



# Water Ways

Volume XX — Winter 2023





# *Global expertise delivered locally*

## **Asset management**

steel & concrete tanks | treatment plants | pipes | meters

## **Water quality in distribution systems**

in-tank water mixers | trihalomethane removal systems  
disinfectant residual control systems

## **Smart metering services**

Advanced Metering Infrastructure (AMI) | smart meters  
managed services | performance guarantees

## **Contact your local water system consultant**

Phil Knight | Bill Murfree | Chad Johnson  
855-526-4413 | [www.veolianorthamerica.com](http://www.veolianorthamerica.com)

Resourcing the world



# Illinois Rural Water Association



## BOARD OF DIRECTORS

**PRESIDENT**  
GREG BATES  
*Jersey County Water Company*

**VICE PRESIDENT**  
STEVE FLETCHER  
*Washington County Water Company*

**SECRETARY**  
JAY BELL  
*City of Chenoa*

**TREASURER**  
WAYNE DIXON  
*City of Mason City*

## BOARD MEMBERS

CASEY JOHNSON  
*Anna-Jonesboro Water Commission*

JAKE JOHNSON  
*Village of Ashmore*

KALEB KAHL  
*Village of Brighton*

JACQUE PLESE  
*City of Wilmington*

## 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

MARY REED  
*Compliance Assistance Specialist*  
reed@ilrwa.org • 217-561-8376

CLARK CAMERON  
*State Circuit Rider*  
cameron@ilrwa.org • 217-820-3814

DAVE SPEAGLE  
*Energy Efficiency Circuit Rider*  
speagle@ilrwa.org • 217-820-1560

EVAN JONES  
*Circuit Rider*  
jones@ilrwa.org • 217-820-5508

ROGER NOE  
*Circuit Rider*  
noe@ilrwa.org • 217-820-1564

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

MARC LEMRISE  
*Circuit Rider*  
lemrise@ilrwa.org • 217-820-0222

*EPA Program Specialist*

DAVE McMILLAN  
mcmillan@ilrwa.org • 217-370-6485

STEVE VANCE  
vance@ilrwa.org • 217-825-5941

SCOTT TOZIER  
*Wastewater Technician*  
tozier@ilrwa.org • 585-314-3759

JEFF MCCREADY  
*Wastewater Technician*  
mccready@ilrwa.org • 217-870-4754

RICHMOND ADAMS  
*Source Water Protection Specialist*  
adams@ilrwa.org • 217-820-2037

KENT COX  
*EPA WW Program Specialist*  
cox@ilrwa.org • 309-333-4069

JEFF TUMIATI  
*Apprenticeship Coordinator*  
tumiati@ilrwa.org • 217-820-2220

## ARTICLES

Now What?.....	by Frank Dunmire	4
Differences in Operations Contracts.....	by Evan Jones	5
Putting MCL's into Perspective.....	by Mark Lemrise	6
A Pathway to the Future .....	by Jeff Tumiati	7
Hear Ye, Hear Ye!!! .....	by Chuck Woodworth	8
Where in Illinois is this Located? .....		18
41st Annual Technical Conference .....		21-25
Member Services		

Rural Water Loan Fund .....	9
ABC's of ilrwa.org.....	12
Rural Water Fleet Program.....	20
Free Energy Efficiency Assessment.....	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 photo was taken by Luke McLeod, husband of Heather McLeod, IRWA Membership Services Assistant, on Route 66 in Godley, 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

## LIST OF ADVERTISERS

Cady Aquastore.....	15
Chemstream Midwest.....	27
Coe Equipment, Inc.....	13
Dimond Bros. Insurance.....	19
Electric Pump, Inc.....	16
Heneghan & Associates, P.C.....	11
ISAWWA .....	17
IWEA .....	10
LOCIS, Inc. ....	11
McMahon Associates .....	19
Metropolitan Industries, Inc.....	11
Pittsburg Tank & Tower Maint. ....	17
Ressler & Associates .....	20
Taylor Coating Sales, Inc.....	18
The Ford Meter Box Co., Inc. ....	17
USA Bluebook .....	28
Veolia Advanced Solutions.....	2
Water Treat Technology.....	27

## Now What?

by Frank Dunmire,  
IRWA Executive Director

It was a slow evening at home, and I found myself sitting in my comfortable recliner (you know – the one where you can doze off in a matter of minutes) reading news feeds on my phone. I'm sure almost everyone reading this article has been guilty of doing the same on more than one occasion. This particular night I kept clicking on the "recommended" feeds that kept popping up and came across one from Frank Vargas who is a Corporate Social Responsibility Associate. I am not sure what that job description entails, but he did have some interesting things to say about joining a nonprofit Board of Directors versus other volunteering/donating options that may present themselves? He went on to say that one of the best ways to give back *and* have a voice in your community or, in this case, industry, is by serving on a nonprofit Board. Board service empowers you to ensure the health, equity, and stability of the water and wastewater professionals you serve. Board members who bring diverse backgrounds, perspectives, and personal experiences add tremendous value to elevating the mission and work of nonprofit organizations. Illinois Rural Water Association is blessed with a Board of Directors that brings all those qualifications to the table and are willing to attend specialized training to assist them with their responsibilities. For the more seasoned of us Water and/or Wastewater Operations Specialists, we have experienced at least one administrative change on a city council where someone new is elected and attends their first few meetings with the "I've been elected – now what" look on their face.

Many reasons exist as to why one should consider serving on a nonprofit board and a few reasons not to. Here are a few worth mentioning:

**Make an Impact** – As stated earlier, there are countless ways people can give back to their community but joining a Board of Directors of an NFP affords you the opportunity to maximize your impact and support a cause whose mission aligns with your beliefs. While serving on a Board, you use your professional skills to help guide and shape an association over time. At first, it may not seem as impactful as serving meals to the homeless or reading to children; however, your service on a Board is critical to strategizing an organization's direction to ensure those services can be delivered effectively and efficiently. In other words, the Board plots the course for the future.

**Professional Development** - Joining a nonprofit Board can build and enhance your professional skills. You may leverage your existing expertise or branch out and learn new skills. It can provide you with new experiences you may not have had in your current or past profession. Either way, becoming a nonprofit Board member will offer many opportunities for leadership development as you work with other professionals to guide the organization strategically.

**Expand Your Network** – Being a part of a nonprofit Board of Directors allows you to meet many new people,

including other Board members, community partners, and leaders. Building your connections can be a nice perk to serving your community and can open doors for future endeavors.

