, Inc.*

Conditions that Led to Anaerobic Digester Foaming and Overflow

Jim Huchel, *City of Crystal Lake*

BREAK

The Fate of Antibiotic Resistant Bacteria in Thermophilic Anaerobic Digestion

Dave Diehl, *University of Minnesota*

Bioaugmentation for Recovery of Anaerobic Digesters after Organic Overload

Viabhav Tale, *Marquette University*

Technical Session L: Miscellaneous Treatment Issues

Moderator: Jason Benson

Advances in Reclaimed Water Quality Support Supply Augmentation

Don Vandertulip, *CDM*

Port of Milwaukee Off-Ship Ballast Water Treatment

Julie McMullin, *Brown and Caldwell*

BREAK

Disinfection

Requirements for an MBR Effluent

Eric Meester, *Donohue & Associates, Inc.*

Moving Bed Bio Reactor Increases Capacity for Industrial Treatment at the City of Manawa, Wisconsin

Phil Korth, *Foth Infrastructure and Environment, LLC*

Technical Session M: Management

Moderator: Scott Fronek

Wiki-Based O&M Documentation System Installed at the Madison Metropolitan Sewerage District

Matt Allen, *Madison Metropolitan Sewerage District*

Effective Utility Management-A Primer for Water and Wastewater Utilities

Thomas Sigmund, *Green Bay Metropolitan Sewerage District*

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Innovative Approach for Industry to Pay Their Fair Share: A Case Study

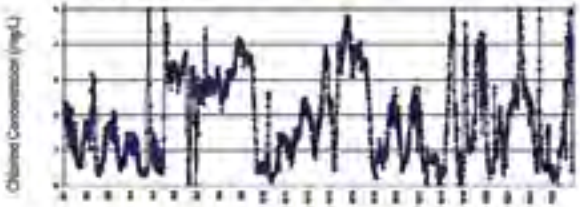
Kenneth Sedmak, *Donohue & Associates, Inc.*

A Facility Planning Case Study: SIU Rate Increases Provide Cost Effective Capacity for Growth

Mike Gerbitz, *Donohue & Associates, Inc.*



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Conference Schedule

Registration Hours		
Monday, May 18, 2009	Lincolnshire Marriott Resort	3:00 pm to 5:00 pm
Tuesday, May 19, 2009	Lincolnshire Marriott Resort	8:00 am to 5:00 pm
Wednesday, May 20, 2009	Lincolnshire Marriott Resort	8:00 am to 5:00 pm
Monday, May 18, 2009		
Executive Committee Meeting	Lincolnshire Marriott Resort	8:00 am to 11:30 am
Golf Outing	Cranes View	12:00 pm to 6:00 pm
Meet and Greet Social	Lincolnshire Marriott Resort	6:00 pm to 9:00 pm
Tuesday, May 19, 2009		
Exhibitor Display Set-up	Lincolnshire Marriott Resort	6:00 am to 11:00 am
Past President/AAEE Breakfast	Lincolnshire Marriott Resort	7:30 am to 9:00 am
Walk/Run	Lincolnshire Marriott Resort	7:30 am to 9:00 am
Conference Welcome	Lincolnshire Marriott Resort	9:00 am to 10:00 am
Keynote Address	Lincolnshire Marriott Resort	9:00 am to 10:00 am
Technical Sessions CS/FVOA	Lincolnshire Marriott Resort	10:15 am to 11:30 am
Exhibitor Luncheon	Lincolnshire Marriott Resort	11:30 am to 1:00 pm
Exhibits Open	Lincolnshire Marriott Resort	11:30 am to 6:00 pm
Technical Sessions	Lincolnshire Marriott Resort	2:00 pm to 4:30 pm
Exhibit Reception	Lincolnshire Marriott Resort	4:30 pm to 6:00 pm
7S Meeting	Lincolnshire Marriott Resort	4:30 pm to 5:00 pm
Golden Manhole Society	Lincolnshire Marriott Resort	5:00 pm to 5:30 pm
S & YP Meeting	Lincolnshire Marriott Resort	5:00 pm to 5:30 pm
Social Event	Eskape	6:30 pm to ??? pm
Wednesday, May 20, 2009		
Section Breakfasts	Lincolnshire Marriott Resort	7:30 am to 8:45 am
Exhibits Open	Lincolnshire Marriott Resort	9:00 am to 11:45 am
Technical Sessions CS/IAWA	Lincolnshire Marriott Resort	9:00 am to 11:00 am
Break	Lincolnshire Marriott Resort	11:00 am to 12:00 pm
CSWEA Luncheon	Lincolnshire Marriott Resort	12:00 am to 1:15 pm
Technical Sessions	Lincolnshire Marriott Resort	1:30 pm to 4:00 pm
Student Paper Session I	Lincolnshire Marriott Resort	1:30 pm to 4:00 pm
CSWEA Business Meeting	Lincolnshire Marriott Resort	4:15 pm to 5:00 pm
Banquet Social Hour	Lincolnshire Marriott Resort	6:00 pm to 7:00 pm
CSWEA Awards Banquet	Lincolnshire Marriott Resort	7:00 pm to 8:30 pm
Banquet Entertainment	Lincolnshire Marriott Resort	8:30 pm to 9:30 pm
Thursday, May 21, 2009		
Farewell Breakfast	Lincolnshire Marriott Resort	8:30 am to 10:00 am
Executive Committee Meeting	Lincolnshire Marriott Resort	10:00 am to 12:00 am
Plant Tour	Lake County Des Plaines	10:30 am to 12:00 pm

