



Water Ways

Volume XIV — Winter 2017



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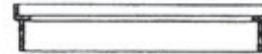
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ARTICLES

The Life and Times of Senate Bill 550 . <i>by Frank Dunmire</i>	4
Adios Amigos..... <i>by Gale Moore</i>	6
Aledo Water and Waste Water Systems <i>by Evan Jones</i>	8
Where in Illinois is this Located?	9
Have You Done Your	
Winter Chores?	10
Please DO Get Your Hopes Up..... <i>by Kate Corbin</i>	12
IRWA 35th Annual Technical Conference	13
Attendee Information.....	14
Registration Form	15
Schedule.....	16
Sessions at a Glance.....	17
Win This CFMOTO CFORCE ATV.....	18
Find Time to Protect Your Source Water	
or the \$ to Replace It..... <i>by Mark Mitchell</i>	19
JUST FOR FUN	
Word Seek.....	25
Word Seek Answer Key.....	20
Member Services	
Chrysler Fleet Program.....	22
Ford Fleet Program.....	23
WaterPro	24
GPS/GIS Mapping Services	26
Video Inspection Services.....	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:

This picture was taken by Gale Moore, former Circuit Rider, of an old railroad bridge on the Mississippi River just north of Keithsburg, Illinois.

Water Ways is the official publication of the Illinois Rural Water Association, P.O. Box 49, 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.



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LIST OF ADVERTISERS

Cady Aquastore.....	27
CoBank.....	11
Coe Equipment, Inc.....	19
Curry & Associates Engineers, Inc.. .	11
Flo-Systems, Inc.....	21
Heneghan & Associates, P.C.....	10
Maguire Iron Inc.....	6
Pittsburg Tank & Tower Maint. . . .	20
Ressler & Associates.....	21
Schulte Supply, Inc.....	2
Taylor Coating Sales, Inc.....	11
Test, Inc.....	20
The Ford Meter Box Co., Inc.....	9
United Systems & Software.....	11
USA Bluebook.....	28
Water Well Solutions.....	12

The Life and Times of Senate Bill 550

by Frank Dunmire,
IRWA Executive Director

On January 28, 2015, Senate Bill 550 was filed by Senator John Cullerton seeking to amend the Illinois Nuclear Facility Safety Act by making a technical change in a Section on legislative findings. When one sees a bill description that states a technical change is being made, you can pretty well be assured it is a shell bill that will be gutted and used for some other issue. SB 550 spent the next 3 months winding its way through the Executive Committee, Second Reading and was finally placed on the calendar for third reading on April 16, 2015. It sat idle on the calendar for the next twelve months and was finally picked up by Senator Steans from Chicago who filed floor amendment # 1 to the bill.

Floor amendment 1 to SB 550 replaced everything after the enacting clause of the original bill and was now called the Lead in Drinking Water Prevention Act. Can anyone guess what the driving force behind this amendment was? If you guessed Flint, Michigan you would have been correct. Some highlights of this amendment include:

- Suppliers shall provide the opportunity for a consumer to self-test his or her water supply and provide testing results to the supplier.
- Suppliers shall compile all data received from consumer-initiated testing...
- Suppliers shall conduct tap sampling in areas in which water mains, water pipes, or other plumbing fixtures have been replaced, repaired, or otherwise disturbed. Testing must be conducted monthly for a minimum

of one year to ensure that lead levels do not exceed either the household action level (15ppb) or federal action level...

- All water suppliers shall publish notices regarding lead in drinking water on their public websites and send physical and electronic mailings to all consumers...

As you might have guessed there was some opposition to the language in this first amendment and a second amendment was filed on May 20, 2016. This new amendment replaced everything after the enacting clause and proposed changes to the Child Care Act of 1969 and the Environmental Protection Act. Some of the more notable changes being proposed included:

- Effective January 1, 2017, licensed day care centers... licensed group day care homes shall have all sources of potable water at the facility tested for lead at least once every 3 years. All samples tested pursuant to this section must be first-draw tap samples.
- As a point of clarification, "Source of potable water" is defined as EACH point at which non-bottled water exits any tap, faucet, drinking fountain, or similar point of use likely to be ingested by children or used for food preparation.
- The owner or operator of a community water supply shall sample for lead at all potable water sources likely to be consumed by children or used for



food preparation in all schools in its distribution system at least once during every 3-year sampling period.

- The owner or operator of a community water supply shall develop and submit to the Agency a plan to compile a comprehensive inventory of all lead service lines within the community water supply distribution system including privately owned lead service lines.
- On or before April 15 of each year, the owner or operator of a community water supply shall submit to the Agency an inventory of all known lead service lines within its community water supply distribution system.

Once again, opposition to the bill's language led to yet another amendment that replaced everything after the enacting clause with changes to both the IEPA and IDPH. By now the bill has grown from ten pages to 17 pages. Some of the high points of Senate Amendment 3 are as follow:

- Require IDPH to, no later than June 30, 2018, adopt rules that (1) establish a program to identify,

continued on page 5

in each school in the State, any lead service line or lead-bearing plumbing that is a lead hazard, as defined in Section 2 of the Lead Poisoning Prevention Act, and (2) require the mitigation of those lead hazards within a reasonable time after their identification.

- Schools shall collect and the owner or operator of a community water supply shall analyze for lead a first-draw sample from representative sources of potable water located at each school within the community water supply distribution system.
- The Comprehensive inventory of service lines remains in this version.
- The owner or operator of a community water supply shall, 14 days prior to beginning planned work to repair or replace any water mains or lead service lines, notify the owners and occupants of all potentially affected residences of the planned work. In cases where a community water supply must perform construction or repair work on an emergency basis or where such work is not scheduled at least 14 days prior to work taking place, the community water supply shall notify potentially affected residences as soon as reasonably possible. When work is to repair or replace a water meter, the notification shall be provided at the time the work is initiated.

