



# Water Ways

Volume XIX — Winter 2022





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# Illinois Rural Water Association



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## 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 photo was taken by Chuck Woodworth, IRWA  
Circuit Rider, outside of Lostant, 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](http://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](mailto:ilrwadb@ilrwa.org).



Find us under Illinois Rural Water Association

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## Professionalism

by Frank Dunmire,  
IRWA Executive Director

From time to time, the Illinois Rural Water Association is contacted by the Illinois Environmental Protection Agency (IEPA), Illinois Attorney General's Office (IAG), United States Environmental Protection Agency (USEPA) and/or the United States Attorney General's (USAG) Office asking for IRWA's assistance in working with a community water supply that is struggling with some sort of compliance issue or issues. Recently, IRWA completed assisting the IEPA and IAG with such a system that had multiple violations – most notably Arsenic exceedances. This system will go unnamed in this article, but I can reveal that it was a mobile home community in east central Illinois that was under a compliance commitment order for the IAG and was in the process of “closing” the park. It is my understanding that, by State Statute, all residents must be given at least 12 months advance notice of a park closing. This notice was given by the park's owner to the dozen or so residents still living in the mobile home park. In August of 2020, IRWA agreed to come on board as the park's contract operator for what was initially believed to be a three-month period. It was thought that the park would be closing in mid-November, but a world-wide pandemic changed that when an eviction moratorium was put

in place across the country. The park finally closed on December 9, 2021.

When IRWA agreed to become the contract operator, it sought, and was given, assurances that when a maintenance issue inevitably arose that there would be financial resources to deal with them. Going in, IRWA had already determined that their main well (one of two) had been running 24/7 for approximately 6 months due to a leak in the system. So, you are probably wondering how this fits into the title of this article. Read on as I try to use this experience as a segway into how professionalism relates to the water/wastewater industry.

As an article on the Mind Tools website points out, professionalism is a powerful quality that will allow you to complete your job to the best of your ability. Professionalism

should impress and inspire others while giving you a deep sense of satisfaction and self-worth. Professionalism involves being reliable, setting your own high standards, and showing that you care about every aspect of your job. It's about being industrious and organized, and holding yourself accountable for your thoughts, words, and actions. As the saying goes, “Professionalism is not the job you do, it's how you do the job.” We will look at a few key characteristics of professionalism.

1. Competence: A professional will not only get the job done, but they will also get the job done well while



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usually exceeding expectations. To accomplish this, a true professional will not be afraid to seek assistance if needed. In the case of the mobile home park, the previous contract operator was not seeking assistance and performed his or her duties very poorly. I do realize that at times you are at the mercy of an owner, manager, or city council to provide needed resources but when they do provide them, and they sit on a shelf unused this is a sign of a person that is not performing their job as a professional. When IRWA walked into the water treatment building at the trailer park a lot of the ceiling and insulation was hanging down while there was a box of nails, hammer, and wooden furring strips on the shelf.

2. Knowledge: Knowledge is a key component of becoming more professional. It is only through expanding of one's knowledge base with current rules, regulations and technology can one become a better professional – especially in the fast-paced water/wastewater industry. It would be unfair to say that the owner of the mobile home park or the former contract operator was not knowledgeable, but it would be fair to say that they were overwhelmed by the events happening around them. It would probably be safe to assume that if assistance was sought after early on things might not have spiraled out of control to the point they had.
3. Respect: I cannot over-emphasize how much respect has to do with professionalism. Not only others respecting you, but you are respecting others as well. And by that, I mean respect everyone, not just those you feel you need to impress. You will quickly earn respect when you show that you truly respect other people by taking their needs into account. This was not the case in the mobile home park. Owners ignored the health and wellbeing of their tenants for several years and, as a consequence, their tenants lost all respect for them.

As we all try to move our profession as water and/or wastewater operations specialists forward, we must all strive to become more professional each and every day of our career – no matter where we work.

In closing, I want to bore you with just one more story about the lack of professionalism that came to mind as I was writing this article. A few years ago, I completed an in-depth rate study for a small village that was struggling to make their loan payments. As part of that rate study, I discovered that they had about 50 meters that were not registering and were being billed the minimum each month. Obviously, this was of concern as a loss of revenue and you would think, that, as a professional, the operations specialist would have wanted to replace those meters as soon as possible. Sadly, you and I were both wrong in thinking that. On the shelf, in their water plant was 12 brand spanking new meters. When asked why they had not been installed, the operator told me that “if he put them in, then he would not have any spares” – true story. Sometimes you just have to shake your head and walk away.