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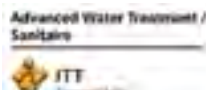
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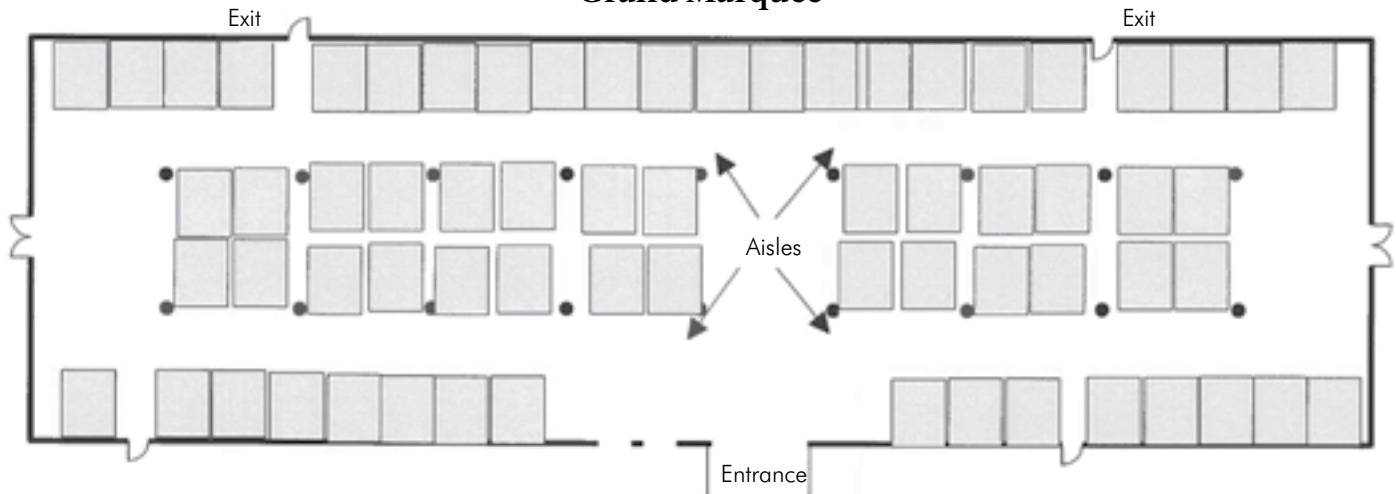
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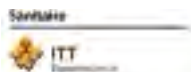
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CSWEA

Executive Committee Nominees

BETH VOGT

2ND VICE PRESIDENT NOMINEE



Beth Vogt has been nominated for the position of 2nd Vice President. Beth has been an active member of CSWEA since 1996, starting out as secretary/treasurer of the Illinois Section and serving on

the Annual Conference Local Arrangements committee. She has also served as Illinois Section Chair, Illinois Section Trustee, Annual Conference Technical Program Committee (current Chair), Education Seminar Committee member, and Illinois Section Students Committee.

Beth received a bachelor's degree in Civil/ Environmental Engineering from the University of Wisconsin-Madison and a master's degree in Civil/ Environmental Engineering from Purdue University. In 1994, Beth joined Greeley and Hansen in Chicago as a consulting engineer, and is currently an associate with the firm, serving municipal wastewater and water clients in the Midwest. During her career, Beth has been involved in the planning, design and construction of a wide range of projects in support of the water environment.

CAROL S. STRACKBEIN

TREASURER NOMINEE



Carol Strackbein has been nominated for a second term in the position of Treasurer.

Carol recently formed CSS Consulting, LLC. This company specializes in organizing special events for businesses

including special meetings, entertainment functions and conventions. Prior to this endeavor, Carol was employed by ITT Sanitaire in the position of Sales Administration Manager. This position included aftermarket sales, customer service, order processing and planning special events for Sanitaire.

Carol has served on the executive Committee as President, Past President and the Vice President Positions and has completed one term as Treasurer. She was also the Wisconsin Section Trustee.

Carol has also been active in the WWOA (Wisconsin Wastewater Operators Association) and has served as this organization's President. She has been a recipient of this organization's Service Award.

CHARLIE LA ROCCO

PWO REPRESENTATIVE NOMINEE



Charlie La Rocco has been nominated to the position of Professional Wastewater Operators Representative to the CSWEA Executive Committee. Charlie will serve a two-year term. Charlie has been an active member of

CSWEA for several years and served on the Operations Challenge teams several times, most recently as Team Captain of the Shovelers in 2007.

Charlie is an Electrician and Instrumentation Technical with the Water and Wastewater Division at the City of Elmhurst, where he has been employed since 1992. Charlie is responsible for the purchase, installation and maintenance of all electrical equipment at Elmhurst's wastewater facility, ten sanitary lift stations, 11 storm stations, three elevated storage tanks and three potable water storage and transmission facilities. Charlie has significant experience in setting up and optimizing the city's SCADA systems and in providing training to division operators and personnel. With Charlie's past experience on the Operations Challenge teams, and his professional experience, he will provide great leadership for the association's operators and will be a great addition to the CSWEA Executive Committee. [CS](#)





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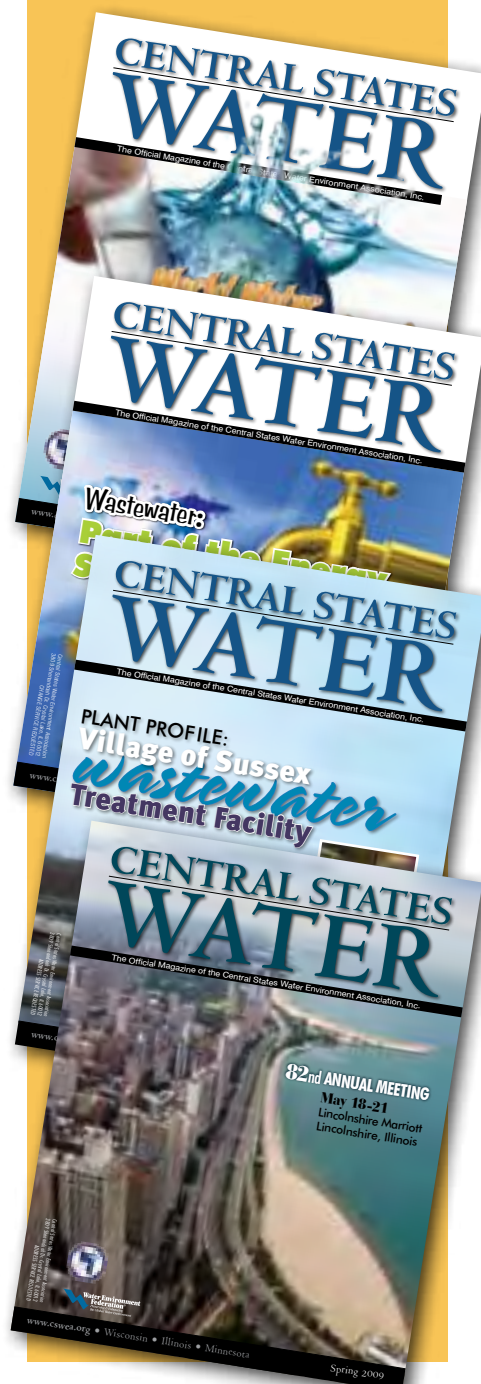
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By Mitch Patterson, Superintendent of Public Works

The Addison North Wastewater Treatment Facility is located in DuPage County, IL and is one of the two municipally owned and operated treatment facilities treating residential, industrial, and commercial wastewater for the Village of Addison.