Senate Amendment 3 is the version that was finally sent to the floor for a vote with the understanding that more work would be done on the bill as it worked its way through the House. On May 31, 2016, SB 550 was passed by the

Illinois Senate and passed to the House for their consideration and on November 28th House Amendment 1 was filed. This amendment once again gutted the original bill and replaced everything after the enacting clause with proposed changes to the Illinois Municipal Code, Public Utilities Act, the Illinois Plumbing License Law, the Child Care Act of 1969 and the Environmental Protection Act.

I think by now you see where I have been going with this...as the amendments pile up and more stakeholders get involved, the bill's language changes dramatically as does the size of the bill. IRWA testified against the bill when it was in committee as well as several other stakeholders but SB 550 was finally passed out of committee with language from House Amendment 2 attached. However, the only way that the Committee would allow the bill out of Committee was if the sponsors promised to take additional time to work with all stakeholders and come up with a compromise on the bill. To that end, I participated in several phone conferences and a meeting at the Attorney General's Office in Springfield yesterday where compromises to the bill were discussed. From that meeting came House Amendment 3. High points on the compromised bill include:

- K – 5 schools shall collect and pay for required lead samples. They will also be responsible for submitting results to IEPA and IDPH. Community Water Supplies will NOT be responsible for the additional testing.
- On or before January 1, 2018,

the Department in consultation with the Department of Health, shall adopt rules that prescribe the procedures and standards to be used by the Department in assessing levels of lead in water in licensed daycare centers, daycare homes, and group daycare homes constructed on or before January 1, 2000 that serve children under the age of 6.

- The owner or operator of a community water system may agree to pay for the cost of the laboratory analysis of the samples required.
- The advanced notice of planned repairs/replacements is still in but now exempts small systems from the individual written notices.
 - Creating and updating a service line materials inventory is still in but is much less cumbersome as initially proposed.
- Full and partial waivers from the inventory requirement will also be available under certain circumstances where a system can demonstrate no lead was used or an allowed material for service lines.

As of this writing, SB 550 has not yet reached the floor for a vote but it is anticipated that the bill will be brought up during next week's lame duck session. Whatever happens, we will keep you updated. 💧

Adios Amigos

by Gale Moore,
IRWA Circuit Rider
(Officially Retired)

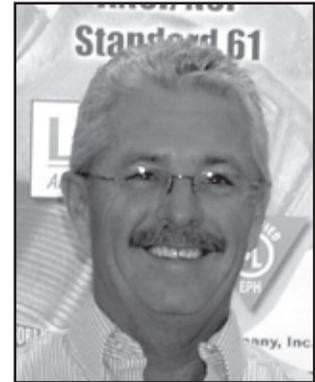
“Goodbye Friends”, it’s time for me to go south to Florida! The warm weather there is calling! A big thank you to everyone at Illinois Rural Water Association and to all the great Operators I’ve met over the 14 plus years working at IRWA.

My career started in my hometown of Alexis, Illinois. I remember the Mayor approaching me one day saying he needed someone to become certified in water and wastewater, and asked if I wanted the job. I worked there for the next 12 years. And in that time, took classes, studied, and received a Class B Water and Class 1 Wastewater certifications. I also did everything else that goes with a small town such

as patching streets, plowing snow, mowing, lab work, sampling, reading and replacing water meters, main breaks, cleaning drying beds, and anything else pertaining to working for a village. (Some things I won’t mention).

My next stop was in Monmouth, Illinois as the Water Supervisor for a 1.25 million gallons per day treatment facility. I made a lot of friends while there in my 12 year stay. Going from a 50,000 gallon per day treatment plant to operating Monmouth’s water plants and distribution system was a great learning opportunity. (Again, some things I won’t mention).

My last stop was with IRWA and what a great Association it is! I started as a Circuit Rider, and then since I did



not have my Class A water certification, was transferred for a short run as a Waste Water Technician. During that time I was able to get my Class A license, and back to being a Circuit Rider I went. The last 14 years sure went fast!

continued on page 7

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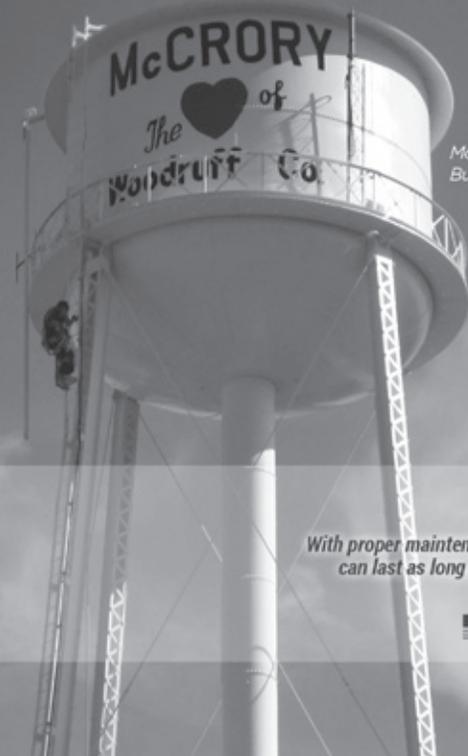
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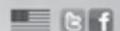
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I will miss my fellow IRWA coworkers, the Operators, and all the experiences I had as a Circuit Rider (well maybe not the windshield time). I have stored many memories that I will reflect on as I'm trying to find my golf ball in the weeds. Thank you IRWA for allowing me to see many states in the great USA... through NRWA's In-Service Trainings and National Conferences. Again, many memories and friends were made. Another banked memory will be the Northern and Effingham Conferences. It still amazes me all the support the Illinois Environmental Protection Agency, Vendors, and Operators give to IRWA, and they can't be thanked enough! Also, thanks to Rural Development for the funding needed to support the Circuit Rider Program and ultimately giving me my paycheck.

