





Pictures from around the State



Illinois Rural Water Association

BOARD OF DIRECTORS

Volume VI - Winter 2010

PRESIDENT GREG BATES Jersey County Water Company

> VICE PRESIDENT SCOTT WALLIS City of Princeton

SECRETARY
JEFF TUMIATI
City of Stonington

TREASURER
DALE HANNER
City of Oakland

BOARD MEMBERS

STEVE FLETCHER
Washington County Water Company

TOM SHREWSBURY Village of Hebron

> JAY BELL City of Chenoa

PERRY MUSGRAVE Village of Elkville

WAYNE DIXON City of Mason City

STAFF

FRANK DUNMIRE
Executive Director
dunmire@ilrwa.org • 217-820-4626

DON CRAIG Deputy Director craig@ilrwa.org • 217-561-1061

HEATHER MCLEOD Membership Services Assistant ilrwahm@ilrwa.org

DENISE BURKE Administrative/Program Assistant ilrwadb@ilrwa.org

WAYNE NELSON EPA Training Specialist ilrwawn@ilrwa.org • 217-820-1561

KATHY RODGERS EPA Source Water Specialist rodgers@ilrwa.org • 217-820-8377

GALE MOORE Circuit Rider moore@ilrwa.org • 217-820-4754

PAT GAMMILL Circuit Rider gam@ilrwa.org • 217-820-1564

CHUCK WOODWORTH Circuit Rider ilrwacw@ilrwa.org • 217-820-1569

JOHN BELL Wastewater Technician ilrwajb@ilrwa.org • 217-820-1568

GARY CHASE Wastewater Technician chase@ilrwa.org • 217-820-1560

BILL DOWELL Wastewater Technician dowell@ilrwa.org • 217-820-1562

MARK MITCHELL USDA Source Water Specialist mitchell@ilrwa.org • 217-820-1565

ARTICLES

Pictures from around the State	2
Happy FOIA New Year?by Frank Dunmire	5-6
Illinois Rural Water Association Completes	
Security Assessments for Public	
Water Suppliesby Mark E. Mitchell	8
28th Annual Technical Conference	16-20
Upgrading the Trickling Filter WWTP	
at Morrisonby Gary Chase	21-22
One of the Five Wettest	
Years on Recordby Greg Bates	23
The Power to Empower Yourselfby Amy Twain	24-25
Eleven Commandments for Water Users	25
Did You Know	26

MISSION STATEMENT

"Protecting and preserving the water and wastewater resources of Rural Illinois through education, representation and on-site technical assistance".

ON THE COVER: Picture taken by Denise Burke on December 30, 2009 of the IRWA office with snow falling outside.

Water Ways is the official publication of the Illinois Rural Water Association, P.O. Box 6049, Taylorville, Illinois 62568, and is published quarterly for distribution to members as well as other industry associations and friends. Our website is www.ilrwa.org. Articles and photographs are encouraged. Advertising and submissions should be mailed to the above address or e-mail us at ilrwadb@ilrwa.org.



LIST OF ADVERTISERS

American Flow Control	11
Bakercorp	4
Banner Engineering	15
Cady Aquastore	27
Coe Equipment, Inc.	4
Crawford, Murphy & Tilly, Inc	23
Dixon Engineering	4
Heneghan & Associates, P.C	9
Maguire Iron	24
Metropolitan Industries	7
Missouri Machinery &	
Engineering	23
Municipal Well & Pump	13
Natgun Corporation	11
Newell Sand/Rock Filter Cleaning	∠
Norman Noe Co. Inc.	15
Pittsburg Tank & Tower	22
Ressler & Associates	10
Schulte Supply, Inc.	12
Stewart Spreading, Inc	14
Taylor Coating Sales, Inc	6
Test, Inc.	<u>ç</u>
The Ford Meter Box Co., Inc	10
USA Bluebook	
Utility Service Company, Inc	9



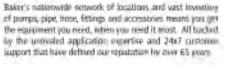
Water Well Solutions......15

I NEED A PUMP AND I NEED IT NOW





Hent, buy or service; look at the people that stand behind the pump and you'll know-there's only one company to call, BakerCorp.



BakerCorp. People, equipment and solutions that get the



- · Priming Assisted
- . Self Priming
- High Pressure
- · Electric
- Submersible
- · Air Diaphragm
- Sound Attenuated
- Utility

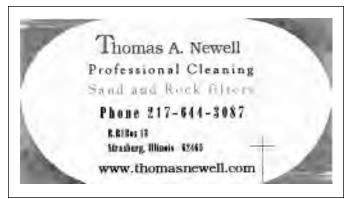


(708) 758-5277 www.bakercorp.com/meeditnow

Marly Cos Fquipme

- 5953 Cherry Street
- Rochester, IL 62563
- Telephone: 217-498-7200
- FAX: 217-498-7205
- marty.coe@coe-equipment.com

Serving Illinois and Missouri Vactor & All Sewer Cleaning Equipment



Engineering and Inspection Services for the Coating Industry

Since 1981, Dixon Engineering has been recognized as a leader in the storage tank and coaling inspection industry. With over 1250 municipal, state, and federal clients. Dixon has experience with virtually any type of water/wastewater storage tank and coating maintenance needs - specify Dixon Engineering. Let our expertise help you preserve the value of your facilities.

Dixon offers the following services to meet your engineering and inspection needs:

Inspection Services

- *Tank Maintenance
- * Underwater
- · Warranty
- *Abrasive Blest Cleaning
- *Steel Coaling Applications
- * Concrete Coaling Applications.
- New Tank Construction
- * Antenna Installation
- Cathodic Protection
- Weiding/Repair

Engineering Services

- Tank Repainting Specifications
- Specification Review
- Cathadic Protection Specifications
- Antanna Design and Review
- *Tank Structural Repair Specifications
- *Tank Raising and Relocation
- *Tank Demoition
- Coating System Facure Analysis
- 'Trealment Plant Coating Specifications

Visit our website at http://www.dixonengineering.net for information about these and our other services.

DIXON ENGINEERING INC.