The National Rural Water Association supports their membership (State Rural Water Associations) by ensuring that they have the opportunity to grow as a Board member and provides them with excellent training opportunities. Recently, I accompanied three of IRWA's Directors that were attending State Board Leadership training that was presented through NRWA. The national association has a policy that at least 51% of the State Association's Board members receive this two day in-person comprehensive training. They also require ***ALL*** NRWA Board members to complete the leadership training as well. One hundred percent of the IRWA Board has received this training. It is through this training that a Board member can learn what their true responsibilities are, expand their network, grow professionally, and learn some of the reasons why a person should not serve on a board of directors. Without further ado, here are a few Board No-Nos.

1. Getting paid. If you're thinking that it pays well – you will be disappointed.
2. Going rogue. If you are thinking of joining a Board with a self-serving agenda – you may want to consider something else.
3. Being on a Board with a family member is also considered a nonstarter in the NFP world.
4. Directing staff or volunteers below the Executive Director. This has gotten many state associations in trouble and is a huge topic at leadership training.
5. Thinking everything is fine and nothing needs to change. Everything may be fine, but there is always room for change. Trust but verify.

As IRWA moves forward, it will continue to have its Directors attend leadership training and maintain that certification. If you come across one of IRWA's Directors, please thank them for their service.

Hope to see you in Effingham at the IRWA Annual Conference February 21 – 23. 💧



## Differences in Operations Contracts

by Evan Jones,  
IRWA Circuit Rider

It is likely, that most certified operators either have an existing agreement, or have been approached about doing a contractual operation at a water or wastewater system. I recently assisted a young operator transitioning into the contractual “scene”. While I have been involved in several different aspects of contract operations, I have never formally been in that position. While the above mentioned operator and I were looking into what he needed to know... so that he could figure out if it was feasible to do some contracts... we found that the prices and the agreements themselves were all over the place as far as what the set provisions stipulated.

Below, is some of the information we discovered on how several operators are doing their contracts. The first operator I talked to, charges a rate per day for each month. He does this because he feels he needs to be assured of some definitive remuneration, because of being on call for the system 24/7. For this daily fee, the utility gets a certified operator, as well as the CCR, monthly operating report, phone assistance, and weekly visits to the treatment plant. Anything above and beyond these aspects, and/or what is in the contract, he bills out at a rate of what his full-time job pays him for overtime. This is done so that the operator doesn't lose potential money if he were called into both places at the same time.

The second operations specialist we spoke to, is contracted for a flat rate that is set at a pretty good amount considering the size of the community. But he is technically the Public Works Director, and is responsible for water leaks as well as certain aspects of maintenance and treatment. He also handles the usual CCR, monthly operating reports, as well as the sampling and weekly visits. He also covers work there, when the part-time employee is not around to do the daily checks. This type of agreement works well overall; and he makes a pretty good wage most of the time... until things fall apart and there are many problems to respond to.

Operator number three, has signed on as a part time employee. By doing this, he isn't necessarily a contract operator as he doesn't have a signed contract. This lets the system take all the taxes and such out of his earnings and then just sends him a W-2 at the end of the year making accounting easier. He also can make out pretty well financially, because he is paid a rate by the hour when he is either on site or working on things for the system.

The fourth operator that we talked to, has the agreement that I likely would do, if I were operating a system on a contractual basis. He too, charges a flat rate, but this rate has things figured into it such as mileage, site visits, and length of visits. Also written into the contract is anything not in the original pact, will

be billed out at an hourly rate. This contract, (which I've seen also has a backup operator), bills out at the same hourly rate in case of an emergency or problem, when the actual contract operator is unable to respond due to vacation, sickness, etc.

The final operator I communicated with recently, charges a flat fee and that is it. He assists the system staff by phone, and when on site for required visits. He does complete the CCR, and monthly operating report, as well as calling in and handling the required steps for boil orders.

So, as you can see by examples above, these are customized to the operator as well as to what the system needs and requires for the contract. Illinois Rural Water Association has contract templates on our website at: <https://www.ilrwa.org/downloads.htm>

This link will get you to the Downloads page where you can go through that process and then customize what you need. I will not say what these operators charge, or give a suggestion of what to charge. That is going to be completely dependent on it's worth to each operator and system. It is up to each person looking to do contractual operations, to research varying amounts charged to utilities by those operators that are presently doing such work. They all differ depending on classification, and what is needed by the system. I will say, don't sell yourselves short when figuring your price. Time is money... and what is your time worth to you?

This is going to be a big topic over the next couple of years as operators retire and are not renewing their certifications. Just in the last couple of months, I have been made aware of almost a dozen systems, that are either actively looking or have been given notice, that their operator is not going to be renewing the contract. To say the least, contractual operations companies, and individual contract operators will be in huge demand. If you need any assistance with your contract, feel free to contact your IRWA Circuit Rider or Wastewater Tech for your area; or call the IRWA office and they can put you in contact with the right staff member. 💧



## Putting MCL's into Perspective

by Marc Lemrise,  
IRWA Circuit Rider

At this time of year water operators and system managers are still more than half a year away from distributing the annual Consumer Confidence Report. Any questions that your customers had about last year's CCR have been answered long ago and there won't be any new ones till the next CCR is posted.

After delivering the CCR, most system managers have had at least a few phone calls or letters asking if the water was safe to drink because the customer noticed a detection for a toxic substance, no matter how small. You can explain the EPA established MCL's after exhaustive research and then lowered the concentrations even further to provide a very wide margin of error. Somehow, that never seems to help. You might get a response like, "Sure, and income tax was a temporary measure."

The general public can sometimes be skeptical of information coming from a governmental agency. Furthermore, unless one is a public water supply operator or someone with a similar educational background, they just cannot picture what one part per million would even look like. If your system has a one-million-gallon water tower, you could tell them that about 8.3 lbs. of copper dissolved into a full water tower, or one teaspoon in 12,000 gallons (one semi tanker trailer slightly overfilled) would be the 1mg/l Maximum Contaminant Level. Any more than a teaspoon would be a violation.

Manganese has been considered by most to be more of an inconvenience than a health risk because it tends to stain plumbing fixtures and laundry. Manganese is an essential element to good health in humans and a deficiency thereof can cause blood clots and reduced immune system function. But you know the old saying, "too much of a good thing is a bad thing." This couldn't be truer in the case of manganese. Too much manganese can lead to symptoms like impaired memory, loss of appetite and certain neurological problems. Long term exposure can cause kidney failure and even hallucinations. The MCL for manganese is set at 50 ug/l. (parts per billion) One teaspoon dissolved evenly into 192,000 gallons would be the recipe for the manganese MCL.

That's one teaspoon in seventeen and a half semi tanker trucks.

Usually, it's not copper or manganese that the customer is concerned about. One U.S. teaspoon of arsenic would be about twenty lethal doses.