Although the North Facility first came on line in 1969, Addison's commitment to clean streams and water dates back to the 1920s when the first wastewater treatment plant, Imhoff Treatment with drying beds went on line for the 200 or so residents. In the many years since the first wastewater treatment facility went on line, Addison has seen growth to over 40,000 residents, hundreds of commercial establishments and over 1,100 industrial users making Addison the fourth largest industrial base in Illinois. Due to the large industrial base,

Addison established an award-winning USEPA Industrial Pretreatment Program to aid in the monitoring of the industrial facilities, food and commercial establishments.

Addison's facilities have also grown through the years, currently operating two advanced activated sludge facilities treating a designed daily average flow of 8.5 MGD and wet weather flows in excess of 40 MGD. Addison has about 10 miles of combined sewers in conjunction with the 120+ miles of separated sewers and operates combined sewer overflow treatment systems during wet weather flows to treat and disinfect the combined sewage discharges.

With the 1988 expansion completion, the Addison North Facility increased its designed treatment to an average flow of 5.3 MGD with a maximum flow of 7.6 MGD during storm flows. Additional excess flows of up to 15 MGD are treated through the excess flow facility.

Dry weather flows pass through mechanically raked bar screens, each with a debris capacity of 60 lb/h, then through an aerated grit chamber with a bucket elevator and a grit washing unit capable of removing and washing grit up to 15 ft³/h. Debris from these units are conveyed to a "Muffin Monster" for additional organics washing and compaction. Raw sewage flows continue to two wet wells feeding the

four, 40hp, vertical, non-clog centrifugal variable frequency raw wastewater pumps.

Three 63-ft-diameter center feed circular primary clarifiers provide settling and flotation conditions for settleable solids and floatable solids removal. Four continuously operated, positive displacement, air-operated diaphragm pumps pump the primary solids to the anaerobic digesters.

Four first-stage aeration basins utilize full floor cover, circular ceramic fine-bubble diffusion to provide oxygen for biological treatment, followed by three 65-ft-diameter peripheral flow intermediate clarifiers. The effluent from those clarifiers is pumped to the second-stage aeration basins, also with full floor cover,

circular ceramic fine-bubble diffusion for additional biological treatment and for the reduction of ammonia-nitrogen. Four 65-ft-diameter peripheral flow final clarifiers allow for settling of second stage flows. WAS from both stages of aerobic treatment can be sent to either the aerobic digester which is divided into four quadrants or the three anaerobic digesters. Two mesophilic anaerobic digesters operate as primary digesters, each with gas holding covers and the third operates as a secondary unit. The anaerobic digesters have gas mixing equipment and floating covers for gas storage. In addition, anaerobic solids from Addison's second facility, the A.J. LaRocca Facility, are transported by tanker to Addison North and admixed prior to dewatering. Solids are removed using two two-meter belt presses. Solids removed by belt press operation are land applied as per 40CFR503 Regs.

Effluents from the second stage clarifiers flow to the chlorine contact zones for disinfection, then de-chlorinated prior to discharge to Salt Creek. Excess flow (storm flow) treatment consists of a first flush tank to capture the higher concentration pollutants found in the collection systems after prolonged periods of low flow. This waste is aerated with the use of aspirators and slowly returned to the headworks after flows return to normal. Additional excess flow equipment consists of a flocculation chamber for chemical addition to aid settling; a clarifier with positive displacement air-operated diaphragm pumps for solids removal. Flows from this operation admix with "full treatment" flows prior to disinfection.

There have been several in-house upgrades to the facility since the 1988 startup. In order to reduce electrical consumption and improve treatment efficiency, the facility replaced its existing fine-air diffuser sheaths and equipment in all aeration basins (Phase 1) with full floor ceramic discs, then the aerobic digester (Phase 2) with total floor cover fine-air tubular membrane, sheath type diffusion. The facility realized reduced electrical consumption to allow for a payback in less than five (5) years.

Addison's laboratory performs all NPDES parameter and IPT sampling and analysis in-house. Testing and analysis include metals, cyanide, FOG, and digester analysis. Microscopic analysis and mapping of the aeration zones are also performed by laboratory staff to baseline

NPDES #IL0033812 DISCHARGE LIMITS:

Parameter	Permit Limit	Permit Maximum	Actual Averages
Flow MGD	5.3 MGD	7.6 MGD	3.938 MGD
CBOD	20 mg/l	40 mg/l	2.4 mg/l
TSS	25 mg/l	45 mg/l	4.9 mg/l
NH ₃ -N Apr-Oct	1.5 mg/l	3.0 mg/l	0.078 mg/l
Nov-March	4.0 mg/l	8.0 mg/l	0.097 mg/l
CL ₂ Residual	0.05 mg/l	0.05 mg/l	0 excursions
Fecal Coliform	400/100ml	400/100ml	0 excursions

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The facilities use a detailed, wall mounted, PMO (Preventive Maintenance Operation) program to schedule maintenance, and identify problem equipment. This facility maintains detailed reports of maintenance performed, along with the true cost of equipment maintenance and repairs, history-to-date. The North Facility has not experienced unscheduled downtime on equipment since startup in 1988.