Let's all do our best to elevate our industry to a level it deserves by becoming more professional! 💧







## History in the Making?

*continued from page 6*

put together a program that will provide the necessary info in a 24-month period that will flash across their mind's screen and be absorbed. What has taken most of us decades to gather will be presented to these individuals in a short zip file method. The main intent is to get them up to speed as fast as possible, so they can take the reins and guide us through the 21st century.

How?..... I am so glad you asked. One way is by creating the Water and Wastewater Apprenticeship program nationwide. Currently most states across this great nation, with the help of National Rural Water Association, are putting these programs together. Something that most of us already know is that our industry has moved to the elite status. Really, it's always been that way we just haven't done a very good job getting the word out about how great a career the water and wastewater field can be. Over the next decade, the water and wastewater industry is expected to lose between 30 and 50 percent of the workforce to retirement alone. Interested individuals must complete an application and if all the criteria is met, they would be placed on the eligible apprentice pool list. Municipalities looking to fill the shoes of retiring employees or simply fill an unexpected opening must also meet the criteria in the apprenticeship program standards to be eligible.

To learn more about the apprenticeship program, please visit our website at [www.ilrwa.org](http://www.ilrwa.org). In closing, be very proud of what you do by working in the Water and Wastewater field

and know that you do make a difference as you strive to provide safe potable water and /or properly treating wastewater before returning it to the waterways of Illinois. Until we meet again stay healthy, work safe and best wishes. 💧



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## See You in Effingham!

by Chuck Woodworth,  
IRWA Circuit Rider

A lot has been going on since my last article. Leak locates, NAP samplings, certification trainings, conference planning and other things that I have surely forgot about. Trying to decide or figure out what the topic on this article should be is usually the hardest part about typing an article. I've been with the association for 24 years now and you would think it would be easy after doing so many over the years.

Speaking of conference planning, if you have never attended the Illinois Rural Water annual conference, you should consider attending this coming February in Effingham. The annual conference is a 2 ½ day event with training sessions that all the staff have been planning since the last conference. The training sessions will offer around 13 continued credit hours. Over 100 exhibitors would be happy to talk to you about the latest and greatest advancements of tools, equipment and treatment options during the 2 days that they will be set up in the exhibit hall. We always make sure to have plenty of tasty food during the day as we don't want anyone's belly growls to drown out the speakers. After the training ends for the day, we have entertainment planned as well. Recently during my travels, I have talked with several operators who have never attended this conference. Be sure to bring some extra cash for a chance to win some awesome prizes during the sportsman raffle that is always a big hit with everyone. Make your hotel reservations and sign up to attend when you get the registration form. Block off your calendar for February 15 – 17, 2022 in Effingham Illinois. I am sure it will be another great conference.

NAP samplings, Nitrification Action Plan is the new term found in most EPA evaluation reports. This is something that new

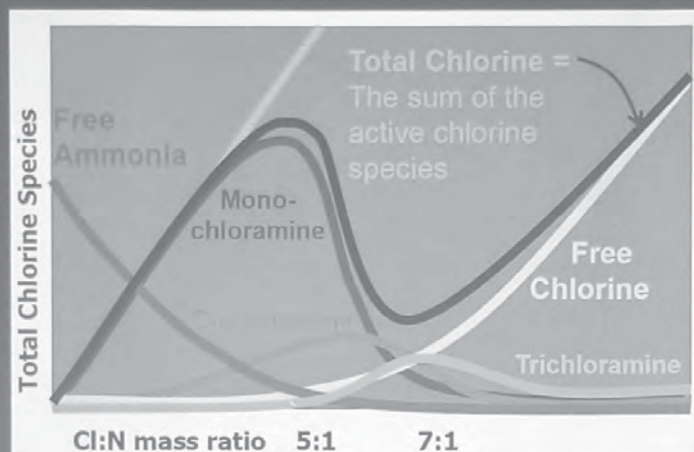
that the EPA would like for each system to monitor and report on. It is something that is easy to complete if you have the proper testing equipment. The association has made the purchase of a few SL-1000 test machines just for doing the testing to determine if you should purchase added equipment to

satisfy this requirement. We offer testing to determine how much free and total ammonia is in your raw water and how much your treatment process can remove and to find out how much is still in your distribution system. After finding this out some places that I have been to is able to control what is left in the system by some simple chemical changes in the treatment process. The main thing is the amount of chlorine you are feeding and or able to feed. It all depends on the amount of ammonia that is in your raw water. I have learned that the amount in the raw water varies from system to system. I have also learned that back when I was a water operator, we had ammonia in our raw water and was not fully aware of how much we had. Looking back that was the cause of most of the problems we had in the distribution system 25 years ago. Along with the Ammonia other things that should be monitored and recorded are Nitrate, Nitrite, Monochloramine,