Most people are aware that arsenic is a highly toxic metal, so it's guaranteed to get their attention. I would tell them that one teaspoon of arsenic dissolved into 719,000 gallons of water best describes the MCL of 10 ug/l. To further make the point, that's one teaspoon in sixty-five semi-trailer tanker trucks. (At 11,000 gallons each.)

Lead contamination is even more impressive, due to the density of that constituent. Lead shares the same MCL as arsenic, being 10 ug/l. One teaspoon of lead evenly dissolved into 1.475 million gallons would be just enough to reach the MCL. Using the tanker truck comparison, that's one teaspoon of lead in 134 tanker trucks!

As we all know, some people will never be satisfied with whatever answer you give them. Conspiracy theories still abound regarding the addition of fluoride in our drinking water. People generally believe what they want to, but reasonable people may take solace in an explanation that gives perspective to how infinitesimally small these concentrations are and maybe even give them some confidence in the agencies and operators that keep our potable water safe for any domestic use. 💧



Sources: Aqua-calc.com  
USEPA  
Quora.com  
Transcourt.com  
Healthandenvironment.org  
Atsdr.cdc.gov



## *A Pathway to the Future*

*by Jeff Tumiat, IRWA Apprenticeship Coordinator*

Those in the water and wastewater industry know the importance of safe drinking water and the proper treatment of wastewater. Water and Wastewater Operations Specialists are very much aware of how unique their jobs are, in that they involve the daily responsibilities of public health protection, technical operations, and maintenance of critical but unseen infrastructure. Water and Wastewater professionals have, and continue, to work tirelessly to protect our water and waterways, thereby ensuring the health and safety of both our customers and our water – ensuring access for all. They are ultimately responsible for meeting stringent regulatory standards, replacing aging infrastructure, and responding to and recovering from disasters. Having said all that you also know that it can be one of the most challenging and satisfying career paths where you know what you do every single day makes a difference not only for your community, but in the quality of life for your family, friends, and neighbors. You should be very proud of what you do while working in the water and wastewater field and know that you are making a difference as you strive to provide safe potable water and/or properly treat wastewater before returning it back to mother nature.

I'm very happy to be able to continually provide you with positive updates about the Illinois Rural Water Association's Apprenticeship training program as it continues to grow at a brisk pace. IRWA currently has eleven active apprentices and will be starting another group of Water Operation Specialists in early 2023. To date thirty-eight applicants have completed the online application. The pool of employers looking to hire and train the next generation of operators is growing along with the expanding pool of eligible applicants waiting for their chance to enter the Water/Wastewater industry and ultimately someday becoming Operations Specialists. Our first group of Water Operation specialists that started their journey in September of 2021 are now well over halfway through their journey. A few of them have challenged and successfully passed their IEPA certification exams. Congratulations great job!

Another accomplishment that we are very proud of is receiving the Business Partnership Award from Land of Lincoln Workforce Alliance. At their most recent Innovation Board Awards banquet held in Springfield, Illinois Rural Water Association was recognized and presented the Business Partnership Award. The Land of Lincoln Workforce Alliance began a partnership with the Illinois Rural Water Association after a referral from Illinois Department of Human Services – Rehabilitation Services. This project has provided reimbursement funds for five systems in Central Illinois for the training of their Water Operations Specialists currently participating in the IRWA apprenticeship program. The systems that the apprentices work for are currently being reimbursed for 90% of their training and educational costs. This will not only impact those communities in Central Illinois but also statewide for many years to come. This

project is the perfect example of what local workforce offices do throughout the State. There is currently such a workforce shortage, and this program has the potential to impact each of these local communities greatly by providing an avenue for them to have a Water/Wastewater Specialist that can handle the operations of their facilities as well as its supporting infrastructure in two and half years.

Interested individuals looking to enter the water and wastewater field can go to our website, [www.ilrwa.org](http://www.ilrwa.org), to complete their application. Once all criteria have been met, they will be placed onto the eligible apprentice pool list. Systems looking to fill the shoes of those retiring employees or simply fill an unexpected opening must also meet the criteria contained in the apprenticeship program standards to be eligible to train apprentices. Once everything is completed, we will register the employer and the apprentice with the U.S. Department of Labor. The next step would be pairing the apprentices with the employers. To learn more about the apprenticeship program, please visit our website at [www.ilrwa.org](http://www.ilrwa.org).

Until we meet again stay healthy, work safe and best wishes. 💧



*Pictured left to right: Sarah Graham Executive Director Land of Lincoln Workforce Alliance, Jeff Tumiat Apprenticeship Coordinator, Heather McLeod Membership Services Coordinator*

## HEAR YE, HEAR YE!!!

by Chuck Woodworth,  
IRWA Circuit Rider

It's that time of the year again...Are you ready for some training? You don't want to miss the "big show", the "main event", the conference of all conferences and the exhibit hall, over 100 booths filled with the latest and greatest tools, parts and technology. You will also find in the



exhibit hall some tasty snacks, hot and cold drinks. The most important thing you will find in the exhibit hall is the people, some of the water industry's smartest people who enjoy talking about what they do. Any of them would be happy to discuss similar issues they have had that might be close to an issue you might be having back home in your system. All you need to do is walk up to someone, introduce yourself then ask, have you ever had a situation like this before in your system? Next thing you know there will be a small group of water operators standing there having a discussion solving the issues. I have been told several times that some of the best training comes from operators talking in the halls or while enjoying one of the great meals that are provided.



The sportsman raffle is another big draw if you are interested in buying tickets for a chance at winning new fishing poles, deer stands, golf clubs, trail cams, cash, outdoor grills and wide selection of other outdoor sports related items. The winner of each of these items are announced after the casino night. We also have a few items that are donated for an auction the same night.

Our annual conference is a 2 1/2 day event with training sessions with around 13 credit hours available. 115 exhibitors set up for 2 days and will be happy to tell you about their latest products and services. The next conference will be held at the Keller Convention Center in Effingham, IL on February 21-23, 2023.

If you're looking for some training on a little smaller scale maybe the northern conference would be more suited to your likings. This is a conference held in the Northern part of the state normally near the Rockford area. During the 2 day conference you can attend training sessions and receive around 10 credit hours, and visit with 40 exhibitors. As always, great meals are provided. The next Northern Conference will be held in October 2023. 💧





# RURAL WATER Loan Fund

## About The Program

The NRWA Rural Water Loan Fund (RWLF) is a funding program specifically designed to meet the unique needs of small water and wastewater utilities.

The RWLF provides low-cost loans for short-term repair costs, small capital projects, or pre-development costs associated with larger projects. The RWLF was established through a grant from the USDA/RUS, and repaid funds used to replenish the fund and make new loans.

Apply today by contacting your State Rural Water Association or NRWA!