Addison has a very aggressive safety program. A safety committee consisting of members from each Public Works Division and a divisional supervisor meet monthly to plan and schedule training, bring attention to potential dangers and recommend corrective action, review current safety practices for effectiveness in preventing injury or loss, and review and categorize accidents and incidents. The wastewater facilities have operated for over 4,500 consecutive days, over twelve (12) years, without a lost-time accident, an accomplishment that could not be possible without an effective safety program and dedicated safety-conscious employees.

Facility personnel have presented several talks and papers referencing operational challenges within the facilities which have included public service announcement programs regarding the operation of the facility, and proper FOG containment and disposal. Technical sessions have been presented at various operator organizations including: screening washer/compactor operation and maintenance, Addison's Industrial Pretreatment Program, operation of the pump and dam screening equipment, clarifier modifications during daily operations and cost analysis/buy back of the fine air projects. In addition, the North Facility conducts tours for local grade schools, high schools, colleges, trade schools, and various organizations.

Addison is a member of the DuPage River/Salt Creek Watershed Workgroup and is working in conjunction with group members and the IEPA to identify pollutants and treatment options for point source and non-point source discharges in the TMDL implementation program.

During the last NPDES Permit review

metals translator studies were performed in-house on the upstream and downstream receiving streams and effluents to provide the IEPA valuable background information and scientific based knowledge of metals uptake for the calculations of NPDES effluent limits.

Multiple staff members are currently involved in statewide operational organizations such as IAWPCO, (president, regional board member, and committee members) IWEA, (committee members) and various local groups.

Environmental Services prepares a

detailed annual budget and report. The budget includes revenue sources, detailed planned expenditures, capital improvements, and a five year detailed budget program. [CS](#)

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2009 CSWEA/WEF Student Paper & Design Competition



By Beth Vogt
CSWEA Student
Committee Chair


I would like to introduce you to the Student Design and Student Paper Competition sponsored by CSWEA. The Student Design Project and Student Paper selected at the CSWEA level will ultimately compete at WEFTEC '09 in Orlando, Florida. This year, the CSWEA competition for both events will be held on the **afternoon of April 6, 2009**, the day before the CSWEA Education Seminar at Monona Terrace Convention Center in Madison, WI. This is a great opportunity to participate in the competitions and attend the education seminar the following day.

The Student Design Competition and the Student Paper Competition are described in more detail on the attached fact sheets and at the WEF website link noted in the fact sheets. This is a unique opportunity for students at the college level to demonstrate their engineering skills and practices by researching and preparing a design for an actual water quality-based project or preparing and presenting a research-based paper. It is an excellent networking opportunity between students and professionals in the water quality field. The competition at the CSWEA level is designed to feed into the national competition at the annual WEFTEC conference, which this year is scheduled for October 10-14, 2009 in Orlando, Florida.

Both the Student Design Competition and the Student Paper Competition are designed to be functions of the WEF Student

Chapters program. We understand that you may not have a WEF student chapter at present. A student chapter is not required to compete for CSWEA. WEF requires students to have a WEF student membership to participate at WEFTEC; however, CSWEA does not require it to participate in either of these two events at the local level. CSWEA will provide student membership enrollment in WEF for teams/individuals who are selected to represent CSWEA in October.

The state sections have budgeted funds to assist individuals or teams from their state to present at the CSWEA competition event in April. We understand it is hard to schedule students to participate and will be as flexible as possible in working with you and your students to afford the opportunity to participate on April 6. Design projects and papers from first semester are eligible along with design projects or papers that are being developed as part of a second semester class. Please read over the fact sheets on both opportunities and provide this information to any of your full-time students in the water quality field who you feel may benefit from such an experience.

I look forward to hearing from you with any questions you may have or if you need additional information on how to participate in either of these two events. I can be contacted by phone at (312) 578-2321 or email at bvogt@greeley-hansen.com. 



Third Place Student Design
Team at WEFTEC '08 from the
University of Wisconsin, Madison.
L-R Joe Klett, Jonas Balistreri, Chanel
Kass, Tracy Cadkin and Advisor Jay Park.

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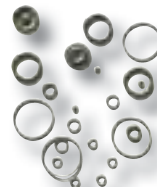
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Managing in Times of Crisis

By Bill Bertera, WEF Executive Director

The recession that took so long to be recognized as a recession is now universally acknowledged. The country and the whole of the world are caught up in it and there is no avoiding its consequences. For those of us in the association world, the outlook is not encouraging. We are often at the end of the service chain and for hard pressed companies, utilities, governments and individuals, we often constitute discretionary spending – spending that can be interrupted for a time until things get better.

Of course, that may or may not be the case. The best associations provide training, education and other services that are even more important in difficult times because they help our members weather rough roads, and when the recovery comes, as it will, the skills we sharpen will be more important still. But for now, we in the association world need to hone our services to the most essential, trim our expenses, improve our management and service while anticipating decreased revenues as we do so.

The dilemma is classic. Everything is connected. Crisis in the financial markets affects the availability of credit, credit restrictions affect investment and lending, companies cut back production and lay off workers in response to decreasing demand from consumers, and tax revenues from all sectors decrease because income and sales are down in the private sector economy. Even services like water and sanitation are not immune from global economic dislocations and neither are the associations which serve them.

This recession is not going to be like anything most of us have ever lived through. It will be longer, more severe and pervasive than anything since the 1930s and we need to understand and accept that. Hunkering down and waiting for it to pass us by will not work. Business as usual will not work because the usual does not exist any more. Everything has changed and it is unlikely that what we once thought "normal" will ever be again. We need to start thinking very differently about everything including the traditional linkages between members and their associations.

The Water Environment Association is looking ahead. Although we began our fiscal year with a record-breaking WEFTEC in Chicago, have enviable cash flows and extensive financial reserves, we do not expect that this recession will pass us by either. We are trimming expenses in anticipation of revenue decreases; honing our services and doing all those things that well run organizations do in times of trial. But that is not enough.

The WEF Board of Trustees has adopted a set of financial and management guidelines we will use in managing WEF in the coming years. The guidelines set a very high standard on service, provide for continued investment in programs and services that address our core mission and the needs of our members. They also dictate solid fiscal management regardless of other considerations. An organization that is not running in the "black" cannot have the resources to pay attention to its business nor can it fulfill its mission.

