



**Delaware Rural Water Association  
31st Annual Technical Conference & Exhibition  
Delaware State Fairgrounds, Harrington, DE**

**August 17-18-19, 2021**

**ATTENDEE REGISTRATION**

**Registration Fee (Per Person)**

**Members \$50.00/Non-Members \$75.00 (thru 8/1/2021)**

**Members \$75.00/Non-Members \$100.00 (after 8/2/2021)**

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First 100 Registrations Receive  
a Free DRWA Hat

**Tuesday, August 17, 2021**

8:00 am—7:00 pm	Exhibitor's Set-Up Exhibits & Registration Open	
1:00 pm—2:30 pm	<b>1) Intro to the DE State Plumbing Permit and Inspection Program</b>	Plumbers
12:30 pm—2:30 pm	<b>2) How Real-Time Water Distribution Data Improves Operations in Decision Making</b>	W
	<b>3) Smith &amp; Loveless Mechanical &amp; Electrical Pump Processes</b>	WW
	<b>4) Sewer Camera Techniques for Finding I &amp; I</b>	WW
2:30 pm—3:45 pm	<b>5) Intro to GASTITE Piping Systems and How to Become a Certified Installer</b>	Plumbers
3:00 pm—5:00 pm	<b>6) Vacuum Wastewater Conveyance Systems Plus COVID Safety</b>	WW
	<b>7) Iron Manganese &amp; Corrosion Control</b>	W
	<b>8) Rapid Response Safety Procedures in the Treatment Facility &amp; Distribution Outside</b>	W/WW
3:45 pm—5:00 pm	<b>9) Everything You Wanted to Know About Grease Interceptors in An Hour</b>	Plumbers
4:30 pm—7:00 pm	Meet & Greet	

**wednesday, August 18, 2021**

8:00 am—5:30 pm	Registration & Exhibit Hall Open	
8:00 am—10:00 am	Continental Breakfast in Exhibit Hall Building	
9:30 am—10:30 am	<b>10) Hydrant Flushing – Water Quality Benefits</b>	W
	<b>11) Steel Package Wastewater Treatment Plant Overview for Small WW Systems</b>	WW
	<b>12) Hill's VFD Training Trailer</b>	W/WW
9:30 am – 11:30 am	<b>12A) Delaware Regulation on Cross Connection Control</b>	W
12:00 pm—1:00 pm	Box Lunch	
12:00 pm – 2:00 pm	Ice Cream Social	
2:00 pm – 3:00 pm	<b>13) Lead and Copper Rule-How to Prepare, Adopt and Implement w/ Minimal Disruption</b>	W
	<b>14) Intersection of FLU/COVID-19/PPE</b>	W/WW
	<b>15) Pump Maintenance and Troubleshooting – Hands-On Training</b>	W/WW
3:15 pm—4:15 pm	<b>16) Pipe Locating Basics - The Science Behind Your Locator</b>	W/WW
	<b>17) Apprenticeship 101</b>	W/WW
	<b>18) VFD Industrial Hands-On Training Unit</b>	W/WW
	<b>19) Automatic Control Valves (ACV)</b>	W/WW
4:30—8:00 pm	Social Event	

**Thursday, August 19, 2021**

8:00 am—2:30 pm	Registration & Exhibit Hall Open	
8:00 am – 10:00 am	Continental Breakfast in Exhibit Hall Bldg.	
9:30 am—10:30 am	<b>20) Decentralized Membrane Bio-Reactor Technology Innovations for Nutrient Removal</b>	WW
	<b>21) Water Allocation Program Overview</b>	W
	<b>22) VFD Industrial Hands-On Training Unit REPEAT</b>	W/WW
10:45 am—11:45 am	<b>23) Practical Use of Air Vacuum Valves for Water &amp; Sewage Applications</b>	W/WW
	<b>24) We've Got What You Need Funding</b>	W
	<b>25) Automatic Control Valves (ACV) REPEAT</b>	W/WW
12:00 pm—1:00 pm	Box Lunch	
12:00 pm – 2:30 pm	Ice Cream Social	
1:30 pm—2:30 pm	<b>26) Lift Station Process Control to Improve Health Dealing with Gases</b>	WW
	<b>27) Sampling and Treatment of PFAS Substances in Drinking Water and Wastewater</b>	W/WW
	<b>28) Pump Maintenance &amp; Troubleshooting Hands-On Training REPEAT</b>	W/WW
2:30 pm	Conference Concludes	