## Reasons to Apply

- Reasonable interest rates
- No administrative or processing fees
- Straightforward application process and quick turnaround
- Systems must be public entities serving up to 10,000 persons, or in rural areas with no population limits
- Loan amounts may not exceed \$200,000 or 75% of the total project cost, whichever is less
- Emergency loans are 90-day no interest, with immediate turn around on applications

## Eligible Projects

- Pre-development (planning) costs for infrastructure projects
- Replacement equipment, system upgrades, maintenance and small capital projects
- Energy efficiency projects to lower costs and improve sustainability
- Disaster recovery or other emergency loans available

Applications, information and forms can be downloaded from the NRWA website at [nrwa.org](http://nrwa.org) or by scanning the QR Code above. For help, please call 1.800.332.8715 or email [nrwarwlf@nrwa.org](mailto:nrwarwlf@nrwa.org).



National Rural Water Association is an equal opportunity provider and employer. This material is based upon work supported by the Rural Utilities Service, United States Department of Agriculture.



## 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 letterhead and mail to:

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

# IWPC 2023

— TOGETHER FOR CLEAN WATER —

**Illinois Wastewater Professionals Conference**  
Crowne Plaza, Springfield, IL | April 10-12, 2023

Register Now at  
[IllinoisWPC.org](https://IllinoisWPC.org)



**ILLINOIS**  
Water Environment Association



**Heneghan Construction  
Services, LLC**

P: 888-291-7615 | E: info@hcsdesignbuild.com  
W: hcsdesignbuild.com

*HCS will work with you as a team member to design and construct your projects more efficiently (less time and better use of project funds) and with a higher quality of construction and fewer headaches along the way. Trust HCS to handle all of your project needs with the quality you deserve.*

#### EXPERIENCED IN

- Waterlines
- Booster Pump Stations
- Sewer Lines
- Force Mains
- Miscellaneous Water System Needs



## MAXIMIZE EFFICIENCY AND REVENUE WITH LOCiS CLOUD-BASED UTILITY BILLING



At LOCiS, we're here to make your utility billing simpler by providing a comprehensive, cloud-based utility billing management tool that performs a variety of functions for multiple user-defined services including Utility Billing production of bills and record of payments for water, sewer, gas, electric, refuse and more. LOCiS software is developed, managed and supported in the U.S.

#### LOCiS PERFORMS FOR YOU



**Learn how LOCiS Cloud-Based Utility Billing  
can help your organization.**

Visit [www.locis.com](http://www.locis.com) or call 866.LOCiS99



## CUSTOM ENGINEERED SOLUTIONS FOR YOUR PROJECT

**Housed systems prefabricated  
to your specifications**

**Custom fabrication and  
manufacturing capabilities**

**Tailored controls and monitoring  
products (pictured: MetroCloud  
remote hosted SCADA)**



815-886-9200  
[metropolitanind.com](http://metropolitanind.com)





# What are you looking for?

## The ABC's of ilrwa.org

- **Advertising in Water Ways information** (Ad agreement and links) - Publications > Advertising Information
- **Becoming a Certified Water or Wastewater Operator**—Resources > Becoming a Certified Operator in Illinois
- **Boil Order Notice**—Resources > Downloads
- **Certification Overview from IRWA**—Training > Certification
- **Certified Water Operator Contract**—Resources > Downloads
- **CEU Forms from past conferences**—Training > CEU Archives
- **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
- **Energy Efficiency Assessment**—Services > Energy Efficiency
- **For Sale/Wanted**—Services > For Sale/Wanted
- **Forming a new water district**—Resources > Downloads
- **GPS/GIS**—Services > GPS/GIS Mapping
- **Industry Organizations**—Resources > Links
- **Lead Information**—Resources > Lead Information
- **Leak checklist and how much am I losing flyers**—Resources > Downloads
- **Legislative Information** – (Who is my rep?, Bills that IRWA is following)—Resources > Legislative
- **Mutual Aid**—Resources > Downloads
- **NFP Tax Forms** — Resources > Downloads
- **NRWA Fleet** - Membership > Benefits—click on the NRWA logo
- **Operator Groups**—Resources > Links
- **PFAS**—Home
- **Rate Study**— Services > Rate Study
- **Red Flag Act**—Resources > Downloads
- **Speaker Request Form for Conference**—Training > Conferences
- **Tracer Wire Specs**—Resources > Downloads
- **ERP/Contingency Plans**—Resources > Emergency Preparedness Planning
- **Video Inspection Services**—Services > Video Inspection
- **Wastewater CEU information**—Training > Wastewater > under table
- **Water Loss Handouts**—Resources > Downloads
- **Water University**—Training > Water U





# Coe

## EQUIPMENT INC

### Who Are We?

Coe Equipment has been in business for over 30 years, serving customers in Illinois and Missouri. We continue to supply parts and service for ALL makes of sewer and vacuum excavation equipment.

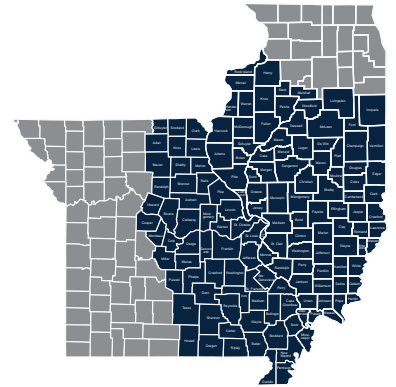
We are family owned and operated in Central Illinois. Our sales and service team has combined experience of over 100 years.

Our customers are our number one priority. We look forward to earning and continuing to be worthy of your business.

DOWNSTATE ILLINOIS  
& EASTERN MISSOURI'S

*Only Authorized*  
**VACTOR**  
Subsidiary of Federal Signal Corporation

SALES AND SERVICE CENTER



📍 5953 Cherry Street • Rochester, Illinois 62563  
☎ 217-498-7200  
✉ parts@coe-equipment.com  
✉ sales@coe-equipment.com  
🌐 www.coe-equipment.com



We proudly distribute these quality manufacturers:

**VACTOR**  
Subsidiary of Federal Signal Corporation

**Sonetics**

**TRUVAC**  
by Vactor Mfg. Inc.

**ARIES**  
INDUSTRIES, INC.

**FEDERAL SIGNAL**  
*Moves. Cleans. Protects.*

**STONEAGE**  
ENGINEERING THE POWER OF WATER

**GUZZLER**  
Manufacturing of Municipal Hygiene Equipment

**RINNOVISION**

**HYDRA-FLEX**  
FLUID INNOVATION

**WORK HORSE**  
Nozzles & Tools

**VANGUARD**  
SYSTEMS

**VIVAX**  
**METROTECH**

**NozzTec**

ANY and ALL parts and accessories for your industrial or municipal sewer equipment, including...