Dichloramine, Chlorine total and Chlorine free. There is other testing equipment that will give you results for each of these, but it is my opinion that the SL-1000 is the most user friendly. All the Association Circuit Riders have one of these and would be glad to stop in and show you how to use it while testing your raw and finished water. After learning what levels is in your water the next step would be determining if you should be developing a Nitrification Action Plan for your system. Breakpoint Chlorination is especially important in reducing Ammonia as you can see from the picture of the breakpoint curve. If you can maintain breakpoint chlorination you should have the Ammonia under control. You can talk to other water operators while attending the conference about this and other things as well. Hope to see you in Effingham February 15-17. 💧



### Breakpoint Chlorination



## The Original SCADA

by Evan Jones,  
IRWA Circuit Rider

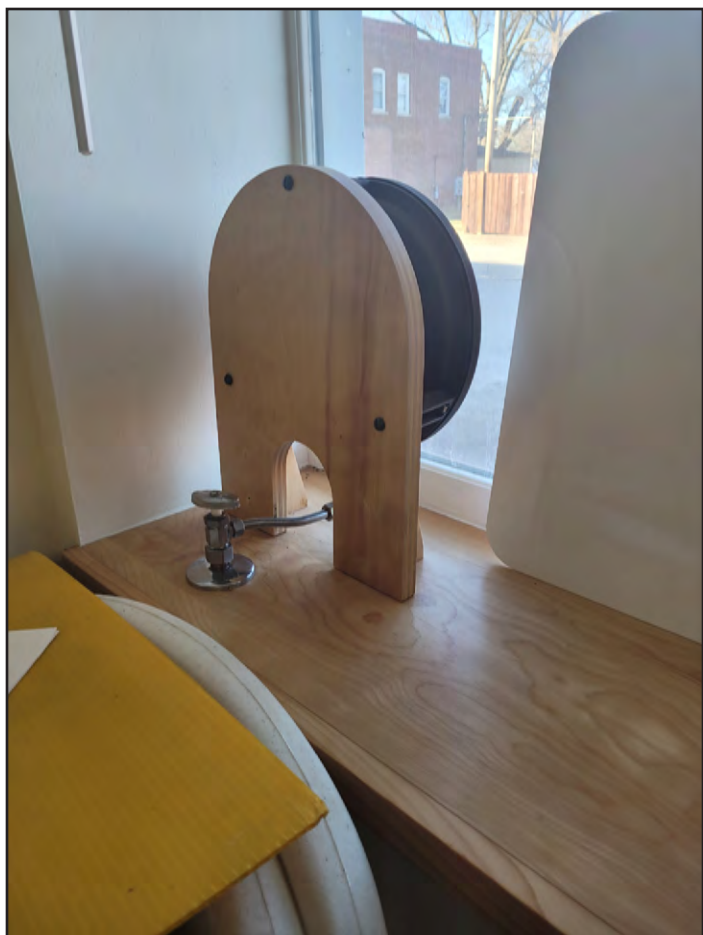
Recently, I was in a small village that had the neatest SCADA system that I have had the pleasure to see in quite some time. By no means was it anything fancy nor was it expensive – no PLC's, no major computer investment, and no radios involved. It was simply a large pressure gauge in the window of village hall that sits right on the main street in town where anyone can drive or walk by to see it. However, they do have a more advanced dialer system with alarms at the water plant and at their wells. So why the simple pressure gauge at village hall? You see, this village's water plant sits quite a distance outside of town – roughly 10 miles. Now, the tower does sit in town but to read a gauge there, one would have to stop, get out of their vehicle, unlock a door at the base of the tower to be able to read a pressure gauge there. That doesn't sound like it takes a long time, but as many of you well know, convenience is essential if relying on the public to be your eyes and ears. How much easier (and convenient) could they have possibly made it? The

Mayor, the Clerk, and Joe Coffee Drinker that's downtown at 6:00 a.m. having coffee, walk past the gauge, see it, and thinks - that doesn't look right. If that is the case, they also have emergency numbers posted in the window right next to the pressure gauge.