An important and critical underlying assumption to the guidelines is the

understanding that what happens to our members also happens to WEF. The health of the community reflects itself in our membership numbers, attendance at conferences, exhibit and advertising sales and so on. The same is most certainly true for state and regional associations, but perhaps not in just the same way. Travel restrictions may work to the advantage of local organizations while overall spending

cuts by companies and utilities curtail membership, exhibit and sponsorship fees.

Each of our organizations needs to take a close look at what we do, who we do it for and how we do it. Managing associations in time of crisis is always a dicey thing, but not undoable. We just have to be smarter, work more closely together, be willing to do things differently, and to take reasonable risks. **CS**

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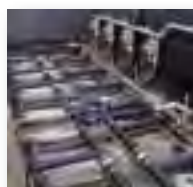
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Maintenance and Infrastructure

Best practices take on demand

By Gary Scott, CPMM, Program Coordinator,
Voluntary Plant Maintenance Technologist Certification Program

The intertwined web of systems that allow the common American to carry out his/her daily life can be summed up in one misunderstood and not often spoken word: **infrastructure**. Infrastructure seems a very simple thing when you reduce it to its main purpose – transporting utilities or objects between two separated points.

No critical infrastructure is self-sufficient. The complexity inherent with the interdependent nature of infrastructure systems complicates planning and preparedness for system failures. Wide-scale disruption of infrastructure on the Gulf Coast due to catastrophic weather, in the Northeast and Southwest due to electric power network failures, and with Midwest highway bridge failures dramatically illustrate the problems associated with the effects and responding to cascading infrastructure failures once they have occurred.

While the water/wastewater utilities are responsible for safe water and waste treatment including the operation and maintenance of distribution infrastructure, other agencies including public health regulators, medical practitioners, and first responders (e.g., police, fire, others) also play a pivotal and active role when dealing with the impacts of infrastructure failures on their community. There have been a number of visible and devastating infrastructure failures which have brought national media attention and political pressure to bear on this nearly invisible issue. We cannot forget the photos and gut-wrenching personal feelings for those who lost their lives in the hurricanes of the past years (Camille, Katrina), and the collapse of the I-35 bridge in Minneapolis. Perhaps these horrific incidents will be a catalyst for dramatic action.

As many will acknowledge, the building of water and wastewater infrastructure transformed our society. The investment made as a result of the Clean Water Act launched a new generation of water pollution prevention and control in the mid '70s. Those gains are threatened by the declining level of investment by federal, state and local governments. When you add to this the fact that sewer and water rates have never reflected the true cost of service, most of our utilities are faced with lagging finances for costly infrastructure upgrades to address deteriorating infrastructure, more stringent regulatory requirements, and increased political infighting for revenues. Of the \$787 billion stimulus bill signed into law by President Obama in Denver on February 17, states will divide \$27 billion to **build and repair roads and bridges**. That is less than half the \$64 billion in projects states told the government late last year that they had ready to go, and only a trifling amount compared to the infrastructure related to water and wastewater.

The 2004 EPA Infrastructure Gap Analysis stated that "In 10 years, water pollution levels may deteriorate to those observed in the 1970s if we do not invest in our infrastructure."

We in water and wastewater must be acutely conscious that our industry faces an ever-increasing level of physical construction, renovation, and replacement of aging and failing infrastructure. The *Water Is Life and Infrastructure Makes It Happen* program continues to expand with a variety of new tools being introduced by WEF. A 90-minute documentary film entitled *Liquid Assets* has been airing on local PBS stations and a 16-minute overview can be accessed at <http://liquidassets.psu.edu/overview>. We need



consistently to bring this message out to our communities. As Mr. Tim Williams, WEF Managing Director of Governmental Affairs noted in part at our 79th Annual Meeting:

*"The very systems responsible for providing us with clean and safe water are at or near the breaking point. Simply put, the pipes and pumps that do the job under our streets and in our facilities – infrastructure – are getting older and falling apart. The last national initiative to improve our facilities was over 34 years ago, and those gains are in danger. The Congressional Budget Office estimates that **\$485 billion - \$1.2 trillion** is needed over the next 20 years to make the necessary improvements across the country."*

This statement disguises the true essence of the need. Things have certainly not gotten better since 2006. The major challenge associated with these system needs is that they transcend system, municipal, and political boundaries and necessitate coordination among multiple, disparate experts and authorities. The solutions

rely on bringing together concerned communities including government, industry, technical, and policy principals with experience in such infrastructure failures. These solutions must be designed to include **best practices** for avoiding and responding to failure created by natural, accidental, or malicious infrastructure debilitation.

Relating to the best practices aspect, the Water Environment Federation (WEF), in cooperation with the Association of Boards and Certification (ABC), has developed a **Voluntary Plant Maintenance Technologist Certification Program** for drinking water and wastewater plant maintenance personnel. CSWEA is excited at having been accepted as a Charter ABC member in this new program.

This new maintenance certification program was created to offer multi-level technical certification for individuals employed in the water quality field, whose work functions specialize in disciplines other than plant operations. Effective plant maintenance is a key component to every treatment facilities commitment to compliance, and this program is designed to cover all facets of treatment plant maintenance from entry-level (Class I) competence, to supervisory-level (Class IV) personnel involved in maintenance, electrical, instrumentation, and equipment system selection and design. CSWEA as an ABC member will have the opportunity to offer Voluntary Plant Maintenance Technologist certification in its WEF Member Association Sections of Illinois, Minnesota, and Wisconsin.

As we work to complete our application procedures, a candidate handbook, testing schedules and other necessary administrative procedures, we anticipate voluntary certification will be available through CSWEA beginning in the spring of 2009. Look for more information soon on the website <http://cswea.org> and at the upcoming 82nd Annual Meeting, May 18-21, 2009, at the Marriott Lincolnshire resort, Lincolnshire, Illinois. [CS](#)



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WisWARN is OPERATIONAL

Why haven't you joined yet?