Thanks to all the staff, Mark, Chuck, John, Evan, Roger, and Phil; they are a wealth of information... so give them a call (they need the requested contacts). And Thanks to the office staff: Denise and Heather. Your help was greatly appreciated. More than once I asked

Heather," How many vacation days do I have left?" And to Denise," yes I will go back and get the lost gas receipt". Also thanks to Wayne Nelson, I always knew when my logs were not quite right as Wayne would say "Gale, you got a minute?"

And Don, thanks... you were, and are a great Boss and friend, and yes "I will continue to plan my work and work my plan". Frank thanks for being a great Executive Director. I know there were

times when you had to look the other way...some good and some not so good, ha!. One in particular that I will never forget was in Moecherville, while we were doing GPS of meter pits. A pitbull decided to come after me and over the fence and down to the ground I went. Frank didn't know whether to laugh or check on me.

Also, thanks to President Greg Bates and the IRWA Board. There is a lot of donated time and energy involved in being on the Board... and I am, as we all should be, honored to have Illinois' Steve Fletcher as the President of National Rural Water Association!!!

Finally, I probably should thank my wife Trina for supporting me, assisting whenever I needed her to, and for taking care of the home front on my many nights away for work.

Thanks again for the memories!! 💧



Aledo Water and Waste Water Systems

by Evan Jones, IRWA Wastewater Technician and Travis Matlick, Water Superintendent, City of Aledo

The City of Aledo is located in Mercer County. It serves a population of 3,640. They have a total of 1,732 service connections. Aledo uses 395,000 gallons of water a day. They have approximately 32 miles of water main in their system, and 315 hydrants that are used for flushing and fire protection.

The City's water plant is managed by Superintendent Travis Matlick, who holds a Class "A" Public Water Operator's license... as well as a Class 2 Waste Water certification. Assisting him is Josh Bowen who holds a Class "A" Public Water Operator's license as well as a Class 4 Waste Water certificate.

The original water system for the City of Aledo was built in 1889. This system consisted of two drilled deep wells that were approximately 1,300 feet in depth. The new system was put on line in July of 2002. This treatment plant receives water from three drilled wells that are 90 feet deep. The pumps operate

at 1,050 gallons per minute to feed two four-cell iron and manganese removal sand filters. After filtration is complete, 600 gallons per minute is directed to the 648,000 gallons per day reverse osmosis unit. And, approximately 200 gallons per minute is directed to the aerator, and then on to a 300,000 gallon holding tank. Of the 600 gallons per minute that is directed to the reverse osmosis unit... 150 gallons per minute is wasted to a settling lagoon. The remaining 450 gallons per minute of softened water is aerated for carbon dioxide removal. Then chlorine and fluoride are added before being directed to the 300,000 gallon holding tank and ready to travel the ten mile pipeline in to Aledo.

It takes the water traveling to Aledo, three days to arrive to town. It makes this trip through 16 inch ductile iron pipe... with no residual loss. The transmission line itself holds a little over 1,000,000 gallons of water. Once the water arrives in Aledo, it is either used by the



population or is held in one of the two elevated storage facilities. One of these storage tanks holds 150,000 gallons, and the other has a capacity of 400,000 gallons.

After the majority of this water is used for consumption or otherwise, it is then directed down the drains to the city's sanitary sewer system. Once the waste water has traveled through the collection system and three separate lift stations, it is directed to one of two waste water treatment lagoons that the city operates. These lagoons are gravity fed, and consist of aeration, rock filters, and sand filters. The lagoons have an average flow of 350,000 gallons per day between the north lagoon and the south one. This treatment process was all put on line in 1987.

The City of Aledo is still progressing forward... as they are in the process of many upgrades right now, that include the water treatment plant as well as the waste water treatment plants. Travis and Josh do a wonderful job keeping both the water plant and the waste water plants running a peak performance. 💧



Travis Matlick

Where in Illinois is this Located?



WHERE IN ILLINOIS IS THIS LOCATED?

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Have You Done Your Winter Chores?

by Chuck Woodworth,
IRWA Circuit Rider

Another winter season is upon us, have you prepped your system for winter yet? With the temperatures already well below freezing, I'm sure you have found the small things that you may have forgot to do. Hopefully if you did forget something it did not cause too big a problem. I thought I would list a few things that I have found some systems do before the temperatures drop below freezing. They are in no special order, just things that I remember some systems doing. The most common is plugging in a heat tape or heater at the water tower depending on which kind of water tower you have. The pedestal towers I have seen a heater placed near the stand pipe or pressure gauges to prevent freezing of the lines feeding the gauges. Last winter I was called to system to find a leak that was very inconsistent on how much was being lost. Turns out that the heater was not plugged in and during the night the lines feeding the gauges would freeze and the when the tower would get full the pumps would continue to run, overflowing the tower. They were very lucky that the lines did not freeze while the pumps were off, it could have drained the tower before thawing.

The next most common is not replacing or securing down the meter pit lids. It never fails that this happens to homes that are vacant or the owner

is gone for the winter. It also never fails that this meter pit is in an area not visible from the street. I found a meter yoke that had froze, broke the yoke and when it warmed up started running water down the yard after the pit filled. This meter was located behind a row of evergreen trees and was not visible from the street. The lid for the pit was half off the pit. The home owner was gone for the winter enjoying the warmer temperatures in Arizona. Lucky for him the yoke broke on the city side of the meter. It was obvious where the leak was when we walked into the driveway on our way to listen to the meter.