They always say it takes a village to raise a child. Well, this community has taken it one step farther in that they are all in this together. I hadn't mentioned it yet, but a lot of our members will understand this on many different levels as well. This village is like so many others in that it has only ONE maintenance

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worker. So having this gauge and having caring customers goes steps farther. No need to change phone numbers on a dialer or anything technical like that – just have everyone swing by the village hall and read the gauge when they are downtown – easy peasy! This gauge just struck me as an aha moment. With all of internet and cellular services/networks that can be used, this simple gauge in the window has proven to be a fail-safe method of ensuring the tower has plenty of water in it. No power needed, no internet network, no cellular service, no radio, no nothing. It's just going to tell you the facts.

Most of you reading this article, know that I'm still considered to be of the younger generation in this industry, BUT even I remember the old land line dialers as well as flashing lights at lift stations that, if it's raining hard, or has been raining for an extended period, you drive that extra block or that extra mile just to make sure no lights are flashing or horns sounding.

That all brings me to another short, yet memorable, story of my first summer working for the City of Havana which also involves the use of a simple pressure gauge. We were having our newer tower taken out of service to be inspected, sandblasted, painted and any other necessary repairs made. Easy job, right? I was assigned to third shift by myself. It was only supposed to be three weeks. The reason for three shifts is because Havana's smaller tower had no telemetry system to start and stop the plant, so we operated the plant by watching pressure gauges. Still no big deal – after all, it was just for three weeks, right? WRONG! My first venture into shift work ended up being three months of thirds because of some extensive repairs to the standpipe that need done. But we prevailed with just a pressure gauge.

I guess the moral of my small stories is that all the SCADA systems, dialers, high level flashing lights, and screaming alarm sirens are great but they will never be able to totally replace the original, trusty pressure gauge. Remember – when in doubt with all the fancy stuff, go back to the gauge. No power needed, no cellular service needed, nor a WIFI connection needed. I'm sure there are many of you out there that think the same and have your own little gauges and tricks of how to tell that your system is or is not running correctly.

Hope everyone has had a Merry Christmas and a Happy New Year!!! See you all at some point in 2022!! 💧

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**Contact your State Rural Water Association or National Rural Water Association for help with the application process.**

### For More Information:

Applications, information and forms can be downloaded from the NRWA website, [www.NRWA.org/loans](http://www.NRWA.org/loans).

Email applications to: [nrwarwf@nrwa.org](mailto:nrwarwf@nrwa.org)

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For help, please call 1.800.332.8715 or email [nrwarwf@nrwa.org](mailto:nrwarwf@nrwa.org).



National Rural Water Association working in conjunction with US Department of Agriculture/ Rural Development



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- **Becoming a Certified Water or Wastewater Operator**—Training > Water > under table
- **Boil Order Notice**—Resources > Downloads
- **Certification Overview from IRWA**—Training > Certification
- **Certified Water Operator Contract**—Resources > Downloads
- **CEU Forms from past conferences**—Training > Conferences
- **CEU's from CD training**—Training > CD's
- **Cross Connection** (manual, survey & ordinance) - Resources > Cross Connection
- **Current hot topics and upcoming events** - Home
- **E-CCR**—Services > e-CCR Hosting
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- **Mutual Aid**—Resources > Downloads
- **NFP Tax Forms** — Resources > Downloads
- **NRWA Fleet** - Membership > Benefits—click on the NRWA logo
- **Operator Groups**—Resources > Links
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- **Rate Study**— Services > Rate Study
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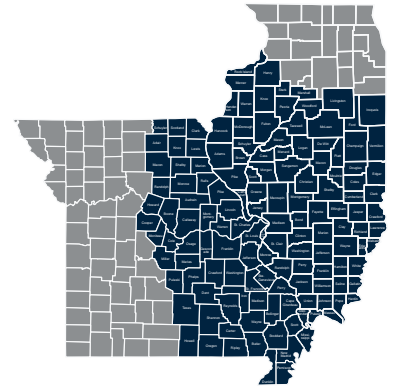
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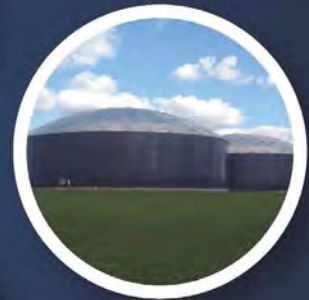
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## FREE RATE STUDY

### Why Have a Rate Study Conducted?

With the amount of grant dollars available for water and wastewater projects continuing to dwindle, coupled with the aging water and/or wastewater infrastructure, it is increasingly more important that decision makers for systems throughout the state become more educated about system finances. This **FREE** rate study takes an in-depth look into the expenses and revenue that a system has. Once all of the data has been gathered and entered into a spreadsheet a detailed report is generated to explain the findings and recommendations. This easy to read report and any rate changes recommended will assist Boards and Councils in mapping out the financial future of their respective systems.