By Dan Lynch, Chair, WisWARN Implementation Committee

Events such as 9/11 and Hurricane Katrina in 2005 identified a need for water and wastewater agencies to create intrastate mutual aid and assistance programs. The Wisconsin Water/Wastewater Agency Response Network, known as WisWARN, was created to provide a network of utilities helping utilities with personnel and resources for natural and human-made disasters. In the past year we have had flooding, tornadoes, extreme snowfalls and exceptionally cold weather. Wisconsin does not have hurricanes, but we have our own emergencies.

WisWARN is based on active water and wastewater response networks operating in California, Florida, Texas, and more than 30 other states. WisWARN's mission is to support and promote statewide emergency preparedness, disaster response, and mutual assistance for public water and wastewater agencies for both natural and human-made events. The establishment of a Mutual Assistance Agreement among a network of Wisconsin utilities will help ensure their continuity of operation and the wellbeing of your community. Such networks are a core principle of the National Preparedness Goal

developed by the Department of Homeland Security. States with organized emergency readiness response plans and mutual aid agreements are much better prepared and



Lake Delton, WI, June 23, 2008 – Houses fall into the emptied Lake Delton as the side banks collapse. Rains created flooding and a dam break which caused the lake to drain. Robert Kaufmann/FEMA



Spring Green, Wisconsin, July 22, 2008 – FEMA Operation's Chief for Wisconsin Steve Bolton, shows FEMA's Federal Coordinating Officer for Wisconsin a list of approximately 19 surrounding homes in the Township of Spring Green that were flooded five weeks earlier and remained uninhabitable. Sewage and infectious algae growth have become a major problem in this particular housing development. FEMA/Walter Jennings

able to respond when a disaster occurs. During a disaster it is not the time to figure out plans and procedures.


BENEFITS

- The entire state is organized with a single mutual aid agreement for use by water and wastewater utilities which will help reduce administrative conflict.
- Statewide agreement does not conflict with existing local or county mutual aid agreements.
- There is no cost to join.
- There is no commitment or obligation required to respond if requested.
- There is a single agreement statewide to help maintain consistency.
- Utility operations are specialized and assistance by another utility can help until the arrival of other government aid.

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- Cleanup crews – debris removal
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- Cleanout of lift stations
- Install bypass pumps

CURRENT STATUS

On November 12, 2008 the fourth utility joined WisWARN and Wisconsin became the 34th state to have an approved WARN program operating within its border. WisWARN presently has about 15 members with more joining on a regular basis. WisWARN is starting up and taking hold. Do yourself and your community a favor, join WisWARN now. 



For more information about WisWARN or about joining WisWARN, visit our website www.WisWARN.org



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Global Participation in *World Water Monitoring Day* Increases





More than 73,000 people worldwide visited their local streams, rivers, lakes and other water bodies in celebration of World Water Monitoring Day (WWMD) in 2008, according to the program's *Year in Review* report released this week by the Water Environment Federation (WEF) and the International Water Association (IWA).

WWMD is an international education and outreach program that builds public awareness and involvement in protecting water resources around the world by engaging citizens to conduct basic monitoring of their local water bodies. The goal is to engage one million people in monitoring their local waterways by 2012.

Participants from Argentina to Zambia tested their local waterways for four key water quality indicators: dissolved oxygen (DO), pH (acidity), temperature, and turbidity (clarity). Samples were taken in a range of settings (agricultural, commercial, residential and industrial) on six continents.

A total of 73,510 people monitored


sites worldwide, which represents a 60 percent increase over participation in 2007. Some participants acted as individuals while many took part with schools, universities, civic, environmental, and faith-based groups. Data was reported from 70 countries – 27 more than the 43 logged in 2007. Sites in the United States accounted for approximately 63 percent of the 5,040 monitored worldwide. After the United States, Spain (14 percent), Taiwan (three percent), and Malaysia (two percent) led global WWMD efforts in the number of sites monitored.

The coordinators of WWMD, WEF and IWA, would like to acknowledge the generous financial and in-kind support in 2008 from primary sponsors including the U.S. Geological Survey, the U.S. Environmental Protection Agency, PerkinElmer, ITT Corporation, CH2M HILL, and Smithfield Foods.

WEF and IWA would also like to recognize the generous contributions of Procter & Gamble (P&G) to WWMD's "Wash Your Hands, Save a Life" campaign, which was featured in 2008 as

part of the United Nations' "International Year of Sanitation." Thanks to P&G, WWMD included a bar of biodegradable, environment-friendly soap and a hand-washing fact sheet in the 14,000 water monitoring kits that were distributed to people in 70 countries worldwide.

WWMD is officially observed each year on September 18. Beginning in 2009, the monitoring window will expand, allowing participants the flexibility to monitor and report data to the WWMD database anytime from March 22 (World Water Day) until December 31. The 2008 figures reflect data submitted between September 18 and December 18.

For a complete list of program partners, as well as more detailed statistics, please see the *World Water Monitoring Day 2008 Year in Review*, which is available online at www.WorldWaterMonitoringDay.org or via request to wwmd@wef.org. For more info on WWMD, contact Lori Harrison, WEF Media Contact at (703) 684-2480 lharrison@wef.org 



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Save the date:

CSWEA-CSX&YPX '09

July 16-17, 2009

The 2009 CSWEA Committee and Section Exchange, and Young Professional Exchange are scheduled for July 16-17, 2009 at the Kalahari Resort and Conference Center, in the Wisconsin Dells, WI. CSWEA Leaders, including Section and Association Committee members, chairs, state section officers and CSWEA officers, as well as interested members are invited to attend this two-day brainstorming session conducted in a casual and comfortable setting. Several highly successful initiatives were conceived during past CSXs and this event has become a not-to-miss event on our leadership calendar. The event begins at noon on Thursday, with a deli lunch and recesses Thursday evening for a family pizza party, with all invited. Plenty of social time provides for interaction and informal discussions and the exchange of ideas between committee members from each of the state sections or other committees, resulting and the development of even more great ideas.



The best part is you can bring the family so they can play in the water park and join in on the pizza party, for a mini-vacation while dad or mom participates in the CSX and YPX.