- Debris & Jetting Hoses
- Pipe & Pipe Clamps
- Hose Guides
- Hose Fittings & Menders
- Nozzles
- Filters & Gaskets
- Reel Repair Parts
- Gauges
- Tools



Plus, the best digging accessories available!

*Ask about our equipment rentals!*

# USDA WATER & WASTE WATER DISPOSAL LOAN AND GRANT PROGRAM

Improve Your Facility

## About the Program

This program provides funding for clean and reliable drinking water systems, sanitary sewage disposal, sanitary solid waste disposal, and storm water drainage to households and businesses in eligible rural areas.

## Funding

Long-term, low-interest loan funding is available. If funds are available, a grant may be combined with a loan if necessary to keep user costs reasonable.

## USE YOUR FUNDS TO FINANCE THE ACQUISITION, CONSTRUCTION, OR IMPROVEMENT OF:

- 01 Drinking water sourcing, treatment, storage, and distribution
- 02 Sewer collection, transmission, treatment, and disposal
- 03 Solid waste collection, disposal, and closure
- 04 Storm water collection, transmission, and disposal
- 05 Other related activities such as permits and legal fees



Scan the QR code to view more information and start your application.



# AQUASTORE®

## WHAT'S INSIDE MATTERS

**DON'T SETTLE FOR LESS  
THAN THE BEST**

### SPECIFY VITRIUM™ PREMIUM TiO<sub>2</sub> TECHNOLOGY

The interior of ALL Aquastore® tanks feature proprietary Vitrium™ coating technology enhanced with titanium dioxide for the toughest glass available.

## GET THE QUALITY YOU DESERVE

- Tough TiO<sub>2</sub> glass formulation provides longer life
- White interior is easier to inspect than darker coatings
- Electrostatically applied base coat application ensures consistent quality
- Factory certified "holiday-free" sheets
- Designed for use in both cold and hot climates
- Designed, fabricated, shipped and supported within the USA



## CADY AQUASTORE® INC.

Call today (815) 438-5678  
or visit [cadyaquastore.com](http://cadyaquastore.com)

©2021 Cady Aquastore Inc. Aquastore is a registered trademark and Vitrium is a trademark of CST Industries Inc.



Represented in Northern Illinois  
Peterson & Matz Inc, Elgin IL  
Ph: 847-844-4405

Represented in Southern Illinois  
Municipal Equipment Co Inc, Earth City MO  
Ph: 314-290-2999



*You can count on us for all  
your fluid handling solutions!*



515-265-2222 / 800-383-PUMP [www.electricpump.com](http://www.electricpump.com)

## 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)

# SIMPLY SEALS!



**Fully encapsulated  
for the most  
challenging  
applications.**

- Tapping Sleeves
- Couplings
- Bell Joint Encapsulators

260-563-3171  
fordmeterbox.com

# STRUCTURE. & INTEGRITY.

## PITTSBURGH TANK & TOWER GROUP

An ESOP Company Since 1919

*"100 years and still climbing"*

**CREWS  
AVAILABLE  
GLOBALLY**



[WWW.PTTG.COM](http://WWW.PTTG.COM)



### INSPECTIONS REPAIR TANKS



Wet  
Dry  
ROV  
In-Service  
Cleaning

Code  
Updates  
Paint  
Insulation

Elevated  
Ground  
Relocation  
Erection  
Dismantles

**NEW TANKS** – Rick DiZinno  
(270) 826-9000 ext. 2601

**EXISTING TANKS** – Jordan Pyles  
(270) 826-9000 ext. 4601

## The *BEST* Educational Resources Make the *BEST* Operators!

ISAWWA offers Water and Wastewater Operators and Operators-in-Training a variety of in-person, virtual and on-demand training opportunities.

**WIN a WATERCON Operator Day Scholarship!**



Scan QR code for more information.  
Application deadline is March 1, 2023.

Visit our website for upcoming trainings,  
[www.isawwa.org/calendar](http://www.isawwa.org/calendar)

**Join Us!**  
**WATERCON**  
Operator Day  
**Wednesday**  
March 23!

 American Water Works Association  
**Illinois** Section



**WHERE IN ILLINOIS IS THIS LOCATED?**

**Be the first person to identify the location of this picture and you will receive an IRWA hat!**

**Visit IRWA's Facebook page and if you are the first person to post the correct answer on our wall, we will send you an IRWA hat. You can find the link to our Facebook page on our website at [www.ilrwa.org](http://www.ilrwa.org).**

**(Winners are limited to winning one time per year)**

# Think Tnemec.

Tnemec Company has been the leading supplier of protective coatings to the water industry for decades. Our extensive line of proven products offers unparalleled corrosion protection and aesthetics, extending your maintenance cycles and providing unmatched life-cycle value. Contact us for a complimentary protective coatings packet or coating system consultation. When you think of coatings, think Tnemec.

**Contact your local Tnemec coatings consultant:**

Northern Illinois

**Erik Otten**

Taylor Coating Sales, Inc.  
Tel: (708) 822-8323  
[eotten@tnemec.com](mailto:eotten@tnemec.com)

Western Illinois

**Keith Kennett**

Taylor Coating Sales, Inc.  
Tel: (309) 945-2094  
[kkennett@tnemec.com](mailto:kkennett@tnemec.com)

Southern Illinois

**Mike Cerutti**

Coating Solutions, LLC  
Tel: (314) 703-8042  
[mcerutti@tnemec.com](mailto:mcerutti@tnemec.com)





## ABOUT DIMOND BROS.

- Dimond Bros. Insurance is an independent insurance agency headquartered in Paris, IL
- 40 Office Locations throughout Illinois, Indiana and Wisconsin with 300+ employees
- One of the Largest Privately Held Insurance Agencies in the United States

## OUR CARRIERS

- Carriers will be selected based on the individual risk. Carriers we may utilize include: Cincinnati, Travelers, Selective, Bliss McKnight, OneBeacon, IPRF or ICRMT

## OUR COMMITMENT

- Response to members in a timely and professional manner
- Individualize communication style preferences including email, mail, phone, fax
- Attend and Contribute to IRWA Conferences



**Dimond Bros.**

Insurance Since 1867

**DimondBros.com**

**John B. Griffith**

801 N. Third St., Suite B  
Effingham, IL 6240 (217)  
347-0584 ext. 3105

john.griffith@dimondbros.com

**Sean Griffith**

801 N. Third St., Suite B  
Effingham, IL 62401  
(217) 347-0584 ext. 3104

sean.griffith@dimondbros.com

# YOUR PARTNER IN PROTECTING OUR MOST PRECIOUS RESOURCE



**McMAHON**  
ENGINEERS ARCHITECTS

### Engineering Solutions

- Water & Wastewater Engineering
- Renewable Fuels / Waste-to-Energy
  - Water Resources
- Public Safety & Municipal Management
  - Construction Services
  - Funding Strategies



**INTEGRATED PUBLIC RESOURCES, LLC**  
**INTEGRATED PUBLIC RESOURCES OPERATIONS, LLC**

McMAHON AFFILIATE COMPANIES

### Operations Solutions

- Operations Solutions for Water and Wastewater Facilities
  - Regulatory Compliance
  - Process Troubleshooting
- Unique P3 Project Delivery Models

**NOW HIRING**  
**Engineers / Designers**  
**WATER & WASTEWATER**

NEENAH WI  
MACHESNEY PARK IL  
VALPARAISO IN  
920 751 4200  
**MCMGRP.COM**

**SERVICE INSPIRED SINCE 1909**



# Rural Water Fleet Program

The National Rural Water Association has created partnerships with motor groups to offer discounts to utilities around the country. Member utilities should contact their State Rural Water Association to access the Rural Water Fleet Program.