Fire hydrants that don't drain out after using them or it is not completely turned off would probably be next. I have found a few hydrants that froze and either pushed out hose nipple or they will crack the barrel of the hydrant. If the ice starts to push out the hose nipple and a fireman hooks a hose to it and opens the hydrant, that's not a good time to find that out.

My favorite was a system that had built a new Village Hall. The old Village Hall was abandoned, the electric and gas had been disconnected but, you guessed it, the water had not been shut off. The old Village Hall building had been a business of some sort in the past that had a one and half inch service line feeding it. The service line froze and



broke completely off on the inside of the basement wall. It was spraying a full inch and half stream of water across the basement. The basement drain was taking all it could and what could not go down the drain was about four feet deep. When I located and marked the leak on the main under the street in front of the building the operator looked at me and said I know what I did not do last summer as he kicked away some snow to uncover the curb stop shut off. A turn of the wrench "fixed" that leak.

I could go on with more things I have found but I think I will keep those for future articles. Take a moment to think if you have forgotten any winter chores in your system. Stay warm out there and have a safe winter. See you at our annual conference in Effingham. 💧



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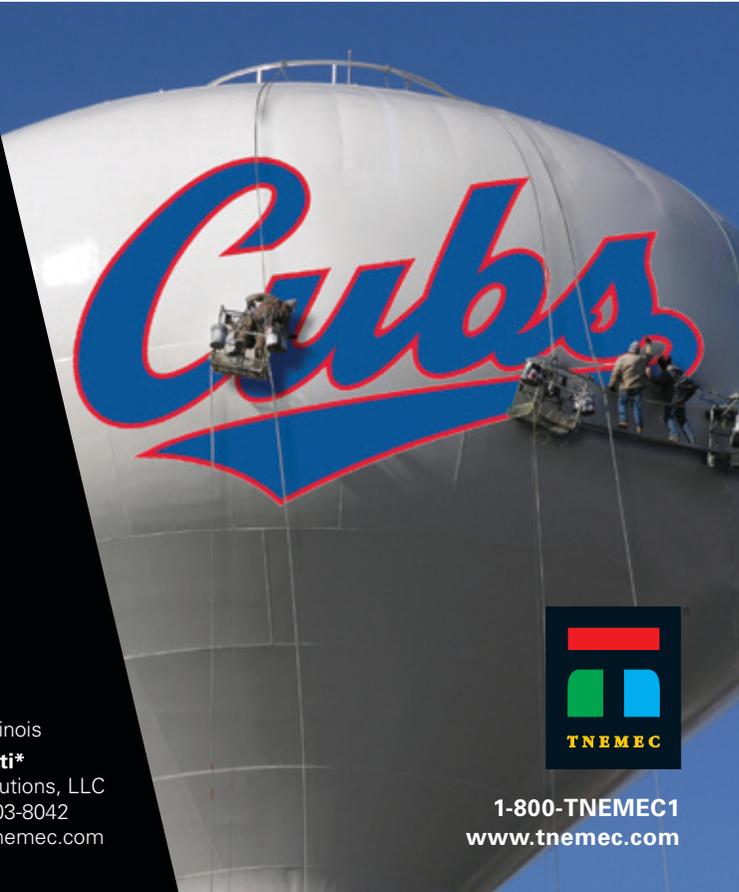
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Please DO Get Your Hopes Up

by Kate Corbin,
Gold Star Coaching

“Don’t Get Your Hopes Up!” We’ve heard that advice all our lives. Family, friends, books and movies have all warned us not to get our hopes up. It’s part of our popular culture. You may even say it yourself, but did you ever think about what you’re saying?

“Get your hopes up!

Expect something good to happen to you every day.”

– Joyce Meyer

“Don’t Get Your Hopes Up!” We’ve heard that advice all our lives. Family, friends, books and movies have all warned us not to get our hopes up. It’s part of our popular culture. You may even say it yourself, but did you ever think about what you’re saying?

Don’t Get Your Hopes Up is possibly the worst guidance ever. It’s advising us not to hope and not to have desires – which can only result in a low vibration.

Like most people, I absorbed this teaching by osmosis. I also remember when I said it for the last time.

I was in my 20’s and I was telling my brother about a job I really wanted, adding that I’m not getting my hopes up about it. Whereupon my older, wiser brother – who had by that time studied Eastern philosophy in India – pointed out how stupid I was being – as only a sibling can! He went on to explain why not getting my hopes up is ridiculous. Thank you, dear bro, for waking me up.

So why IS it ridiculous to avoid

getting our hopes up? Besides the fact that it’s unnatural to quash our hopes and dreams and besides the fact that it keeps our vibration low, it’s all fear-based.

It’s based on some crazy fear that if we don’t get what we’re hoping for, we’ll end up feeling disappointed. But I ask you, is disappointment really too much to bear? Isn’t disappointment a part of life that most of us learned by age 5 is survivable?

Here’s the most significant thing. To refuse to get our hopes up is to ignore the Law of Attraction. Because hope is a high vibration. Because the power of hope and positive expectation actually help us attract what we want. Because hope works for us, not against us!

“If you don’t have a dream, how you gonna have a dream come true?”

– from the movie, *South Pacific*

Plus, I hasten to add, hope feels good! Refusing to be hopeful is a missed opportunity to feel good. And, since we know that feeling good is the best way to attract what we want, refusing to hope is like shooting yourself in the foot.

If you don’t get what you want, you’ll live; you’ll grow; you’ll get greater clarity; something better will come along. But if you continue suppressing your hope, you won’t live well.

And one more thing. Refusing to get our hopes up does not guarantee we’ll avoid disappointment. In fact, refusing to hope sets us up for disappointment.

Two questions:

- Do you want it?
- Will you allow yourself to have it?