9820 Route 34, Suite B Yorkville, IL 60560 (630) 553-7750 illindis@dixonenginaering.net

9415 W. Forest Home, Suite 208 Hales Corner, WI 53130 - (414) 529-1859 wisconsin@dixonerigineering.net



1104 Third Avenue

Lake Odessa, MI 48849 (616) 374-3221

dixon@dixonengineering.net

As the clock was striking upon the midnight hour December 31, 2009 it was not only ringing in the New Year but it was also ushering in several new laws. This month's article will focus on one law, or Act, in particular that underwent major changes – the Freedom of Information Act (FOIA). All of the changes enacted were in answer to concerns over whether or not public bodies and public records are both transparent and accountable.

First (and probably most importantly) the Act finally statutorily created the position of a Public Access Counselor within the Illinois Attorney General's office. This Public Access Counselor (PAC) will be part of the Public Access Bureau inside the Attorney General's office, which includes several Assistant Attorneys General and professional support staff working to respond to FOIA and Open Meetings Act issues raised by both the general public and government officials. Working under the direction and supervision of the Attorney General, the PAC has authority to review requests for documents under FOIA and determine whether those documents should have been produced under FOIA. The PAC also has the authority to determine whether a public body has violated the Open Meetings Act. As part of this Public Access work, the Attorney General, through the PAC, has subpoena power, may issue advisory opinions to guide public bodies, may issue binding opinions in FOIA disputes and may sue to enforce binding opinions. Upon receipt of a request for review, the PAC is to determine whether further action is necessary and; 1. If the Public Access Counselor determines that the alleged violation is unfounded, he must so advise the requester and public body and no further action shall be taken or 2. In all

other cases, he or she must, within seven (7) working days of receipt, forward a copy of the request for review to the public body and specify the list of records or other documents the public body must furnish for further review before issuing a ruling. Attorney General, Lisa Madigan, recently appointed Cara Smith as the PAC and her contact information is as follows:

Cara Smith, Public Access Counselor

Public Access Bureau 500 S. 2nd Street Springfield, Illinois 62706 E-mail: <u>CSmith@atg.state.il.us</u> FOIA Hotline: 1-877-299-FOIA (1-877-299-3642)

Direct Line: 312-814-5526

Probably the most daunting task that the Act has created for public bodies will be that of designating, training and certifying one or more people to serve as a Freedom of Information Officer. The Act requires that "Every public body shall designate employees, officers, or members to receive training on compliance with this Act. Each public body shall submit a list of designated employees, officers, or members to the Public Access Counselor. Within 6 months after the effective date of this amendatory Act of the 96th General Assembly [January 1, 2010], the designated employees, officers, and members must successfully complete an electronic training curriculum, developed and administered by the Public Access Counselor, and thereafter must successfully complete an annual training program. Thereafter, whenever a public body designates an additional employee, officer, or member to receive this training, that person must successfully complete the electronic training curriculum within 30 days after that designation." In addition, every public body must prominently display at its office and



make available certain information, including the name(s) of its FOIA officer(s). The office also must display and make available: 1. Information on how to submit a FOIA request; 2. A brief description of the office, including its purpose, budget and number of employees: and 3. Any public body that has a website must also post this information on its website.

In an effort to clear up some confusion as to who might fall under the requirements to the new FOIA Act, it then went on to deal with expanding the definition of a Public Body to include "all legislative, executive, administrative, or advisory bodies of the State, state universities and colleges, counties, townships, cities, villages, incorporated towns, school districts and all other municipal corporations, boards, bureaus, committees, or commissions of this State, any subsidiary bodies of any of the foregoing including but not limited to committees and subcommittees thereof and a School Finance Authority created under Article 1E of the School Code."

The definition of Public Records also received like treatment and was defined to include "all records, reports, forms writings, letters, memoranda, books, papers, maps, photographs, microfilms, cards, tapes, recordings, electronic data

continued on page 6

processing records, electronic communications, recorded information and all other documentary materials pertaining to the transaction of public business, regardless of physical form or characteristics, having been prepared by or for, or having been or being used by, received by, in the possession of, or under the control of any public body." According to the Attorney General's website, www.ag.state. il.us/government, some examples of public records available under FOIA are: orders; rules; reports or studies; contracts; names, titles and salaries of public employees; and the voting records of public bodies. Information can be available in electronic as well as paper format.

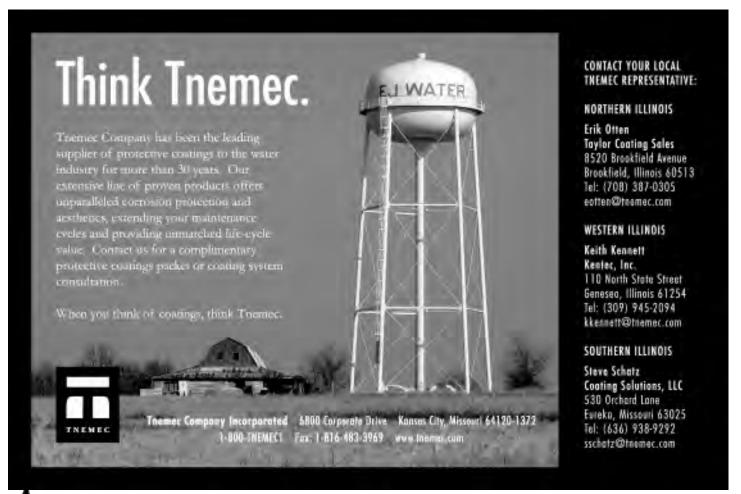
One of the changes that particular attention should be paid is that of response time. In the past Public Bodies

had seven (7) working days in which to respond to any FOIA request, with the recent changes in the Act, you must now respond within five (5) business days after the public body receives the request. In other words, day 1 of the response timeline is the first business day after the request is received by the public body not the date that the request was received by the public body. And before you ask, receipt of the request is considered to be met whenever any employee or official of the public body receives the request for information and not when the actual FOIA officer receives it.

In past years non-compliance to FOIA requests of violations of the Opens Meetings Act were most likely dealt with through "nasty grams" from the AG's office and/or scathing news accounts.

No more. With the enactment of the new FOIA, those that violate the Act risk the possibility that a court could ultimately impose a civil penalty of between \$2,500 and \$5,000 per FOIA violation – definitely incentive enough for everyone to comply with these new changes.

It is impossible for me to hit on all of the changes that this Act will have upon how you conduct your public business so the IRWA will have a session on FOIA changes during its Annual Technical Conference in Effingham next month. Agendas and registration forms were mailed out towards the end of December. If you have not received one please see pages 16-20 or go to our website at www.ilrwa.org and download one. Hope to see all of you in Effingham February 16-18!