For the second year, CSWEA will also be hosting a Young Professional Exchange (YPX), patterned after the WEF YP Summit on Friday, July 17, 2009, at the Kalahari Resort in Wisconsin Dells. All young professionals in the water and wastewater fields

are encouraged to attend. The program will focus on building skills that are useful for working with teams, improving communications, and leading projects. All planning to attend the YPX are invited and encouraged to attend the Committee and Section Exchange and/or the Thursday Social Event and bring along the family. Watch for further details on the S&YP page of the CSWEA website in the coming months. We hope to see you there. [CS](#)

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WATER FOR PEOPLE NEEDS YOUR TALENTS AND EXPERTISE

Water for People is looking for WEF members who are interested in joining their World Water Corps program – Water for People’s global team of volunteers who support their growing portfolio of programs that are providing safe drinking water, sanitation, and hygiene education in some 11 countries.

World Water Corps volunteer members provide professional and technical expertise to Water for People’s in-country projects and staff: covering everything from monitoring and evaluation of water, sanitation and hygiene projects, to mapping, needs assessments, partner mentoring, business planning, and metering. Most World Water Corps volunteer assignments are about two weeks in length, but can run shorter or longer depending on the specific project or geographic location.

Not all World Water Corps projects require travel: Water for People also utilizes World Water Corps volunteers in the U.S. to help vet potential volunteers for overseas assignments. Water for People provides training and famil-

iarization for World Water Corps volunteers before they start any project.

IMMEDIATE NEED FOR WEF MEMBERS

One immediate opportunity for WEF members interested in joining the World Water Corps is the upcoming “Evaluation of Ecological Sanitation Work in Bolivia,” scheduled to get under way in early May 2009. Water for People staff on the ground in Bolivia has encountered some

problems with wastewater management issues on this project, and would welcome WEF member expertise to help them solve these issues. (Fluency in Spanish is required for this volunteer opportunity.)

If you are interested in joining this exciting program or would like additional information, please contact Ken Maynard, WEF’s Director of International Programs (KMaynard@wef.org). [CS](#)



Photos courtesy Water For People

Section Update

By Steve Godfrey

It is mid February as I write my fourth and final Wisconsin Section Chair message. It has been a pretty good year so far. We are preparing for the WI Section winter board meeting later this week, followed by the always well-attended Government Affairs Seminar. Another winter storm is on the way and hopefully it will not interfere with our events.

My report on Wisconsin Section activities starts with the Annual Board Meeting held on November 21, 2008 in Fond du Lac. Two important elections were held at the business meeting. Tom Sigmund was elected as a CSWEA trustee and Keith Haas will become the next WI Section vice chair. Congratulations to both. Dennis Egge, our liaison with WWOA reported that the UW library resources program is exceeding expectations and the section will continue with financial support of this successful program. The Public Awareness and Education Committee reported on their efforts to support the World Monitoring Day program by providing monitoring kits to various schools across the state. It is expected that 50-80 kits will be purchased this year. Also, the WI Section, through the efforts of Jane Carlson, continues to monitor and offer technical guidance regarding proposed standards for nutrients and other parameters that will affect discharge permits across the state.

Other recent Section activities include an AWWA/WEF "Night with Industry" dinner in December with the Madison student chapter. This fun event brought together a dozen professionals



and a couple dozen students for an evening of networking and socializing. The 4th Annual Midwest Water Industry Expo held in Wisconsin Dells was once again a success with a total of more than 600 attendees.

Our next Wisconsin Section meeting will take place in May at the CSWEA Annual Meeting in Lincolnshire, Illinois. I am really looking forward to that meeting for several reasons. One reason is that May means warm weather and all of the cold and snow from this winter will just be a memory. The technical presentations

and networking opportunities at the conference are certainly beneficial and it is always enjoyable to spend time with the many friends I have made throughout the years. I am also looking forward to turning the gavel over to Jim Beier, our current vice chair and I wish him well.

I will end by expressing my gratitude for all of the time and effort donated by our committee members, officers and leaders to keep the WI section going in a positive direction. And a personal thank-you goes out to David Arnott, our secretary/treasurer, for all of his dedication and hard work preparing for section meetings, recording meeting minutes, managing the checkbook, and a lot of other tasks that make the organization run smoothly. We are fortunate to have David serving in this capacity again next year. I have definitely enjoyed the year as Section Chair. Have a good spring and I hope to see you in Lincolnshire. **CS**

"I will end by expressing my gratitude for all of the time and effort donated by our committee members, officers and leaders to keep the WI section going in a positive direction."



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Water is Life

Doug Henrichsen, MN Section Chair

This has been a very busy year for the MN Section and for me personally. Our group has been very active over the last few months planning, organizing, and attending special events. Recent activities included: The MN Section CSWEA/MWOA combined forces again to provide an excellent 26th Annual Conference on Innovative Approaches to Wastewater Operational Problems. The conference was held on Tuesday, February 24, 2009 in St. Cloud, MN. The conference was well attended by equipment vendors, consultants, municipalities, agencies, private corporations, students, teachers, and others to provide a well-rounded conference. The keynote speaker was **Will Steger** (Polar Explorer) who presented a talk on a "Programmatic Approach to Global Warming". Numerous other speakers gave important talks throughout the day in their area of expertise. **Les Lange** (chair), **Kim Reynolds** (vice-chair), **Todd Arlander**, **Rick Ashling**, **Hershel Blasing**, **Dick Bristow**, **Gene Erickson**, **Bruno Gad**, **Scott Gilbertson**, **Marion Graham**, **Jim Miller**, **Karla Olson**, **Phil Parsons**, **Nick Pond**, **Randy Poore**, **Larry Rogacki**, **Joel Schmidt**, **Tanya Schmidt**, **Pat Shea**, **Bob Stark**, **Carl Swaggert** and **Colleen Thompson**, worked numerous hours together to plan and develop a wonderful conference.

Water is Life (WIL) has been a recent focus here in Minnesota. The 90-minute documentary entitled *Liquid Assets: The Story of Our Water Infrastructure* (supported by WEF, along with several other organizations) explores the looming crisis regarding decaying infrastructure and how cities must find the funds to rebuild eroding treatment and collection systems, separate sewer and stormwater flows, and protect the watershed. The documentary has already been shown on the Twin Cities Public Television (TPT) channel 17. In support of this documentary, **Patti Craddock** was approached by other organizations and TPT about creation of a documentary or lead-in piece specific



to Minnesota. We are looking for monetary and other support for this activity, as well as a leader for the Water is Life Committee. This is an excellent opportunity for us to be more involved and will be high profile. This activity provides a venue to unite our water professional community in one voice. Contact **Patti Craddock** (651-690-0400) about the WIL chair position and funding/sponsorship options for a Minnesota infrastructure documentary.