If your system is interested in having a rate study conducted, please contact Clark Cameron at (217) 287-2115(Office) or (217) 820-3814 (Cell).

### What Information Will the Rate Study Provide?

- ⇒ Breakdown of expenses
- ⇒ The cost to produce the water (if applicable)
- ⇒ Amount of nonrevenue water
- ⇒ Amount of lost revenue from water loss
- ⇒ Annual gain or shortfall in revenue
- ⇒ Different rate scenarios



### What Information Will I Need to Supply For a Rate Study?

- ⇒ Financial statements for the most current fiscal year (audit report preferred)
- ⇒ Amount of water produced and/or purchased during the most current fiscal year
- ⇒ Amount of water sold during the most current fiscal year
- ⇒ Current rate structure
- ⇒ Number of customers in each rate class
- ⇒ Amount of debt (if any)



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\*Note: minimum riser must be 1/2" more than thickness of existing lid



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Visit <https://nrwa.org/members/products-services-portfolio/fleet-program/> for up-to-date information.



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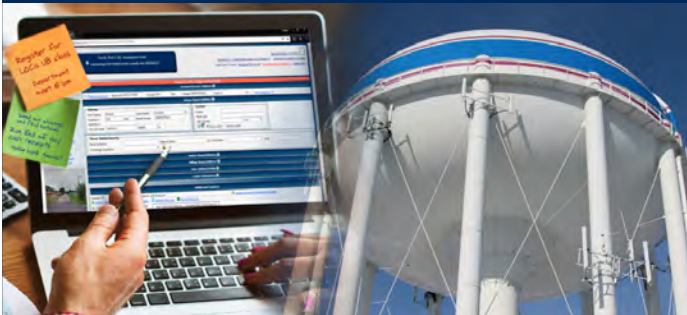
## IRWA Support Letters Are Needed

IRWA employees are dedicated in helping the water and wastewater systems throughout the state in making onsite visits and providing technical assistance in helping to ensure your systems have safe and quality water.

Please take a moment to thank any or all of the IRWA employees who have helped your system by writing an appreciation letter on your letter-head and mail to:

Illinois Rural Water Association  
P.O. Box 49  
Taylorville, IL 62568

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## What it Takes

by Marc Lemrise,  
IRWA Circuit Rider

An older water operator once told me, “I ain’t no electrician, but I can usually fix the problems in my water treatment plant. I ain’t no scientist, but I know how to test water for a dozen different things. And I sure as heck ain’t no attorney, but I can navigate through EPA’s regulations.”

That statement stuck with me as I travelled the Northern part of the state visiting numerous public water supply systems. On those visits I’ve seen many of you doing major repairs on trucks, tractors, and other equipment. In a large municipality, employees must specialize. But the smaller the systems require a much wider skill set. Often the responsible operator in charge is also the public works superintendent, the building inspector, or even the police chief. Routine maintenance like painting, overhauling chemical feed pumps and cleaning injectors will always be a part of the water operator’s job, but often overlooked are the other skills that are required to run a small town. I’ve listed some of them, but I’m sure there are more that I haven’t.

It would be fair to say that at least to some degree, a small system operator must be:

- Heavy equipment operator
- Automotive mechanic
- Civil engineer
- Chemist
- Office manager
- Public relations/personnel manager

- Electrician
- Plumber
- Pipe fitter
- Carpenter
- Crew leader
- Teacher
- Millwright
- Snowplow driver
- Auditor
- Painter
- Diplomat
- Landscape architect
- And occasionally, psychologist



We all have our strong suits. While many are excellent office managers, they may be weak in mechanical skills; or vice versa. Workplace diversity isn’t just about ethnicity or gender. Efficient operation and maintenance of a small system requires a diversity of skills. So, hats off to the seldom recognized people who use these talents to varying degrees every day to keep the faucets running, the toilets flushing, and our source water and receiving streams clean and healthy. 💧



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# 40th Annual Technical Conference February 15-17, 2022

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Keller Convention Center - Effingham, IL



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### **CONFERENCE LOCATION**

The conference will be held at the Thelma Keller Convention Center located at 1202 N. Keller Dr. The convention center is attached to the host hotel.