The Pumping World's One Stop Shop!™



Wastewater Treatment Solutions



S.C.A.D.A. Integration



Water Treatment Solutions



Pad Mounted Control Packages



Municipal Control Packages

Other Services

- Sanitary & Storm Water Lift Stations
- Valve Vault / Meter Stations

For 50 years, Metropolitan Industries, Inc. has been the pumping world's one stop shop for quality pumps, control systems, prefabricated systems and ancillary equipment for both the water and wastewater industries. We have the knowledge, experience and capability to tackle

- Water Booster Stations
- 5-Million-Dollar-Plus Parts Inventory

any pumping application related to the pumping industry. We will back up our work with 24/7 service to give you that peace of mind you deserve. Choose Metropolitan for your next water or wastewater project and see how convenient one stop shopping can be!



Metropolitan Industries, Inc.

37 Forestwood Drive, Romeoville, IL 60446 815-886-9200 • Fax 815-886-6932 www.metropolitanind.com

Illinois Rural Water Association Completes Security Assessments for Public Water Supplies

by Mark E. Mitchell, Source Water Protection Specialist

Recently, the IRWA staff completed 50 Security Assessments for Public Water Supplies throughout the state of Illinois. These evaluations were done completely on a voluntary basis and the information gathered and compiled was shared only with the Water Superintendent or Responsible Operator in Charge (ROINC), depending on who was interviewed in the information gathering portion of the project. It was then left up to that person to decide how to share that information with the governing body for that individual supply.

For these Security Assessments, the water supply was broken down into 4 basic parts; Source, Transmission Main, Treatment Facility and the Distribution System.

The source (surface, ground or purchase) and each well, intake or connection was considered on an individual basis. It was determined whether the source was located in an isolated or populated area, if the controls were inside a secure building or pole mounted, if the control boxes were locked and if the area was well lighted and relatively clear of obstructions so that it was clearly visible from the road or street.

The transmission main was considered as an integral part of the system and was evaluated based on the length of the main in feet or miles, if there are remote hydrants, air release valves, booster pumps or pressure reducing stations. If any of these were present, how are they secured? Have there ever been incidents of tampering or theft of water from remote hydrants? If there are remote

hydrants, are they secured with hydrant locks or shut off at the watch valve in front of the hydrant?

The water treatment facility was the next item looked at, and the same items were considered for the treatment facility as were considered for the source; however additionally considered were things like: Are all chemical deliveries monitored by system personnel? Is there a key control system in place? Does the facility have an intrusion alarm and if so is it utilized? Are there security cameras in place for monitoring when an operator is not present? Is there a SCADA system present and if so, are remote operations possible?

The distribution system was a very detailed inspection and took the most time to evaluate in most cases. Fire hydrants, valves, water storage tanks (both elevated and ground storage), bulk water sales stations were just the beginning of the items inventoried and evaluated in this task. Are the access doors locked on elevated tanks? Are the sites fenced and well lighted? Is the bulk water salesman in a place that is readily accessible, yet well lighted and in a populated area? Are fire hydrant locks used? Are valves exercised and readily accessible?

Once the field evaluation was completed by field staff this information was passed on to one of two staff members that then made a final evaluation and compiled all the information into a report form. Pictures by field staff were a very large part of these reports. After a final evaluation, results and recommendations



were inserted into these reports along with commendations for what the system personnel were already doing right.

It brings me great pleasure to note that in all of these Security Evaluations that were completed for Public Water
Supplies state wide, all were making great strides in protecting a very vulnerable public service. IRWA was able to make at least a few recommendations in every case, but then again isn't that the idea of every study, evaluation or inspection that you have ever went through?

I would like to thank personally and on behalf of the Illinois Rural Water Association, each individual who took time out of an already busy schedule to take us to all of these places in your water supply and to be thoroughly quizzed on what you are doing or have done to enhance security in your public water supply. I have an even higher degree of respect for each and every one of you and the great job you do each and every day, and we know you do it thanklessly. But believe me when I tell you this; you are appreciated for the tireless efforts to protect the public from those who would try to harm us. A



www.plajyseye.co

Tatal Edul Inidiaental Service (incluieranie i. uic



- Sampling & Field Related Services
- · Contract Services Water/Wastewater ·
 - Regulatory Compliance Services
 - Certified Laboratory
 - IEPA Regional Lab
 - Consultant Services

Over 100 Plants & Operations throughout Illinois

Peru, Illinois Established 1987 815-224-1650 www.testinc.com

- · Bushnell · Carthage · Hinckley · Peru ·
 - · Avon · Prairie City · Dallas City ·
 - · Creve Cocur ·

To California and back - Not for vacation

The miles of water line engineered by

HENEGHAN and ASSOCIATES, P.C.



Engineers © Surveyors www.hisengr.com Since 1986 888-291-7615

Call us for all of your engineering solutions

Structural Engineering Permitting

Stormwater Transportation

Water & Wastewater Funding Applications



WATER WORKS BRASS AND PIPELINE PRODUCTS





THE FORD METER BOX COMPANY, INC.

(260) 563-3171 • FAX: (800) 826-3487 http://www.fordmeterbox.com

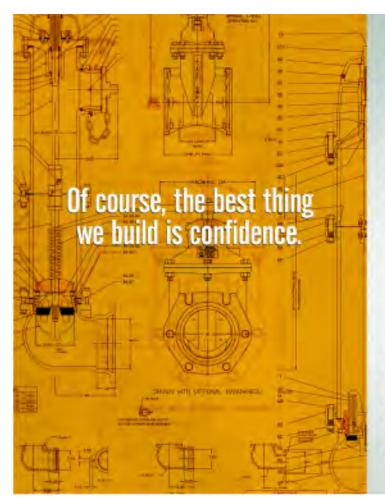




Water Quality Monitors
Lime Slakers
Membrane Technology
Aeration
Spare Parts & Replacements



Filters & Media
Chlorination Equipment
Stripping Towers
Mixers/Flocculators
Chemical Metering Pumps



ONLY AMERICAN FLOW CONTROL GIVES YOU EVERYTHING YOU NEED:

a product line tested and proven to be the best. The expert guidance of people who truly care about their customers. And the knowledge and experience gained from 100 years of helping engineers design the perfect solutions for their projects. American Flow Control. When you use our products, confidence is built in. In Northern Illinois, contact Tom Rodebaugh at 630-258-5349. In Southern Illinois, contact Cort Place at 913-432-4112 or go to www.acipco.com/afc.