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



P.O. Box 4018  
Ballwin, MO 63022  
Phone: 636.391.8992  
[resslerassociates.com](http://resslerassociates.com)

Treatment Equipment, Spare Parts,  
Replacements & Service



Clean Water...  
Into the Future!

**ATTENDEE INFORMATION**

# ***THE DRIVING FORCE***



**41ST ANNUAL TECHNICAL CONFERENCE**  
**FEBRUARY 21-23, 2023**  
**KELLER CONVENTION CENTER - EFFINGHAM, IL**

### HOST HOTEL

Holiday Inn  
1301 Ave. of Mid-America  
Effingham, IL  
Phone: 217-540-7777  
\$115.00 + tax per night



### Auxiliary Hotel

LaQuinta  
1103 Ave of Mid America  
Phone: 217-540-1111

### Auxiliary Hotel

Country Inn & Suites  
1200 N. Raney St.  
Phone: 217-540-5555

### Auxiliary Hotel

Holiday Inn Express  
1604 Fayette Ave  
(exit 159)  
217-994-9949

### Auxiliary Hotel

Best Western-Delta Inn  
1509 Hampton Drive  
217-342-4499

### Auxiliary Hotel

Hampton Inn & Suites  
1305 N Keller Dr  
217-540-5050

### 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 3, 2023.

#### **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 20 4:00 p.m. - 6:00 p.m.

#### **Regular Registration Hours**

Tuesday, February 21 8:00 a.m. - 4:00 p.m.

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

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

### OTHER ACTIVITIES

#### **Exhibitors Hospitality Night**

Tuesday, February 21 4:30 p.m. - 7:30 p.m.

All food and beverages for the evening provided by our exhibitors.

#### **Pub Crawl**

Tuesday, February 21 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 22 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 the conference. The reviews will be given courtesy of E.R.T.C. on Wednesday, February 22, 2023. The review is included with your conference registration.

The exams will be given on Thursday, February 23, 2023 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.**



# 41st Annual Technical Conference

February 21-23, 2023

## ATTENDEE REGISTRATION FORM

Please complete one form for each attendee

Make check payable to: Illinois Rural Water Association

P.O. Box 49, Taylorville, IL 62568

You may also pay on-line at [www.ilrwa.org](http://www.ilrwa.org) with a credit card

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

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

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

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

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



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

☐ Member—\$190.00

☐ Spouse—\$190.00

☐ Non-Member—\$240.00

☐ 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—\$165.00

☐ Spouse—\$165.00

☐ Non-Member—\$215.00

☐ Non-Member Individual Joining as a Member + Conference—\$190.00

### 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 TAKING (if applicable)

CLASS A

CLASS B

CLASS C

CLASS D

### WASTEWATER CERTIFICATION EXAM—PLEASE CIRCLE WHICH EXAM YOU ARE TAKING (if applicable)

CLASS I

CLASS II

CLASS III

CLASS IV

**Registrations must be postmarked by February 3, 2023 to receive pre-registration pricing**

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

**NO REFUNDS AFTER FEBRUARY 3, 2023**

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



**Have a Question?  
Call 1-800-762-3547**

# CONFERENCE AT A GLANCE

**Tuesday, February 21st - Registration Open: 8:00 a.m.— 4:00 p.m.**  
**4.5 Water/3.5 Wastewater credits available ( \* = dual credit)**

9:00 a.m.	Opening Session/Awards Ceremony/RD Update*		
10:00 a.m.	<b>Break/Exhibit Hall Opens</b>		
	<b>WATER</b>	<b>WASTEWATER</b>	<b>BREAKOUT</b>
11:00 a.m.	IEPA Panel Discussion		
12:00 p.m.	<b>Lunch Buffet—Ticket Required</b>		
1:00 p.m.	Water Tower/Tank Maintenance & Service Agreements	Biosolids 2023 & Beyond	Transferring Your Infrastructure Risks*
1:45 p.m.	Streamlining Lead Service Line Inspections	Lagoon Management & Maintenance	Non-Revenue Water with Cost Effective Leak & Pressure Data
2:30 p.m.	<b>Break/Exhibitor Drawings</b>		
3:00 p.m.	Line Stopping	Aerobic Digestion: Old Challenge, New Innovative Solution!	Improving Water System Control Through Effective Valve Management
3:45 p.m.	Need More Water? Raise the Water Tower	Lagoons in Illinois—Plenty of Life Left!	How to Increase Revenue without Raising Rates*
4:30 p.m.	Water Taste Test		Annual Meeting

**Wednesday, February 22nd - Registration & Exhibit Hall Open: 8:00 a.m.— 3:00 p.m.**  
**5.25 Water/5.25 Wastewater credits available ( \* = dual credit)**

9:00 a.m.	Metering & Technology: The Next Generation of Metric Reading	Pump Station Selection & Design Reasoning	Water Math Review (9:00—11:00)
9:45 a.m.	Water Storage Tank Winter Operations	Theory of Dissolved Oxygen	
10:30 a.m.	Break/Exhibitor Drawings		
11:15 a.m.	GIS & Asset Management*	Water Quality Trading: Achieve Permit Goals & Protecting the Watershed	
12:00 p.m.	Lunch Buffet—Ticket Required		
1:00 p.m.	Solar, Energy Storage & Demand Shaving*	Overview of Testing Procedures	Disinfection and Softening Review*
1:45 p.m.	The Do's and Don'ts of Sampling	Optimize Pump Station Management with Web-Based Remote Monitoring & Control	
2:30 p.m.	Break/Exhibitor Drawings		
3:00 p.m.	Well Treatment Options	Packed Bed Filter Treatment and the Contribution on Advantex	Basic Wastewater Math (2:45—4:00)
3:45 p.m.	PFAS: Latest Developments, Monitoring, and Treatment Strategies	Composite Manholes Frames and Lids for Sanitary Sewer/Water Meter Applications	