World Water Monitoring Day needs more folks to participate. We need support for public education funding to provide for the purchase of testing kits that we can hand out to parties we know will use them. This is a terrific learning event for young students in local schools, girl and boy scout troop activities, or community groups. The Stockholm Junior Water Prize Committee also needs a committee chair. If interested please speak with **Patti Craddock**. Other chair positions still needing to be filled include the Government Affairs and Membership committees. If you wish to be the leader of one of these important committees, please feel free to contact me. To learn more about these opportunities, please visit our website: <http://www.cswea.org/minnesota>.

Lastly, don't forget to mark your calendars for several upcoming Minnesota events:

- * March 26, 2009: MPCA Wastewater Operations Conference, St. Paul, MN
- * June 17 & 18, 2009: MN Section CSWEA/MWOA Laboratory Training Seminar (location to be determined)
- * July 28-31, 2009: MWOA 33rd Annual Conference, Grand Rapids, MN
- * Fall 2009: MN Section CSWEA/MWOA Collection Systems Workshop (location to be determined)
- * November 12, 2009: MN Section CSWEA/A&WMA Conference on the Environment, Brooklyn Center, MN CS

To learn more about these opportunities, please visit our website:
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Building Initiatives

By Roger Gyger

The Illinois Section began the year with a stimulating Government Affairs Seminar that was hosted jointly with IWEA. The 150 attendees were exposed to a variety of timely topics, including presentations by representatives from both the federal and state EPA organizations. There was considerable interest in the wastewater elements of the emerging federal "stimulus package". A full spectrum of other section seminars is scheduled for the remainder of the year. The *Laboratory Seminar* will be held on June 18 in Downers Grove, Illinois. As in 2008, this seminar will be jointly sponsored with IWEA. The *Collections Systems Seminar* is also scheduled for June, although a specific date has not yet been determined. This year we are planning to incorporate a number of new approaches at the *Collections Systems Seminar*. As part of our initiative to broaden the scope of the Illinois Section's constituency and appeal more broadly to operators, we will be jointly sponsoring this seminar with several Illinois operators organizations. Also, for the first time we will be including a limited number of vendor displays and "vendor quick talks" as part of the *Collections Systems Seminar*. The rest of the 2009 seminar program includes an *Operations Seminar* in August and a *Safety and Maintenance Seminar* in November.

The Associate Member offer with seminar registration has had good initial success and we plan to continue this initiative



during 2009. We are also continuing to post all of the Seminar Proceeding (presentations) on the CSWEA website.

A Public Education Committee display has been prepared, including a portable display backdrop, along with poster materials and handouts. This display highlights a number of WEF public education programs, including the *Water Is Life* program, for which new materials are being continuously developed. The Public Education display is being used at all Illinois Section events. Duplicates of the display are being

prepared for the other state sections, to support the broader CSWEA public education effort.

We are currently planning to have the Annual Illinois Section Meeting in March, at which time a new vice chair will be elected and the current vice chair, Gary Scott, from the Glenbard Wastewater Authority, will assume the position of Illinois Section Chair. At this meeting the 2009 budget will also be approved and major committee activities will be reviewed and plans established for 2009. Prior to the meeting a packet of meeting materials will be sent by e-mail to all Illinois Section members.

2008 was a productive year for the Illinois Section with a number of new initiatives successfully launched. We hope to build on these initiatives in 2009 by expanding our committee participation and our outreach activities, including developing alliances with other wastewater organizations within the state. CS

"As part of our initiative to broaden the scope of the Illinois Section's constituency and appeal more broadly to operators, we will be jointly sponsoring the Collections Systems seminar with several Illinois operators organizations."

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14th Annual CSWEA Education Seminar

Focus on Nutrient Removal

April 7, 2009

Monona Terrace, Madison, WI

MAY

82nd CSWEA Annual Meeting

May 18-22, 2009

Lincolnshire Marriott

Lincolnshire, Illinois

JUNE

WI Section CSWEA "Classic" Collection System Seminar

June 4, 2009

Turner Hall, Watertown, WI

MN Section CSWEA/MWOA Laboratory Seminar

June 17-18, 2009

Location TBA

IL Section CSWEA/IWEA Laboratory Seminar

June 18, 2009

Downers Grove, Illinois

IL Section CSWEA Collection System Seminar

June 2009

Location TBA

JULY

CSWEA CSX-YPX '09

July 16-17, 2009

Kalahari Resort and Convention Center

Wisconsin Dells, WI

MWOA 33rd Annual Conference

July 28-31, 2009

Grand Rapids, MN

AUGUST

WI Section CSWEA "Northwoods" Collection System Seminar

August 6, 2009

Clearwater Hotel & Convention Center, Marshfield, WI

OCTOBER

WEFTEC '09

October 10-14, 2009

Orlando, FL

NOVEMBER

MN Section CSWEA/A&WMA

Conference on the Environment

November 12, 2009

Brooklyn Center, MN

MN Section CSWEA/MWOA Collection System Workshop

Date TBA

Location TBA



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Employment Information

Employer	Job Title
Environmental Focus	Other focus or interest (please specify)
Signature (required for all new memberships)	Date

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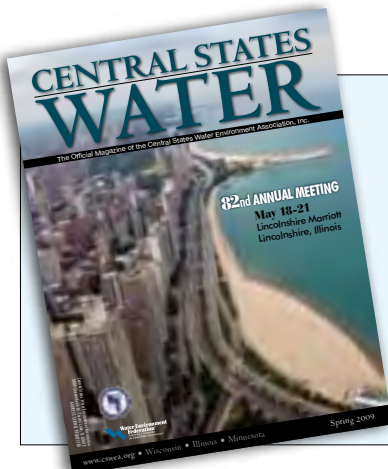
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