Ask about the new Captivater's hydrant nozzle security device. It's universal!

Customer Service: 800-326-8051 Fax: 800-610-3569

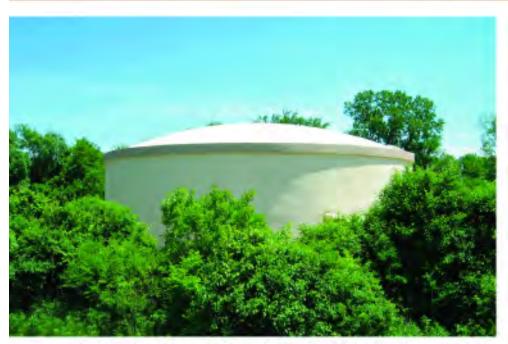


American Flow Control, a division of American Cast Iron Pipe Company woods.





It won't rust, bust or bite the dust.



1.0 MG Natgun water tank for the Village of Posen, IL. Engineering by Robinson Engineering, Ltd., South Holland, IL.

But it will store water for generations to come.

847-782-0357 www.natgun.com Jerry Myers, Regional Manager

MANHOLE ADJUSTMENT RING

READJUST MANHOLE LIDS TO NEW ELEVATION WHEN RESURFACING

MANHOLE ADJUSTMENT RING

ONLY 4 DIMENSIONS REQUIRED

- 1 O.D. of existing lid: TOP and BOTTOM
- 2 thickness of existing lid
- 3 riser height (thickness of asphalt matt*)
 *Note: minimum riser must be 1/2" more than thickness of existing lid



- * Full Range of Sizes
- Eliminates Digging
- * Requires No Tools

-		

Company Name Phone # ORDER FORM					
Quantity		Street / Location	Lid O.D. Top / Bottom	Thickness of Lid	Desired Rise

SIMPLE--QUICK--PERMANENT

To Order, Please Call:

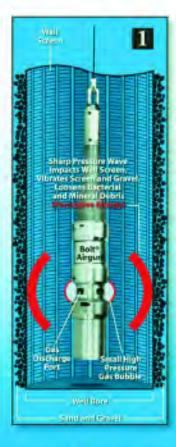
Schulte Supply, Inc.

FAX Your Order to: 618-656-8750

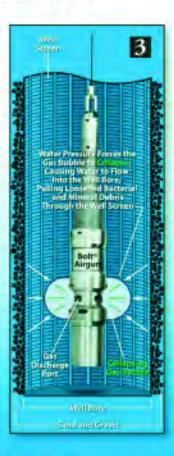




THE **POWERFUL** REHABILITATION AND DEVELOPMENT PROCESS FOR ALL WATER WELL TYPES







Compressed air or inert gas are the sources of AIRBURST® energy, providing you and your customers with an effective and responsible green alternative to other methods.

BI-PRODUCT FREE

RESIDUALS FREE

EXPLOSIVES FREE



For more information, please contact authorized contractor:

Municipal Well & Pump 1-800-383-7412 • www.municipalwellandpump.com



CONTACT US:

3870 N. IL Route 71 Sheridan, IL 60551 P: 815-695-5667

www.STEWARTSPREADING.com

OUR MISSION IS TO PROVIDE QUALITY, TIMELY AND INNOVATIVE SERVICE TO EVERY CLIENT... EVERY TIME.

EXPERTISE

Stewart Spreading, Inc. is a full service residuals management company. Founded in 1994, Stewart Spreading has specialized in providing green solutions to the residuals management needs of municipalities, agricultural producers and industrial facilities throughout the Midwest for over a decade.

With roots deeply embedded in the farming community, Stewart Spreading, Inc. has a unique understanding of beneficial recycling and has consistently demonstrated this know-how. Just ask our clients. We form mutually beneficial relationships, among agricultural producers, industries and municipalities, that last.

FULL SERVICE

Whatever your requirements, Stewart Spreading, Inc. can design and manage a program tailored to fit your needs. We specialize in beneficial recycling of biosolids and water residuals, lagoon cleaning and closure, mobile dewatering and screening, digester cleaning, emergency pumping services, EPA compliance and reporting, public relations, farming services and green industrial solutions.

With a proven track record of providing innovative and economical solutions, we aren't finished until you are satisfied.

INNOVATION

Stewart Spreading, Inc.'s foundation is built on innovation. Not satisfied with being just another beneficial recycling company, we thoroughly analyze each project to create the most efficient and environmentally friendly solution possible. Our experienced management staff has the unique ability to customize equipment, in record time, to progressively and consistently meet the demands of our clients and agricultural users.

Stewart Spreading, Inc. wants to be your residuals management team of choice. LAND APPLICATION
LAGOON CLEANING
DIGESTER CLEANING

BENEFICIAL RECYCLING

GREEN INDUSTRIAL SOLUTIONS

MOBILE DEWATERING / SCREENING

Barth-friendly recycling helping the American Farmer

NO PROJECT

LARGE OR

TOO SMALL





- Analog, Discrete, Temperature, and Serial I/O
- Transceiver pairs to replace a single signal cable.
- Scalable networks collect thousands of signals
- FlexPower options include battery, solar, and DC
- Integrated Site Survey for wireless link status
- 900 MHz and 2.4 GHz license-free radio
- Multi-layer security protocol
- IP67, Intrinsically Safe, and Class I Div 2 models



Markets Served:

- Water and Wastewater
- Composting
- Irrigation
- Landfills



www.bannerengineering.com/wireless

To contact your flinois area sales manager, call Tony Modaro at 630.577.7136

BANNER

more sensors, more solutions

Winnespolis, MN +888 373 6702



NORMAN NOE, Pesident

NACE Certified Coating Inspector #1891 AWWA Life Member

Norman@NormanNoeWaterTankInspection.com www.NormanNoeWaterTankInspection.com



BRASS FIRE HYDRANT WATER PRESSURE RELIEF VALVES

The NORMAN NOE CO INC offers brass water pressure relief vulves that are used to help relieve water main pressure when a water tank is "off line" for maimenance or emergencies. The adjustable valves are preset to 65 psi and come complete with 2-1/2 inch brass fire hydram and fire hose, discharge adapters and a 0 (00 psi pressure gauge.