**Thursday, February 23rd (No registration or exhibit hall open)**  
**3 Water/2.25 Wastewater credits available ( \* = dual credit)**

7:30 a.m.	<b>Breakfast Buffet—Ticket Required</b>		
8:30 a.m.	Compliance Assistance*	<b>WASTEWATER CERTIFICATION EXAM (until 11:30)</b>	<b>WATER CERTIFICATION EXAM (until 1:30)</b>
9:15 a.m.	Crisis Communications: Responding to the media and the public in emergency situations*		
10:00 a.m.	<b>Break</b>		
10:15 a.m.	Control Valves		
11:00 a.m.	The Importance of Apprenticeships*		
11:45 a.m.	<b>Grand Prize Drawing</b>		



## WATER SESSIONS

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

**IEPA Update - TBD IEPA** - This popular session will fill you in on all of the new regs and any changes to older ones.

**Water Tower/Tank Maintenance and Service Agreements—James Creed; KLM Engineering** - Learn about the ins and outs of a service agreement and maintenance for today's water storage tanks.

**Streamlining Lead Service Line Inspections—Kip Kritis & Justin Krones; Horner & Shifrin, Inc.** - Utilize GIS to track, coordinate, report & budget for which service lines are required to be replaced & provide the EPA with the mandated data in an efficiently & effectively.

**Linestopping—Michael Bailey, Eric Haworth & Jason Williams; IMCO** - Find out what linestopping is and how to use it to your benefit. A Q & A session will follow this session.

**Need More Water? Raise the Water Tower—Mike Buzicky; MSA Professional Services** - Hear how an undeveloped area in Lake Geneva raised the pressure when more static water pressure was needed to comply with code.

**Metering Technology: The Next Generation of Meter Reading—Brian Lawson; Smart Earth Technologies** - Learn how meters have advanced and how reading systems have changed. You will also learn about cellular reading.

**Water Storage Tank Winter Operations —Rich Kemmis ; Maguire Iron** - Hear about the indications of a frozen water tank, problems and potential damages that can result from a frozen tank, thawing the tanks open, as well as preventative measures to ensure your tank does not freeze in the wintertime.

**GIS and Asset Management - Don Craig; IRWA**—See how this IRWA program helps rural community systems address part of needed asset management of their water, wastewater & storm sewer infrastructures.

**Solar, Energy Storage & Demand Shaving —Bryce Vincent; Amerilight** - Financial benefits for water utility systems, benefits of renewable energy, critical components & infrastructure needed for a solar array & a case study demonstrating energy & financial savings.

**The Do's and Don'ts of Sampling—Jennifer Solomon; Pace Labs** - Are you taking your samples properly? Come to this session and hear about things you may or may not be doing correctly.

**Well Treatment Options—Tim Kelly; Brotcke Well & Pump** - Various well treatment options will be discussed along with the pros and cons of these treatments.

**PFAS: Latest Developments, Monitoring and Treatment Strategies - Jake Causey; Corona Environmental Consulting, LLC** - The latest actions regarding PFAS impacting drinking water utilities, latest analytical methods for monitoring PFAS levels, and treatment strategies for removing PFAS from drinking water.

**Compliance Assistance—Mary Reed; IRWA** - Find out how this new IRWA program can save you headaches as you try to stay in compliance with the state regulations.

**Crisis Communications: Responding to the Media & the Public in Emergency Situations—Kim Biggs; IEPA** - Have you ever struggled to know what to say and how much information to give out during an emergency? Learn what to say & maybe more importantly what not to!

**Control Valves—Sarah Towle; C and C Pumps**—The presentation covers different types of control valves as well as maintenance and a free app to track maintenance.

**The Importance of Apprenticeships—Kim Kuchenbrod, DCEO** - It is growing more important to replace the retiring water & wastewater specialists in the workforce. Find out how partnering in an apprenticeship program can work for your system.

## WASTEWATER SESSIONS

**Biosolids 2023 and Beyond—Greg Firrantello; Stewart Spreading** - An overall and wide look at the biosolids industry from generator to end user, to public relations & environmental regulations.

## **SESSIONS AT A GLANCE**

**Lagoon Management & Maintenance—Ben Shakman; Triplepoint Environmental** - Ben will discuss the impact of routine and cyclical maintenance as well as retro-commissioning/recommissioning as a framework to help get systems back to operating as designed.

**Aerobic Digestion: Old Challenge, New Innovative Solution! - Freddy Kade; EnviroMix**—Benefits of this energy-efficient solution and a case study of Benton, IL WWTP and their use of decoupled aeration and mixing to realize over \$40,000 in annual savings.

**Lagoons in Illinois-Plenty of Life Left! - Nick Janous; Nexom, Inc.**— There are many ways to upgrade and reuse lagoons to meet the nutrient limits many DNR's are forcing on plants today.

**Pump Station Selection and Design—Michael Heitert; Enviro-Line Co., Inc.** - This presentation will cover the reasoning behind a decision on pump stations selection and designs.

**Theory of Dissolved Oxygen - Eric Link; LabtronX**— We will explore how temperature and pressure affect contraction, expansion, saturation and diffusion.

**Water Quality Trading: Achieving Permit Goals and Protecting the Watershed— Andrew Skog; MSA Professional Services** - A case study on how the City of Broadhead, WI implemented a water quality trading program to meet permit goals, achieve cost savings & improve a local watershed.

**Overview of Testing Procedures for Small Wastewater Systems—Scott Tozier; IRWA** - Scott will cover tests such as: temp, PH, TSS, BOD/CBOD, ammonia and fecal coliform. This course is meant for small systems that may not do these tests, but are required to know this information for certification testing.

**Optimize Pump Station Management with Web-Based Remote Monitoring & Control—Glenn Panner; Grundfos** - The presentation will cover the latest web-based technology for monitoring remote lift station operations in the palm of your hand enabling time & cost savings.

**Packed Bed Filter Treatment and the Contribution on Advantex—Jerry VanAuker; Orenco** - The timeline & benefits of packed bed filter treatment, various media used, how treatment takes place and the benefits will be discussed in this session.

**Composite Manholes Frames and Lids for Sanitary Sewer/Water Meter Applications—Eric Luschen; MMG** - Composite manhole frames and lids greatly help to reduce SOs, reduce workers injuries and last much longer due to corrosion resistance.

## BREAKOUT SESSIONS

**Transferring Your Infrastructure Risks—Robert E. O'Connell; My Utility Claim, Inc.** - Insurance strategies for transferring utility infrastructure risks to preserve reserves and improve infrastructure.