### **REGISTRATION**

Registration & badges are required for all conference attendees. Please register each attendee using the registration form included.

### **Pre-Registration:**

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

*IRWA, PO Box 49, Taylorville, IL 62568*

To pay on-line with your credit card go to [www.ilrwa.org](http://www.ilrwa.org) and click on the conference link on the home page.

### **CONFIRMATIONS OF REGISTRATION WILL NOT BE SENT!**

Pre-registration must be postmarked by February 4th, 2022.

### **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.\*\*

An event membership of one-cent per person is included in your registration fee(s) allowing participants in NRWA fundraising activities. This is required by Federal Election Commission laws. If you wish to opt-out please go to the registration booth at the conference for your refund of this one-cent fee.

### **CANCELLATION & REFUNDS**

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

### **REGISTRATION HOURS**

#### **Pre-Registration Pickup ONLY**

Monday, February 14 4:00 p.m. - 6:00 p.m.

#### **Regular Registration Hours**

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

### **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. 115 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 15 10:00 a.m. - 4:00 p.m.  
Wednesday, February 16 8:00 a.m. - 3:00 p.m.

### **OTHER ACTIVITIES**

#### **Exhibitors Hospitality Night**

Tuesday, February 15 4:30 p.m. - 7:30 p.m.  
All food and beverages for the evening provided by our exhibitors.

#### **Pub Crawl**

Tuesday, February 15 7:30 p.m. - 12:00 a.m.  
Thank you to the City of Effingham for their continued support of the pub crawl! The buses will begin picking up at the Holiday Inn at the conclusion of Hospitality Night.

#### **Casino Night**

Wednesday, February 16 6:00 p.m. - 8:30 p.m.

### **CERTIFICATION OVERVIEWS & EXAMS**

Certification overview courses and state certification exams for drinking water and wastewater will be held at our conference this year. The reviews will be given courtesy of E.R.T.C. on Wednesday, February 16, 2022. The review is included with your conference registration.

The exams will be given on Thursday, February 17, 2022 beginning at 8:30 a.m. It will be available for attendees and non-attendees alike. You must have a valid **Letter of Admission** issued by the IEPA. You must bring the Letter of Admission and a photo ID. There are no conference fees associated with the exam. **However, you must return a registration form with the exam you will be taking circled.**

*Current COVID-19 restrictions from IEPA for the exams given at the conference state that persons taking the exams must wear a face mask regardless of any conference rules at the time of conference.*

*Exams are limited to 16 spots for each water and wastewater. This will be tracked by the 1st registrations received in the IRWA office expressing interest to take the exam.*

# Conference At A Glance

Tuesday, February 15th - Registration Open: 8:00 a.m.— 4:00 p.m.			
9:00 a.m.	Opening Session/Awards Ceremony/RD Update		
10:00 a.m.	Break/Exhibit Hall Opens		
	WATER	WASTEWATER	BREAKOUT
11:00 a.m.	IEPA Panel Discussion		
12:00 p.m.	Lunch Buffet—Ticket Required		
1:00 p.m.	PFAS Reg. Status		IMRF Update
1:45 p.m.	Service Line Options		Improving Revenue Collections for Utilities
2:30 p.m.	Break/Exhibitor Drawings		
3:00 p.m.	SCADA Technology and Trends		Cyber Liability
3:45 p.m.	Use of Hydro Excavation		Process Control
4:30 p.m.	Water Taste Test		Annual Meeting
Wednesday, February 16th - Registration Open: 8:00 a.m.— 3:00 p.m.			
8:00 a.m.	Exhibit Hall Opens		
9:00 a.m.	Fire Hydrant Maintenance and Operation	Update on Illinois Wastewater Surveillance	Water Math Review (9:00—11:00)
9:45 a.m.	PFAS Contamination and the Rural Water Cost Recovery Program	South Beloit Plant Upgrade	
10:30 a.m.	Break/Exhibitor Drawings		
11:15 a.m.	GIS and Asset Management	A Nozzle for Every Occasion	
12:00 p.m.	Lunch Buffet—Ticket Required		
1:00 p.m.	Well Maintenance	Pump Impeller Design	Disinfection Review (1:00—2:00)
1:45 p.m.	Sourcewater Protection Planning Requirement	Sludge Removal the Easy Way	
2:30 p.m.	Break/Exhibitor Drawings		
3:00 p.m.	Challenges Facing the Water Industry	Using Process Modeling Software to Meet Stringent Nutrient Limits in Lagoon Based Treatment Systems	Softening Review (3:00—4:00)
3:45 p.m.	Navigating the IEPA Website & Drinking Water Watch	Biosolids Management Utilizing Geo Textile Tubes	
Thursday, February 17th			
7:30 a.m.	Breakfast Buffet—Ticket Required		
8:30 a.m.	Lead Service Line Replacement and Notification Act	WASTEWATER CERTIFICATION EXAM (until 11:30)	WATER CERTIFICATION EXAM (until 1:30)
9:15 a.m.	Safety		
10:00 a.m.	Break		
10:15 a.m.	Energy Saving Applications		
11:00 a.m.	Funding Options		
11:45 a.m.	Closing Ceremony/Grand Prize Drawing		