In order one or more valves go to www.normannoevntertankinspection.com and click on Relief Valves or call 317-933-2274







REGISTRATION INFORMAT

Host Hotel

Hilton Garden Inn 1301 Ave. of Mid-America Effingham, IL 217-540-7777 Room Block: \$80.00



Auxiliary Hotels

Holiday Inn Express

1103 Ave. of Mid-America 217-540-1111 Room Block \$80.00 per night

Country Inn & Suites

1200 N. Raney St. 217-540-5555

Room Block: \$80.00 per night

Hampton Inn

1509 Hampton Drive (I 57 & I 70 X. 160) 217-342-4499

Fairfield Inn & Suites

1111 N. Henrietta (I 57 & I 70) 217-540-5454

REGISTRATION

Registration is required for all conference attendees. Badges are required for all attendees. Please register each attendee using the registration form included in this packet, include the attendee's full name on the registration form as it should appear on his or her badge.

Pre-Registration:

To pre-register just complete the registration form and mail with payment to:

IRWA

PO Box 6049

Taylorville, IL 62568

Or pay on-line with your credit card at www.lirwa.org. Pre-registration must be postmarked by February 5th, 2010

On-Site Registration

All conference attendees must obtain a name badge and conference material at the registration desk. If you do not pre-register; please make sure that you register as soon as possible after you arrive at the Keller Convention Center.

Please note that on-site registration is \$25.00 higher than pre-registration.*

Registration Hours:

Tuesday, February 16th 8:00 a.m.-4:00 p.m. Wednesday, February 17th 8:00 a.m.-4:00 p.m. Thursday, February 18th 8:00 a.m.-9:00 a.m.

Cancellation & Refunds:

Refunds only in the event of emergencies. We must have a written notice of cancellation to issue a refund.

EXHIBIT HALL

Over 80 companies will be bringing their products and services to you at this year's conference. Professionals from all areas of the water and wastewater industry will be on hand to help solve your problems and provide you with the information you need to make those crucial decisions. The exhibit hall is open during the following hours:

Tuesday February 16th 10:30 a.m.-4:00 p.m. Wednesday, February 17th 8:00 a.m.-3:15 p.m.

Exhibitor's Hospitality Night

6:00 p.m.-8:00 p.m. Tuesday, February 16th Our conference exhibitors have provided food, soda and beer in rooms 3 & 4 for the evening.

CASINO NIGHT

Wednesday February 17th 6:30 p.m.-9:00 p.m.

SPORTSMAN RAFFLE

The exhibitors will be donating sports related prizes for the raffle. Attendees have the opportunity to purchase raffle tickets for these prizes with the winners announced at the conclusion of Casing night. Last year we purchased new equipment for the staff to better assist our members and sent a portion of the proceeds to rural water lobbying efforts in Washington D.C.

NEW PRODUCTS/SERVICES ROOM

Back again this year is the new products/services room. Stop. by the Jefferson Room to see the presentations for the new and improved products or services our exhibitors have to offer. A new presentation will begin every 45 minutes. The schedule of sessions will be included in your packet at the conference.

Theses sessions will be included for CEU's this year.



Tuesday, Februar	y 16th Regis	tration Open: 8:00 a.m.—4	4:00 p.m.	
9:00 a.m 10:30 a.m.	O	pening/RD Update/ARRA Funding		
10:30 a.m.—11:16 a.m.	Break/Exhibit Hall Opens			
	WATER	WASTEWATER	BREAKOUT	
11:45 a.m.—12:00 p.m.	Trenching & Shoring	IEPA Update	Regional Water Supply Planning Committee	
12:00 p.m.—1:00 p.m.	Lunch Buffet—Ticket Required			
1:00 p.m.—2:30 p.m.	Disinfection Alternatives— Solid Form	Slip-lining of sewer lines vs. replacement	ILWARN	
2:30 p.m.—3:00 p.m.		Break/Exhibitor Drawings		
300 p.m.—4:30 p.m.	Surge Protection in Distribution Systems	Infrared Thermography for Electrical Troubleshooting	IRWA Annual Meeting	
4:30 p.m.	Wa	ter Taste Test/Awards Ceremony		
6;00 p.m.—8;00 p.m.		Hospitality Night		
Wednesday, Febr	uary 17th Regis	tration Open: 8:00 a.m.—4	1:00 p.m.	
8:00 s.m.		Exhibit Hall Opens		
9:00 a.m.—10:10 a.m.	Re-Ox/Controlling Organics	Combined Sewer Overflows—Long Term Plans	Wage & Hour Laws	
10130 Ami-11:00 Ami-	Break/Exhibitor Drawings			
11:00 a.m.—12:00 p.m.	Rate Studies	Aeration-Lagoon Treatment	Wage & Hour Laws (continued)	
12:00 p.m.—1:00 p.m.		Lunch Buffet/Ticket Required		
1:00 p.m.—2:30 p.m.	IEPA Regulatory Update	Visual Inspection of Collection Systems	Disconnect Policy/ FOI Act	
2/30 p.m. 3/00 p.m.		Break/Exhibitor Drawings		
3:00 p.m.—3:46 p.m.	Making the Internet Useful	Laboratory Procedures	Open Meetings Act/ Horne Rule/	
3,45 p.m. 4/30 p.m.	P2D2—Prescription Pill & Drug Disposal Program	Laboratory Precedures (cont'd)	The Fight Over Water Resources	
6:30 p.m.—9:20 p.m.	Casino Night //	Announcement of Sportsman Rai	ffle Witmers	
Thursday, Februa	ry 18th Registr	ation Open: 8:00 a.m.—9:0	00 a.m.	
7:30 a.m.—8:30 a.m.	В	reakfast Buffet/Ticket Required		
8/30 a m —10:00 a.m	Gas Chlorinators & Chemical Feed Pumps	Confined Space Entry/ Competent Person		
10:80 A.m.—10:15 a.m.		Break		
10:15 a.m 11:45 a.m.	Asset Management for Water and Wastewater Utilities Made Easy	J.U.L.I.E. Update		
11:45 a.m.—12:00 p.m.	Clos	ing Ceremony/Grand Prize Drawin	q	

SSIONS AT A GLA

WATER SESSIONS

Rural Development Update - Patrick Lydic; State RD Office This may be the time for public water supplies to upgrade or expand their systems. Come hear about the funding available from Rural Development including federal stimulus dollars.