If yes and yes, then absolutely do get your hopes up. Get them up as high as possible. Ride the high vibrational energy of positive expectation and enjoy the journey. If it doesn’t happen, so what? Focus on the next desire with all the hope you can muster. And keep hope alive!💧

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

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Pre-registration must be postmarked by February 10th, 2017.

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 21 8:00 a.m.-4:00 p.m.
Wednesday, February 22 8:00 a.m.-3:00 p.m.

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

EXHIBIT HALL

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. 99 companies will be bringing their products and services to you at this year's conference.

The exhibit hall will be open during the following hours:

Tuesday February 21 10:00 a.m.-4:00 p.m.
Wednesday, February 22 8:00 a.m.-3:00 p.m.

EXHIBITORS HOSPITALITY NIGHT

Tuesday, February 21st 5:30 p.m.- 8:00 p.m.

Come down and thank the exhibitors for providing the food and beverages for the evening.

PUB CRAWL

Tuesday, February 21st 7:00 p.m.

Buses will be available again this year for those who wish to go on a pub crawl.

CASINO NIGHT

Wednesday February 22nd 6:00 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. The winners will be announced at the conclusion of Casino night. It is through the success of this raffle that IRWA is able to ensure that continued funding is secured through Congressional appropriations. It is through those



35th Annual Technical Conference

February 21-23, 2017

REGISTRATION FORM Must be completed for all attendees

(Please photo copy for each attendee)



NAME FOR BADGE: _____

SYSTEM: _____

MAILING ADDRESS: _____

CITY: _____ STATE _____ ZIP: _____

PHONE NUMBER: _____ E-MAIL ADDRESS: _____

Registrations must be postmarked by February 10, 2017 to receive pre-registration pricing

FULL REGISTRATION: (Includes technical sessions, exhibit hall, meals & activities for all 3 days)

Member—\$175.00 Spouse—\$175.00

Non-Member—\$225.00 Non-Member Individual Joining as a Member + Conference—\$224.00

ONE DAY REGISTRATION: (Includes technical sessions, exhibit hall, meals & activities for 1 day only)

Member—\$145.00 Spouse—\$145.00

Non-Member—\$195.00 Non-Member Individual Joining as a Member + Conference—\$194.00

PLEASE CIRCLE WHICH DAY YOU WILL BE ATTENDING (for one day registration only)

TUESDAY

WEDNESDAY

THURSDAY

****All fees must be paid when registering—no purchase orders or NO REFUNDS AFTER FEBRUARY 10, 2017**



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Tuesday, February 21st		Registration Open: 8:00 a.m.— 4:00 p.m.	
9:00 a.m.	Opening Session/Awards Ceremony/RD Update		
10:00 a.m.	<i>Break/Exhibit Hall Opens</i>		
	WATER	WASTEWATER	BREAKOUT
11:00 a.m.	IEPA Regulatory Update		
12:00 p.m.	<i>Lunch Buffet—Ticket Required</i>		
1:00 p.m.	Well Rehabilitation		
1:45 p.m.	Algae Detection & Removal Strategies for Drinking Water Treatment Plants	Understanding Foaming & Nitrification in Wastewater Plants	Legal Issues facing your system
2:30 p.m.	<i>Break/Exhibitor Drawings</i>		
3:00 p.m.	Ice Pigging	Biological Nutrient Removal in a Batch Process	More Legal Issues Facing your System
3:45 p.m.	Valve Exercising	Prescription for a Healthy Sewer System	
4:30 p.m.	Water Taste Test		Annual Meeting
Wednesday, February 22nd		Registration Open: 8:00 a.m.— 3:00 p.m.	
8:00 a.m.	<i>Exhibit Hall Opens</i>		
9:00 a.m.	Practical Uses of GIS in Rural Water Systems	An Alternative Approach to Sewer Renewal	Addressing the Rise in Group Health Insurance Costs
9:45 a.m.	What's the Big Deal About Data Management?	IEPA –Bureau of Water Updates	Website Options for Rural Water Systems
10:30 a.m.	<i>Break/Exhibitor Drawings</i>		
11:00 a.m.	Dealing with Tighter Regulations & Skyrocketing Chemical Treatment Costs	IEPA Lab Procedures	Grant Writing & Available Programs
12:00 p.m.	<i>Lunch Buffet—Ticket Required</i>		
1:00 p.m.	Asset Management: Maximize Your Existing Infrastructure	Illinois Lagoons Can Remove Ammonia	Collecting Quality Water Samples
1:45 p.m.	Disaster Recovery	Advancements in Underground Inspection	How to Replace Your Retiring Operator
2:30 p.m.	<i>Break/Exhibitor Drawings</i>		
3:00 p.m.	Corrosion Control & DBP's	Class 1 Math— Activated Sludge	Controlling Flow & Pressure via Electric-Actuated V-Port Segmented Ball Valve & SCADA
3:45 p.m.	Turning Dumb Water Storage Tanks into Smart Tanks	Class IV Math	Chemical Removal of Sludge
Thursday, February 23rd			
7:30 a.m.	<i>Breakfast Buffet—Ticket Required</i>		
8:30 a.m.	Mixed Oxidants		
9:15 a.m.	Coaching the Community Through a Rate Increase		
10:00 a.m.	Break		
10:15 a.m.	Math Made Easy Crash Course		
11:45 a.m.	<i>Closing Ceremony/Grand Prize Drawing</i>		

SESSIONS AT A GLANCE

WATER SESSIONS

Rural Development Update—Mike Wallace; RD- Hear about any changes going on with the Rural Development programs.

IEPA Regulatory Update—Dave McMillan; IEPA - We couldn't have a conference without hearing an update from EPA! Find out what has happened since last year at this session.