# Sessions At A Glance

## WATER SESSIONS

**Rural Development Update - Mike Wallace; RD**— Find out about updates to the Rural Development programs.

**IEPA Panel Discussion - IEPA Staff**— This year, IEPA will have a panel discussion on the latest hot button rules and regs.

**PFAS Reg Status - Kevin Custer; Pace Analytical Services**— Learn about when PFOA and PFOS may get added to the SDWA MCL and what states have already set enforceable limits as well as PFAS sampling considerations and field QC and much more!

**Service Line Options - John Edwards; REHAU**— Go through the history of service line materials and compare current options available to installers.

**SCADA Technology and Trends - Dan Naughton; VT SCADA**— Generic SCADA and cybersecurity topics and trends. Basic network cybersecurity, cloud hosted options and network troubleshooting will be covered in this session.

**Use of Hydro Excavation - Brad Franklin; Key Equipment**— What is Vacuum Excavation and why is it becoming necessary?

**Fire Hydrant Maintenance and Operation - Carlos Covarrubias; M.E. Simpson**— Learn about the regular scheduled maintenance necessary on hydrants, how they operate and common repairs.

**PFAS Contamination and the Rural Water Cost Recovery Program - Sam Wade & Hank Naughton; Napoli Shkolnik Law**— This session will provide information on PFAS, sites of contamination and the rural water PFAS cost recovery program for testing, treatment and remediation.

**GIS and Asset Management - John Gilmore & Steve Randolph; Horner Shifrin**— This session will look at utilizing GIS for data driven decision-making for managing assets and staff, the lifecycle of assets, and a few case studies of successful asset management.

**Well Maintenance - Tim Kelly, Derek Nees & Dana Heck; Brotcke Well & Pump**— Discussion will be about well & pump checks operators should be performing as well maintenance checks we perform in preventative maintenance programs. We will also discuss pump repairs and well cleaning processes.

**Sourcewater Protection Planning Requirement - Kent Cox; IRWA**— Did you know that you are required to develop a Source Water Protection Plan under the new Illinois Pollution Control Board 604 Regulations?

**Challenges Facing the Water Industry - Frank Dunmire; IRWA, Jim Hopkins; Ressler & Associates; Steve Fletcher; Washington Co. Water**— Sit in on this round table discussion of the current challenges that are facing our industry today.

**Navigating the IEPA Website & Drinking Water Watch - Mary Reed; IEPA**— Mary will walk you through these sites and cut down on your time looking for what you need!

**Lead Service Line Replacement and Notification Act —Brian Cox; IDPH**— You have heard the regs on this act, now hear how this relates to the Department of Public Health side of things.

**Safety - John Leto; Electric Pump**— Subjects discussed during this presentation include but not limited to: overhead crane use, fire extinguisher use, confined space and arch flash compliance.

**Energy Saving Applications - Jeremy Rose; Richards Electric Motor Company**— Topics will include: Inverter Duty Motor Efficiency Designs, Affinity Laws and Energy Saving applications, Constant Torque vs Variable Torque, Filter and Reactor Application Considerations and Energy Saving Software.

**Funding Options - TBD; MSA Professionals**— This session will highlight a variety of funding options, and what a community can do to be prepared for a competitive funding environment. We will also discuss additional considerations when applying for funding.