ARRA Funding - Don Craig; IRWA

Supportive information about the American Recovery & Reinvestment Act (ARRA) funds available and how IRWA ARRA Circuit Riders can be of assistance to rural utilities.

Trenching & Shoring - Ken Riley, Kundel Industries Be Safe - NOT Sorry! Find out why you should use a trench box and how to use one once you have it.

Disinfection Alternatives - Solid Form Arch Chemicals Conventional disinfection chemicals are coming under fire from several directions. Aftend this session to learn about a new process that may fit your disinfection needs.

Surge Suppressors - Maria Braun; JCM Industries Anybody reading this like fixing water main breaks? The equipment covered in this session can provide protection against possible ereaks.

RE-OX/Controlling Organics - Nick Stanley; Water Solutions

Updates with case studies on uses and applications in confrolling organics using RE-OX.

Rate Sturtles - Don Craig; Illinois Rural Water Association Completing a regular rate study is Imperative to keep proper revenue coming into utilities. This session will review the basic study used by IRWA staff and detail the statistical and financial data needed to complete a study.

IEPA Regulatory Update - Dave McMillan/Anthony Dulka, IEPA Regulations keep coming and they keep changing. Attend this class to hear about both the new and the changes to old ones.

Making the Internet Useful - Steve Wilson; IL State Water Survey Like it or not, the internet is here to stay. Learn how to use it to provide additional resources for your system and yourself.

P2D2 - Prescription Pill and Drug Disposal Program - Paul Ritter Pontiac High School

Topics covered in this session include: The P2D2 network & IL-IN Sea Grant and Passing the Torch - Educating the Next Generation for Pharmaceutical Environmental Stewardship.

Gas Chlorinators/Chemical Feed Pumps - Bill Redfem: Sidener Environmental

Hear about the safety precautions you need to take when dealing with chlorine and chlorinators.

Asset Management for Water and Wastewater Utilities Made Easy Ryan Costello: SEMS Technologies

Learn about the asset and inventory management programs for drinking water and wastewater utilities, and how to implement these programs and effectively use software tools to help automate this process.

WASTEWATER SESSIONS

IEPA Lipdam - Sob Voss; IEPA

Bdb will be giving an signalic of IERW regulations and information regarding a discaling install

siring of Sewer Lines vs. Flantagement- Gary Portrod. Institutoren Incheninging Inc.

Correcte this assistant to have speed qualifyin place the influence more and sanitary complian systems.

Can Intel Sewer Oyerflows - Long Term Print + Jae Plaum Donahus & Associates

How to survive a C>O long-term oldn without breaking the trank.

Intrared Thermography for Electrical Froudieshipoting - Randy Spinger Pepper Maintenance

Using infrared cameras to track heat in alectrical motors and systems for maintanance/diagnostic analysis

Aeration to Landons: Design Treatment & Emorgy Comparisions-John Hinde: Air Diffusion Systems

The treatment turnefits of aeration in arguins, with direct must energy companison. (Arti potential energy savings and grants).

Visual Inspection of Collection Systems - Marty Coet Lice Equipment How can you see what's gold on out there in your sewer mas? This class will provide information on the techniques available to: see "mill Inside of those lines

Labermory Procedures - Andy Grocom, Suburthur Laber This pession will provide information that may have you filling a accord look of the way you proternslati tenting

Contined Space Entry/Competent Pure in - Les Lawren GOL There are still people dying but there in contined sputes. Don't be a stationin Learn or out a refresher of the safety measures needed. wiren grimg in

J.U.L.I.E. Update - Eate Row, J.U.L.I.E.

Mivays and J.U.L.I.E. Before you till up ANYTHING, including sewer lines. Hear about the program before the spring building season.

BREAKOUT SESSIONS

Regional Water Supply Planning Committee Recort - Dr. Derek Winstanley, Mahomet Aquifer Consortium Attend this session to hear some recommended standards for water supply planning.

LWARN - TBA

IRWA Annual Meeting

Come and catch up on what your Association has done in the bast year. The newly elected board members will vilua be sented in the polities

Wane & Hour Laws - Ken Kelly, KTG Labor Consullants Do you lieve to give rest breaks & lunch breaks? The difference between "Flex" & "Comp" time? Who can be an exampl/salaried employee? Find out the answers to this and more!

Disconnect Policy, FOI Act. Open Meelings Act. Home Rule, & Water Resources - Mike Antoline. The Office of Mike Antoline - You can't disconnect me!" Mr. Antoline will update you on the rules for water and sewer disconnects for governmental bodies as well as the changes in the Freedom Of Information Act, the DANGEROUS and aweeping changes in the Open Meetings Act. Other Topics that will be covered include:

Was Your Ordinance Valid? - The Power of Non-Home Rulet vs. Home Rule Municipalities and The Fight over Water Resources Benomes A Wart



	(Please fill out for each attendee)	
Name for Badge:		
System Name:		
Mailing Address:		
City	State: Zip:	
Phone:	E-mail address:	
FULL REGISTRATION: (Incl	ludes technical sessions, exhibit h	nall, meals & activities for all 3 days)
Member - \$125,00	Non-Member - \$200.00	Spouse/Non-Employee - \$125.00
ONE DAY REGISTRATION: (Includes technical sessions, exhib	bit hall, meals & activities for 1 day only
Member - \$105.00	Non-Member - \$140.00	Spouse/Norr-Employee - \$105.00
PLEASE CIRCLE WHICH	I DAY YOU WILL BE ATTENI	DING (for one day registration only)
3	TUESDAY WEDNESDAY TH	URSDAY
All fees must be p	uid when registering - no purchas	se orders or special billings

NO REFUNDS AFTER FEBRUARY 5, 2010 Registration will not be accepted by mail after February 5th

Please make check payable to: Illinois Roral Water Association

P.O. Box 6049

Taylorville, IL 62568

For credit card payments go to www.ilrwa.org

Call 1-800-762-3547 with questions

Upgrading the Trickling Filter WWTP at Morrison

by Gary Chase, Wastewater Technician

The City of Morrison, Illinois, will be upgrading the existing Trickling Filter plant in 2010, to replace worn out treatment plant equipment and upgrade the operational control system. Morrison is located in west central Whiteside County with 4,600 residents and 1,814 wastewater connections.