Well Rehabilitation—TBA; The Cahoy Group - Preventative measures and "fixes" for positive coliform samples after well rehab will be discussed.

Algae Detection & Removal Strategies for Drinking Water Treatment Plants - Mark Weirich; Hawkins, Inc.— With many treatment & water quality problems associated with algae, Mark will discuss recent findings to help fight against this nuisance.

Ice Pigging - Darin Clarke; Suez Water Advanced Solutions - Using the naturally abrasive properties of ice to remove sediment and foreign bodies, especially crystallized salts & biofilm, from pipes.

Valve Exercising—Jim Bone; Key Equipment— Why we need to and how do you do it. A look at some of the tools available, valve exerciser, valve and vac., GPS etc.

Practical Uses of GIS in Rural Water Systems - Ben Hill; Diamondmaps.com— Live demonstration and success stories from actual rural water systems on using GIS in everyday operations.

What's the Big Deal About Data Management? - Judd Giffin; Giffin Engineering, Inc.— What "data management" really means, why it's so important, how it protects your community, how it can improve the usefulness of your GIS program and much more!

Dealing with Tighter Regulations & Skyrocketing Chemical Treatment Costs - Michael Edelstein; Aqua Smart, Inc./ SeaQuest — Once optimum corrosion control is achieved, all pH adjustment products that are used in the system can be eliminated to reduce costs.

Asset Management: Maximize Your Existing Infrastructure - Kelly Olson; HD Supply Waterworks— Reasons to start a program, assets to collect, and best practices for efficiency.

Disaster Recovery - Greg Crowe; MSA Professional Services— Find out how to begin again after Mother Nature strikes.

Corrosion Control & DBP's - Mike Ricks; Water Solutions Unlimited— Tips on preventing a "Flint, MI" crisis at your plant.

Turn Dumb Water Storage Tanks into Smart Tanks - Ryan Baum; PAX Water— Active tank mixing, in-tank aeration & active residual disinfectant control systems are 3 tools that can yield improvements and make storage tanks a smart & active agent.

Mixed Oxidant Chemistry - Randy Otts; Parkson Corporation— Case studies of on-site generation technology, as well as water quality improvements, and operational savings mixed oxidants provided.

Coaching the Community through a Rate Increase - Dan Van Veldhuizen; USA BlueBook — This class will discuss the difficulties in dealing with councils, boards and public while trying to establish fair and equitable water rates.

Math Made Easy Crash Course - Dan Van Veldhuizen; USA BlueBook— A practical look into the tool box that can solve challenges in your system. Learn two simple tools that solve over 90 percent of all math challenges you will experience in the industry!

WASTEWATER SESSIONS

Understanding Foaming & Nitrification in Wastewater Plants - John Dinneen; AQUAFIX - Hear about the organisms responsible for removing ammonia, their growth rates, conditions they favor, & ways common foam remedies impact nitrifying bacteria.

Biological Nutrient Removal in a Batch Process - Bradley Linsey; Parkson— Impacts of nutrients on receiving waters and how removal of nitrate & phosphorus greatly reduce these impacts. Biology of biological nutrient removal is explained and how this is specifically achieved in the SBR process.

Prescription for a Healthy Sewer System - John Harrell; Helix Laboratories— With the proper prescription, municipalities can avoid SSO's, stop odor complaints, improve safety, boost capacity & extend the service life of their system!

An Alternative Approach to Sewer Renewal - Keith McHale; Environment One Corporation— Sometimes, typical "go-to" solutions for sewer rehab isn't the best way. Learn how low pressure systems are another option.

IEPA Bureau of Water Update—Scott Twait; IEPA— Listen to the updates on the wastewater side of EPA.

IEPA Lab —Michelle Rousy; IEPA— Review of lab procedures and equipment.

Illinois Lagoons Can Remove Ammonia - John Hinde; Air Diffusion Systems— The aerated-facultative lagoon process remains the most cost effective & energy efficient form of treatment available today. You will hear 4 case studies in this session.

Advancements in Underground Inspection - Jim Bone; Key Equipment & Supply Co.— Demonstration of new technology in video inspections.

Class I Math—Activated Sludge - John Bell; IRWA— Having trouble with your wastewater math? John can help you out!

Class IV Math - John Bell; IRWA— Stick around for tips and tricks for Class IV math.

BREAKOUT SESSIONS

Legal Issues Facing your System - Mike Antoline; The Law Office of Michael Antoline— Mr. Antoline always has great topics regarding legal issues that all systems face at one time or another.

Addressing the Rise in Group Health Insurance Costs - Jeanie Cunningham; Mike Keith Insurance— An overview of the new NRWA Healthy Benefits Program and how this program relates to your system and staff.

Website Options for Rural Water Systems - Shelly Howay & Shannon Farmer; Rural Water Impact— Start up a website for your system with minimal knowledge of websites or coding!

Grant Writing & Available Programs - TBA; Heneghan & Associates — Learn about the technical aspects of grant writing and what grant programs are available.

Collecting Quality Water Samples - Chris Jones; Kupferle Company— New guidelines & language about dedicated sampling stations from the RTCR and an eight step "best practice" guide for collecting quality samples.

How to Replace Your Retiring Operator - Drew Hoelscher; SIUE—ERTC— The history of certified operators, how to become certified, and things to think about when your operator retires.

Controlling Flow & Pressure Via Electric-Actuated V-Port Segmented Ball Valve & SCADA - Jim Mimitz; Navionics— This is a novel combination to help control the rate of flow. Case studies will be presented.

WIN THIS CFMOTO CFORCE ATV AT THE 2017 ANNUAL CONFERENCE!