**Reduce Non-Revenue Water with Cost Effective Leak & Pressure Data—Steve Bruskiwicz; Clow Valve Company** - Manage your distribution system more efficiently and respond more effectively to hydraulic events in your distribution system using remote leak detection and pressure monitoring.

**Improving Water System Control through Effective Valve Management—Deryck Freudeman; Xylem; Wachs Water Services** - Attendees will learn why it is critical to prioritize valve condition assessments to gain a better understanding of the control they have on water distribution systems.

**How to Increase Revenues without Raising Rates—Gary Sanders; Utility Information Pipeline, LLC** - User fees are an often overlooked source of income to supplement rate revenues. Hear about some fees to consider when updating your schedule of fees.

**Water and Wastewater Certification Math Overviews—Matt Maas ERTC** - Water math review will be back again this year. By popular request, Matt will also be going over wastewater math as well!

**Disinfection and Softening Certification Overview—Drew Hoelscher; ERTC** - Come to this session to hear an overview on disinfection and softening to assist you in passing your certification exam.

# FREE ENERGY EFFICIENCY ASSESSMENT

Will evaluate your energy needs, consumption and costs and recommend measures to reduce energy consumption and identify sources of funding for improvements.

What is Ameren's current electricity price?

As of Oct. 1, Ameren's "price to compare"—the supply rate you compare with alternative supplier offers—is: 0-800 kilowatt-hours (kWh): 12.236¢ per kWh—Above 800 kWh: 9.777¢ per kWh. For the first 800 kilowatt-hours, this represents a 126 percent increase over the price last October!

Ameren has also asked the ICC for approval of an additional 83 million dollar increase for next year!

## Consider ...

The high cost of operating utilities has gotten to the point where the utility has to look at all options available. Keeping the operational costs to a minimum ensures that your rates are the lowest possible and still ensure safe drinking water and wastewater utilities.

## What do we assess?

The Energy Conservation Circuit Rider will assess your electric bills, system assets and operational procedures. They will break it down into a usable format with options to explore which will lower costs and a projection of the time to payback.

## Why ...

Most Operators spend their time in operational issues to ensure safe drinking water and maintaining compliance. They often do not have the time to dedicate to energy savings or expertise in doing assessments. We can take the time and figure it out for you.

## Key Offerings

Find where your system can save money on energy. Not only can your system be more efficient, it can outline which changes can generate repayment the quickest.

### What is requested of the system?

You Provide a Tour of the Facilities for Circuit Rider  
You Provide Copies of Energy Bills for one year

### What Do You Receive?

Recommendations on how to conserve and save on your energy bills with items listed on the projected cost of improvements and how quickly those investments recoup the return.



How Do I Get A Free Energy Assessment?

Contact Dave Speagle

217-820-1560 – cell phone

217-287-2115 – IRWA office

speagle@ilrwa.org

# Innovation | Chemistry | Excellence

Chemstream offers all the right elements to ensure you receive the best water treatment solutions, all at a lower cost.

- ✓ No-cost detailed analysis with our on-site and in-house laboratory
- ✓ Full line of specialized chemicals
- ✓ Patented water treatment equipment
- ✓ Customized delivery services
- ✓ State-of-the-art monitoring systems to ensure compliance
- ✓ Superior customer service

**CHEMSTREAM**



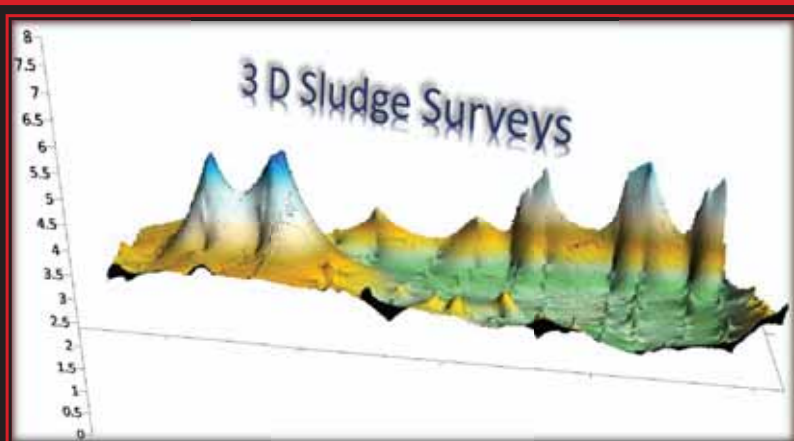
WATER TREATMENT AND DUST  
SUPPRESSION SOLUTIONS

Learn more at [www.chemstream.com](http://www.chemstream.com),  
or call us directly at 618-932-9304.

## WATER TREAT TECHNOLOGY

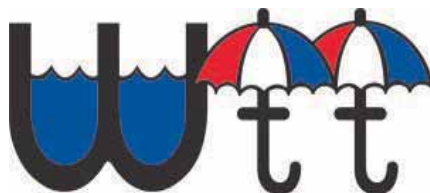
Wastewater Treatment for Manufacturers and Municipalities

Family-owned business – Products made in the USA



Contact us at:

[www.water-treat-tech.com](http://www.water-treat-tech.com)  
Phone: (618) 923-0520



### Activated Sludge:

- ✓ Anaerobic Digesters
- ✓ Filamentous Control
- ✓ Ammonia Control
- ✓ Sludge Reducing Treatment

### Lagoons:

- ✓ Algae Control
- ✓ Duckweed and Water Meal Control

### Services:

- ✓ Wastewater Consulting
- ✓ Contract Operating Services
- ✓ Lab Services
- ✓ Troubleshooting



3305 Kennedy Rd.  
P.O. Box 49  
Taylorville, Illinois 62568

PRESORTED  
STANDARD  
U.S. POSTAGE  
PAID  
Springfield, IL  
Permit No. 500

# CLOGGED PUMPS?

*Tackle wipes and large debris with these solutions from USABlueBook!*

## FOR SMALLER APPLICATIONS AND LIFT STATIONS

### Goulds GFK and GFV Series Sewage Pumps

- Non-clog impellers handle wipes and 2" solids

### FlowRake Rag Catchers

- Catch and retain flushables



OPERATOR  
DESIGNED



USABlueBook  
EXCLUSIVE

## FOR LARGE MUNICIPAL LIFT STATIONS

### Deming Demersible Chopper Pumps

- Slice the most troublesome solids into small pieces

### StationGuard Manual Bar Screens

- Capture damaging wipes and debris

DEMING®



OPERATOR  
DESIGNED



**USABlueBook®**  
GET THE BEST TREATMENT™

GET PRODUCT DETAILS AT  
[usabluebook.com/NoMoreClogs](http://usabluebook.com/NoMoreClogs)

800.548.1234 • [usabluebook.com](http://usabluebook.com)