Shane Osborn is the WWTP
Superintendent, who has been with the
City for 11 years, and is a Class 3 wastewater operator and Dan Milnes is the
Assistant wastewater operator, who has
been with the City for eight years.

'The original WWTP was built in 1940, which consisted of,: one bar screen, one grit channel, two 140,000 gallon horizontal primary clarifiers, a 70' diameter trickling filter and a final clarifier. In 1960 additional treatment units were added, these consisted of: one more bar screen, two more grit channels, one more 70' diameter trickling filter, two 40' diameter final clarifiers, two 50,000 gallons chlorine contact tanks, and an aerobic secondary digester.



Shane Osborne, WWTP Superintendent

With the addition of the two secondary clarifiers, in 1960, the old secondary clarifier was converted to a third primary clarifier. In 1980 the two 70' diameter trickling filters were covered with aluminum, to retain the water temperature, for nitrification treatment to function during the winter months. This was one of the major improvements for meeting year round Effluent standards and the main reason the trickling filters will be retained in lieu of another type of secondary treatment. Also in 1980 a standby diesel generator was installed at the WWTP and can supply power to the entire WWTP.

In 2006, the trickling filter distributor arms were rehabilitated. The primary anaerobic digester was operating until August of 2007. This is when the roof fell inside the digester. The digester is currently used as a sludge thickener. Primary sludge is pumped to the sludge thickener then transferred to the aerated secondary digester. The digested sludge is land applied to farm ground in the

spring and fall of the year. The City will fund the upgrade with an EPA loan. The City did not qualify for a Grant. Baxter and Woodman, Crystal Lake, Illinois, is the engineering firm doing the design on the WWTP rehabilitation.

Improvements to be made in the rehabilitation:



- 1. New lift pumps from the wet-well in the basement
- 2. Install an automatic bar screen
- A Eutek T-Cup grit removal cone.
 The existing three grit channels will be abandoned.
- 4. Rehabilitation of the three horizontal primary clarifiers with new chain, sprockets and flights.
- New scum removal in primary clarifiers will be discharged back to the head of the plant.
- The secondary clarifiers will be sandblasted and painted and both gear reduction units will be rebuilt.
- The sludge thickener tank will be converted to an aerobic digester with fine-bubble diffusers, with sludge transferred to the secondary digester by pumping.
- 8. The secondary digester will have the course-bubble diffusers removed and replaced with fine-bubble diffusers. This will remain as the point where digested sludge is removed for land application.
- The WWTP has seasonal disinfection and uses gas chlorine. May

continued on page 22

Upgrading the Trickling Filter WWTP at Morrison

- switch over to liquid chlorine for safety purposes.
- 10. The WWTP footprint will not change, since the new units will be replacing the old units.

As mentioned earlier, the successful operation of the trickling filters have saved the City of Morrison the cost of a newer technology system for secondary treatment.



Grit channels can be operated indviduially





Aluminum Coverend Trickling Filters



Old anaerobic digester with roof missing



Three-channel grit removal

One of the Five Wettest Years on Record

It is hard to believe that we could have had a wetter year in 2009 than we did in 2008 but news reports that I listened to the other day reported that we were 15 inches above normal in rainfall so far this year. As a purveyor of water it is hard to sell a product when it falls from the sky on a frequency of every other day. This excessive rainfall, coupled with a slow down in new housing construction, has had a negative financial impact on our company, Jersey County Rural Water and in talking with other water companies; they are experiencing the same effect. I know that in our case it has been the worst 2 years in the past 20 as far as water sales and new construction and has put a strain on the company's operating budget. The lower sales revenue has made it difficult to keep expansion projects going for future growth of the company as well as complete projects like tank paintings and pump station upgrades.

The extreme rainfall over the last 2 years has also had led to unexpected expenses in several other ways. These additional expenses include water main and service line repairs and replacements due to washouts in ditches and creek beds. In many cases, the large amounts of rainfall has changed the creek channels or widened the ditches resulting in main washouts. The erosion of the creeks and drainage ditches necessitated

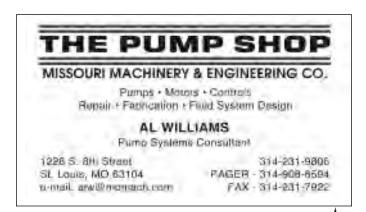
the re-boring and installation of new pipe to prevent an unwanted or unplanned outage of water service. The past two years we have seen an excess of over 15 such washouts in a 3 county area that we know about, totaling about \$120,000.00 in damage. The



excessive rainfall has also slowed down our in-house construction work as well as our contracted construction work which is occurring on the 67 corridor for the extension of Highway 255. These state projects have deadlines which have become increasingly difficult to meet due to the wet conditions. If (and that is a big IF) you can complete a project, then the clean up efforts become difficult (if not impossible) due to wet soil conditions and the very short windows to get the work done.

The old-timers say that basements that have never seen water before can no longer lay claim to that enviable fact. I'm sure that a lot of you readers have been affected in some way or another by all of the record rainfalls this past year and hopefully, 2010 will be a year with less rainfall and more sunshine. Happy New Year!





A set of goals would empower you and you could then proceed to begin and follow your journey or voyage by setting your desired goals. Goal setting is indeed very necessary if you would like to empower yourself, as it is the initial step towards a more satisfying and fulfilling life. So to use personal empowerment to develop and further enhance your life, ample support from family, friends and relatives are essential and you need discipline as well to create and come up with the right and best decision in your life. Goal setting could be in the form of the achievable and the feasible and also,

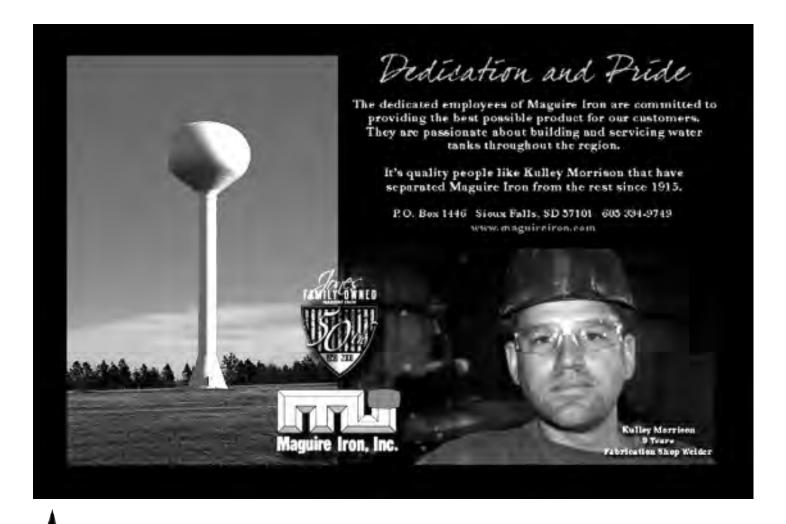
those which are not within your ability and your budget but that could be addressed later.