The ATV is a 2016 493 cc 4x4 CFMoto CForce 500-B. Retail price is \$5,500. It has been graciously donated by National Wash Authority to be raffled off in Effingham at the 2017 Annual Technical Conference. Tickets are currently on sale for \$10.00 each or 3 for \$25.00, and can be purchased from any board or staff member. You do not need to be present to win.



Find the Time to Protect Your Source-water or the \$ to Replace It

*by Mark Mitchell,
IRWA Source Water Protection Specialist*

How many times have you said that you need more hours in a day, more days in a week and more weeks in a year... to get everything done that is required and expected from you? As I write this, another year is fast coming to a close and as you read this a new year will be well under way. How many times this past year did you say, "When I get all caught up with all that is required of me, I want to take some time to do some things that I have needed to do, but have not had the time.?" I know that has been the case all too often for me. Unfortunately it seems like "getting all caught up" seldom arrives and when it occasionally does, it doesn't last very long. Some pressing issue comes up and another fire as to be put out. So the best intentions go out the window and another year passes and we never got those little extras completed that we had such high hopes for.

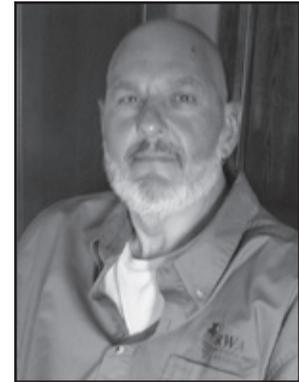
I have also found that the things that I make my highest priority, I somehow find the time for them. I almost always find time for a meal, yet taking that walk for exercise... that is a little harder to "make time" for. I guess the lesson here for me is that I need to prioritize my responsibilities and those things I want to accomplish and make sure the things that are most important are given the highest priority.

My thoughts, of course, as always are centering on finding or making the time to protect Illinois' precious source waters. I have said it before and will say it again... all those rules and regulations won't mean a thing if you do not have a

source of potable water. If you no longer have a viable source for water, then a lot of the responsibilities that are piled on you now will be gone. Will you become an unnecessary liability as well?

I have read a series of articles recently about loss of wells due to contamination and one of the answers to well contamination problems in certain areas is a renewed interest in wellhead protection. Oh, if only we could see the wisdom and fiscal responsibility of protecting our source, BEFORE the contaminants show up. All too often I have set up appointments to discuss Source Water Protection and they get put on the "back burner" because other things take or are given a higher priority.

I want to take a minute to remind all of you out there who have been wanting to get around to starting a Source Water Protection Program, yet just can't seem to find the time to do so. In Illinois in 2017; some public water supply WILL discover some new contamination issue in their source water. It may not be serious or life threatening, but you can certainly bet it will only add exponentially to that



already large pile of things that have to be done. It will cost that system in both direct and indirect costs. Those costs will include higher treatment costs if not the complete loss of the source water supply. Loss of consumer confidence will be an indirect cost that must be factored in. That system will find the money for treatment costs and will improvise as the industry always has, but they will pay dearly for many, many years, the debt of lost consumer confidence, and there will always be that little nagging doubt in the back of that operator's mind... "Should I have made Source Water Protection a higher priority?" 💧

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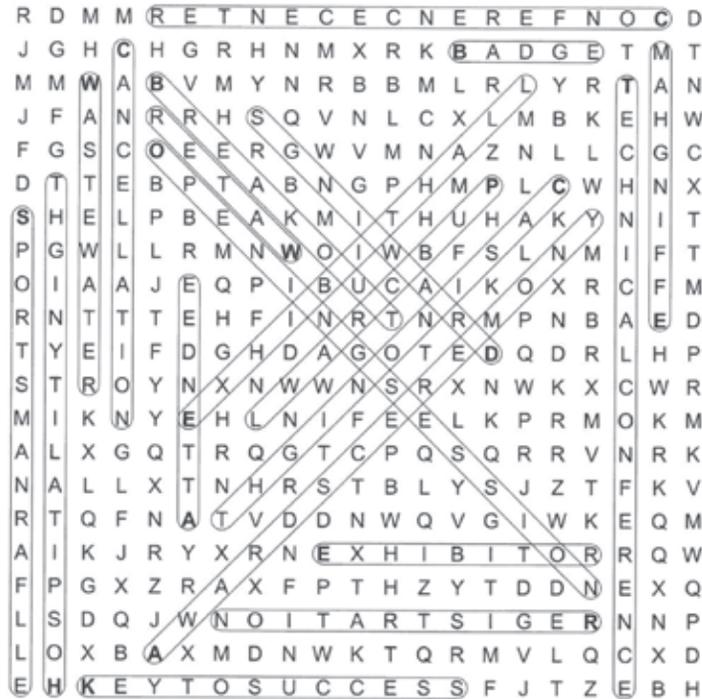
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Answers
for page 25



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Chrysler Group Fleet Program



The National Rural Water Association and the Chrysler Group have created a partnership to offer a Volume Incentive Program (VIP) to State Rural Water Associations and their utility system members. This partnership combines the buying power of 31,000 individual utilities to provide reduced fleet pricing on utility vehicles. You will have access to special fleet benefits as a preferred Chrysler Group customer.

The Rural Water Fleet Program is a valuable member benefit for water and wastewater utilities. State Rural Water Associations determine eligibility for their members, and provide a fleet code that allows access to substantial vehicle discounts to fill the need for reliable work vehicles. Fleet vehicles must be registered in the name of a member system or company.

Member utilities should contact their State Rural Water Association to access the Rural Water Fleet Program. Vehicles may be purchased at your local dealer or through the national fleet auto group, details are online at:

www.nrwafleet.com. Incentive discount pricing is available on Jeep SUVs and Ram trucks. Systems can save up to \$6,750 off factory invoice per vehicle. Happy shopping!