## WASTEWATER SESSIONS

**Update on Illinois Wastewater Surveillance - Rachel Poretsky; IDPH/U of I/UIC**— Reporting results from the pilot of the IDPH Illinois Wastewater Surveillance System, including Phase 1 results and more information about rollout. Followed by Q & A session.

**South Beloit Plant Upgrade —Jeff Reininger; City of South Beloit**— Follow South Beloit on the journey they took to upgrade their treatment plant.

**A nozzle for every occasion - Jason Kimes; Standard Equipment**— Different types of nozzles, when they should be used, how a toilet is blown, and jetting safety.

**Pump Impeller Design - Sarah Towle; C and C Pumps**— This presentation will cover different impeller designs to cover a variety of pumping applications from clean water to hard to handle solids.

**Sludge Removal the Easy Way - Tom Hinde; Air Diffusion Systems**— Sludge and biosolids removal is an important part of operating a well-run wastewater treatment facility. Over time, accumulated solids can negatively impact treatment and be costly to mitigate. This presentation will showcase several different removal techniques for plants of all sizes.

**Using Process Modeling Software to Meet Stringent Nutrient Limits in Lagoon Based Treatment Systems - Jim Martin; Lemna Environmental Technologies, Inc.**— Wastewater treatment process design modeling software, which models biological, chemical & physical treatment processes can be used to optimize the design, performance & reliability of lagoon-based treatment systems.

**Biosolids Management Utilizing Geo Textile Tubes - Tim Reinhardt; Rhino Industries**— Utilizing geo textile tubes for dewatering sludge storage, lagoon, and tank/basin cleanouts. Is your lagoon in good shape? Steps in determining the health of your lagoon. Does your lagoon need dredged? Do you need your sludge storage tank emptied, or basins cleaned? Utilize geo textile tubes and dewater sludge on site.

## BREAKOUT SESSIONS

**IMRF Update - Mandy Beedie-Powers; IMRF**— Back by popular demand! Mandy will present on any updates from IMRF and answer your burning questions on the program.

**Improving Revenue Collections for Utilities - Gary Sanders; Edmunds GovTech**— Attendees will learn how policies and procedures at various stages of the customer cycle can impact collections. During the presentations, participants will complete 2 worksheets that illustrate points in the presentation. These worksheets highlight how much their utility could potentially have to write off when accounts skip out after being cut off for non-payment.

**Cyber Liability - Mike Miller; Team ITS & Jinene Mahon; Cincinnati Insurance**— Technical information & identifying the problems as well as technical solutions available. Additionally, some of the insurance protections & solutions that are available will be presented.

**Process Control - Roger Noe; IRWA**— Basic chlorine testing equipment to NAP testing with demo of equipment.

**Water Certification Exam Overviews—Matt Maas & Drew Hoelscher; ERTC**— Matt and Drew are back this year to give you some pointers to pass your water exam. The topics will be broken up in so specific subjects on math, disinfection and softening.



# 40th Annual Technical Conference

February 15-17, 2022

## ATTENDEE REGISTRATION FORM



**Must be completed for all attendees**

(One form for each attendee please)

FIRST NAME: \_\_\_\_\_ LAST NAME: \_\_\_\_\_

SYSTEM: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_ E-MAIL ADDRESS: \_\_\_\_\_



**Registrations must be postmarked by February 4, 2022 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—\$225.00

### 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—\$195.00

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

TUESDAY      WEDNESDAY      THURSDAY

**WATER CERTIFICATION EXAM—PLEASE CIRCLE WHICH EXAM YOU ARE ATTENDING (if applicable)**

CLASS A      CLASS B      CLASS C      CLASS D

**WASTEWATER CERTIFICATION EXAM—PLEASE CIRCLE WHICH EXAM YOU ARE ATTENDING (if applicable)**

CLASS I      CLASS II      CLASS III      CLASS IV

**\*\*All fees must be paid when registering—no purchase orders or special billings\*\***



**NO REFUNDS AFTER FEBRUARY 4, 2022**

**CONFIRMATIONS OF REGISTRATION WILL NOT BE SENT!**

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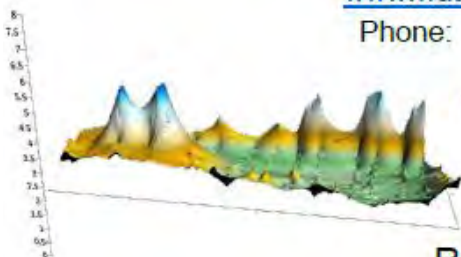


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