Personal empowerment will allow you to follow the dreams that are not within your means now. Take those small steps and set attainable and reachable goals within a brief time frame so that you would feel empowered when you accomplish them. Achieving goals become easier as you pursue and persist to empower yourself. You could take your time to experience your growth personally as it can be very empowering to aspire to move on and be more in life. There are

several rewards you can reap to personal empowerment but you really need to think forward as goal setting would enhance your life for the better and likewise help you to attain more.

Inspiring moments are also helpful and it could enliven you more and move on to pursue and foresee more personal goals. As you pursue and reach every small goal, you can see positive and better changes in you and the succeeding set of goals become more and more challenging. You would begin to look for-

continued on page 25



ward to it and personal empowerment would form a life you truly desire and always dreamed about. Every personal growth would heighten and intensify your sense of power and ideas and ambition are no longer out of reach. You may also need to map out a group or team of action to handle with the several obstacles in life as they delay and postpone one's progress.

Always bear in mind to keep pushing yourself and think positive at all times, as they can be so empowering. Get rid of the negative vibrations and feelings. It will take time, yet try to make it a routine to think more on a positive note.

Turning negative into something opti-

mistic is a good distinctive feature and never, ever giving up as endurance and perseverance and patient and tolerant in overcoming the many barriers and hindrances, and always looking forward is truly important to empower oneself. To create something out of your own life, there are myriad of ways out there but each begins with a small step.

To begin empowering yourself, you have to do things which truly interest you and along the way, you would be the person ever you will hold in high regard. Don't stop empowering yourself because your personal empowerment and growth as a person will bring about self worth and positive image.

About The Author

The author of this article Amy Twain is a Self Improvement Coach who has been successfully coaching and guiding clients for many years. Amy recently published a new home study course on how to boost your Self Esteem overnight.

More info about this "Quick-Action Plan for A More Confident You" is available at http://www.FabulousSelfEsteem.com.

Eleven Commandments Thou shalt not leave the vicious dog unchained VI. to feed upon the leg of thy meter reader. for Water Users VII. Thou shalt not have lake witness against the service man nor shalt thou abuse the ears of Thou shalt receive thy water with gladness and his wife on the phone. shalt give thanks for the days of uninterrupted VIII. Thou shalt not commit cross-connections or in service. any other way endanger the safety of thy Remember thy water bill, to keep it paid, for IL neighbor's water. thou shalt put no other bill before it. Thou shalt not tamper with thy meter nor Honor thy manager and thy board, for they violate any other rule of the system lest thin keep thy water running. days as a user be shortened. Thou shalt love thy water system employees Thou shalt not place an undue burden upon the X. as thoself and shalt not abuse them with nasty system by letting thy water east to the winds notes and not profane their names before others. or needlessly spread upon the dry, parched earth. Thou shalt not pass into the bands of the ٧. Thou shalt not covet the neighbor's bill, if it be XI. bookkeeper checks for which thou bast no funds less than thine own. For whatsoever thou useth, to cover. for that shall thou also pay.



DID YOU KNOW?

That IRWA will come to you and help you study for your certification exam?

IT'S TRUE!



This training is for those operators who desire to further their education and assistance in passing their certification exam. Those striving to become certified operators or for those who want to upgrade their certification will want to take advantage of this training opportunity.

HOW MUCH DOES IT COST?

The cost for materials is \$125.00 per person for members and \$175.00 per person for nonmembers. This includes one Certification Manual and some useful training handouts.

HOW DO I SIGN UP?

Fill out the registration form and send it with your payment to the IRWA office, or to pay by Visa or MasterCard, go to www.ilrwa.org and click on the training link. When your registration is received, we will mail out the training material and notify the staff member in your area. Then the trainer will call you to set up an appointment. This training has also been approved for credit hours. - I credit hour equals I hour of training. You will receive a certificate of completion at the end of training.

Please send your payment along with this form to: IRWA 3305 Kennedy Road, PO Box 6049 Taylorville, IL 62568

(We do not accept faxed registrations)

Call us with questions at:
1-800-762-3547

PRICE

Registration Form

Pre-registration is required \$125.00 Member \$175.00 Non-Member

Name	
System Name	
Address	
Phone	



STATION EQUIPPED WITH AN ENGINE GENERATOR BACKUP PLUS AN EXTRA MILLION DOLLARS AND CHANGE **EQUALS** THE COST OF A 1M GALLON ELEVATED TANKI*

LOWER INITIAL COSTS . LOWER LIFE-CYCLE COSTS . LOWEST COST OF OWNERSHIP

PLUS, the Aquastore tank is designed to the latest edition of AWWA D103, and offers the savings of minimal maintenance, a never-needs-painting finish, and fast erection.

The Aquastore tank has an exclusive glassfused-to-steel coating inside and out to protect against corrosion. This NSF-61 certified, inert. inorganic coating is your best choice for potable water storage systems. More than ten thousand Aquastore tanks have been installed in North America since 1975.

Call Cady Aquastore today for more information on a turn-key package of service, support and expertise from start to finish.

Contact us when you're thirsty for savings!

920 W. PRAIRIE DRIVE SUITE G, SYCAMORE, IL 60178 PHONE: 815-899-5678 | FAX: 815-899-5681

Represented in Northern Illinois Peterson and Matz Inc., Elgin, IL 847-844-4405 Represented in Southern Illinois Municipal Equipment Co., Inc., 5t. Louis, MO 314-645-2400

"Sussed on the everage bid results within the Major disc part 19 morely.







PRESORTED STANDARD U.S. POSTAGE

PAID

Springfield, IL Permit No. 500