2016 Program Details

- Entities must be current members of State Rural Water Associations to be eligible
- There is no limit to the number of vehicles that can be purchased under the program
- Incentive pricing is deducted off the factory invoice
- Call your State Association today to get your Fleet Account Number (FAN)

Eligible Vehicles	Incentive	
Ram 1500 Quad/Crew	\$6,000	2WD 4WD
Ram 1500 Regular Cab	\$3,000	2WD 4WD
Ram 2500 Crew/Mega	\$6,750	2WD 4WD
Ram 2500 Regular Cab	\$6,750	4WD
Ram 2500 Regular Cab	\$4,500	2WD

Eligible Vehicles	Incentive	
Ram 3500 Chassis Cab	\$2,500	2WD 4WD
Ram 3500 Crew/Mega	\$3,500	2WD 4WD
Ram 4500 & 5500	\$2,500 to \$3,500	2WD 4WD
Ram Promaster	\$5,500	2500 2500
Jeep Patriot	\$3,000	2WD 4WD

Example incentives only. Many other option or powertrain items can be utilized under the VIP program.



Ford Fleet Program



The National Rural Water Association and the Ford Motor Company have created a partnership to offer special fleet discounts to State Rural Water Associations and their utility system members. This partnership combines the buying power of 31,000 individual utilities to provide reduced fleet pricing on utility vehicles. The Ford Fleet Team is #1 in commercial fleet customer satisfaction according to surveys.

The Rural Water Ford Fleet Program is a valuable member benefit for water and wastewater utilities. State Rural Water Associations determine eligibility for their members, and provide a fleet code that allows access to substantial vehicle discounts to fill the need for reliable work vehicles. Fleet vehicles must be registered in the name of a member system or company.

Member utilities should contact their State Rural Water Association to access the Rural Water Ford Fleet Program. Vehicles may be purchased at your local dealer or through the national fleet auto group, get all the details you need online at: www.nrwafleet.com. Incentive discount pricing is available on fuel efficient cars, vans, SUVs and trucks. Systems can save up to \$5800 off factory invoice per vehicle. Happy shopping!



2016 Program Details

- Entities must be current members of State Rural Water Associations to be eligible
- There is no limit to the number of vehicles that can be purchased under the program
- Incentive pricing is deducted off the factory invoice
- Fleet vehicles must be in service for a minimum of 12 months or 20,000 miles
- Vehicles must be registered and operated in the United States
- Call your State Association today to get your Fleet Identification Number (FIN)

Eligible Vehicles	Incentive	Exclusions
Focus	\$1400	BEV
Fusion	\$2400	Hybrid Energi
Taurus	\$3300	Police Interceptor
Econoline	\$4500	
Edge	\$2500	
Escape	\$1800	
Expedition	\$4000	

Eligible Vehicles	Incentive	Exclusions
Explorer	\$2700	Police Interceptor
F-Series Super Duty F250-F550	\$5800	
F150	\$5500	
F150 4x2 Reg Cab	\$3900	
Transit	\$3500	
Transit Connect	\$1500	

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GPS/GIS MAPPING SERVICES

Through the implementation of GPS & GIS technology, IRWA can effectively produce hard copy and digital maps. With this new service available from IRWA, utilities can attain new and accurate maps to better manage their infrastructure assets.

The printed maps can be large-scale wall maps up to 36"x48" showing major water and wastewater features with the desired layers (aerial photos, streets, topography, etc.). The printed maps can also be generated into a map book format. The map book is a bound 11"x17" book of high-detail maps printed at the best available scale.

The digital map file on a CD, can be viewed and printed with free software that IRWA will provide. The software allows you to click on a waterline with a leak and highlight which valves need to be closed to isolate the line. There are also tracing features to show the direction of water flow, and other useful features.

Payment for services is determined by a charge per each system feature located. The amount charged for a Map Book will be \$50 plus \$5 per page; and a wall map is billed at \$100 per map. More information is also posted on our website at www.ilrwa.org or you may call our office at 217-287-2115.



VIDEO INSPECTION SERVICES

Video inspection technology can help you identify and prioritize maintenance issues, while improving service and reducing emergency maintenance costs.

IRWA is excited to introduce our new Video Inspection Service to our members. The normal fee for this service is \$350.00 for small projects, larger projects requiring more than 1 day will be based on cost per foot.

A contract must be signed in advance of the inspection. Upon completion, your system will be invoiced for the services and will also receive a detailed report including diagrams of the inspection features, and a DVD for your references.

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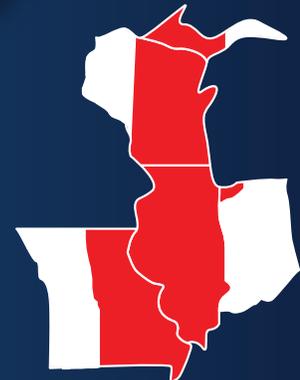
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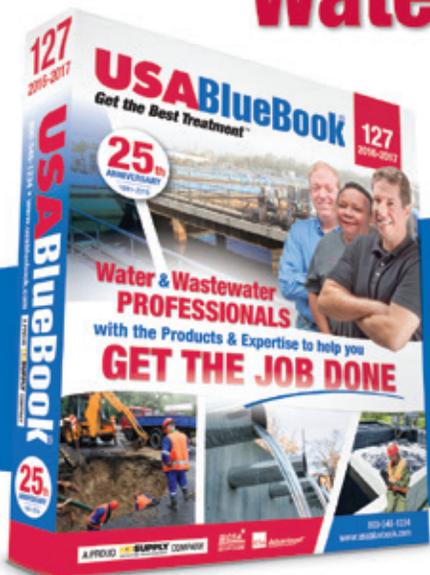
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