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## DRWA TRAINING CLASSES

- 1) Intro to the DE State Plumbing Permit and Inspection Program** Ag Bldg.  
During this presentation, the attendees will learn about the process of obtaining permits and inspections, the current codes in place and emerging issues within the plumbing field.  
*Chuck Davidson, DHSS* Plumbers
- 2) How Real-Time Water Distribution Data Improves Operations' in Decision Making** Kent Bldg.  
Attendees will learn how small and mid-sized utilities are using all kinds of sensor data like water temperature, reverse flow and leak detection in near-real time improves efficiencies and situational awareness for improved decision making in operations and related department. *Jim Kiles, Kamstrup* Water - Direct
- 3) Smith & Loveless Mechanical and Electrical Pump Processes** Delaware Bldg.  
The basic components of a pump and vacuum primed system will be covered as well as identifying the components of 3 vacuum primed systems. Types of wet well mounted pump stations will be covered as well as electrical equipment of a pump station. *David Bryan, Smith & Loveless* Wastewater -Direct
- 4) Sewer Camera Techniques for Finding I & I** Kent Bldg.  
The operator will learn the functions of the sewer camera with instruction on how to operate it. The operator will learn how to save footage on a thumb drive and tips on finding points of infiltration which will shock the wastewater process if not detected or mitigated. This course is outside and is 100% hands-on.  
*Bob Miller and Adam Emusov, Jet Vac Equipment* Wastewater -Direct
- 5) Intro To GASTITE Piping Systems and How to Become a Certified Installer** Ag Bldg.  
You will be introduced to the innovation of the GASTITE Piping Systems, how it works and why it is chosen so often in today's plumbing industry. You will also be guided on the process of becoming a Certified Installer. *Charlie Robbins, M Davis, Inc.* Plumbers
- 6) Vacuum Wastewater Conveyance Systems Plus COVID Safety** Kent Bldg.  
The presentation will describe how vacuum sewers are designed to overcome obstacles and how this effects the process control. The limitations of vacuum sewers will be discussed with emphasis on process needs like system size, elevation differences, line lengths and flow parameters.  
*Philip Crincoli, Aqseptence Group, Inc.* Wastewater - Direct
- 7) Iron Manganese & Corrosion Control** Delaware Bldg.  
This class will touch on the basic problems caused by excessive iron and manganese in a drinking water system.  
*Tim McComas, Coyne Chemical & Anita Beckel, DRWA* Water - Direct
- 8) Rapid Response Safety Procedures in the Treatment Facility and Distribution** Kent Bldg.  
*Cotton Collins, Tech Rescue Team* Water & WW (TBD)
- 9) Everything You Wanted to Know About Grease Interceptors in An Hour** Ag Bldg.  
This class will provide an overview into how to properly size a unit as mandated by the plumbing code, comparisons between PDI and ASME Standards and what is the difference between yellow and brown grease. *Nick Azmo, Nick Azmo Consulting Group* Plumbers



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**10) Hydrant Flushing – Water Quality Benefits**

Kent Bldg.

This course will present a general presentation on flushing techniques and the subsequent water quality-focused benefits. *Ryan Flickinger & Kevin Nyamumbo, KCI*     Water - Direct

**11) Steel Package Wastewater Treatment Plant Overview for Small WW Systems**

Delaware Bldg.

This class is designed to demonstrate wastewater package plants that serve from 5 thousand to 300 thousand in population and serving municipalities to provide industry to subdivisions, schools and businesses. This will give the operator a better idea of new technologies and process related educational information.

*John Gyllenswan, Pro-Water Systems*     WW - Direct

**12) Hill's VFD Training Trailer**

Kent Bldg.

This class will be a hands-on learning experience utilizing how VFD's control the flow of water to and from plants and lift stations to save energy cost. Each participant will be able to view the trailer.

*John Gunn & Brad Pitera, World Wide Electric*     Water & WW – Direct

**12A) Delaware Regulation on Cross-Connection Control**

Kent Bldg.

During this presentation the attendees will be introduced to the overview of the regulation & requirements for all water providers, Cross Connection Plan and staff requirements, Inspection, Backflow Testing and Data Management Requirements     *Larry La Bute, HydroCorp, Inc.*     Water - Direct

**13) Lead and Copper Rule – How to Prepare, Adopt and Implement with Minimal Disruption**

Kent Bldg.

This class will walk you through all the nuances of the updated Lead and Copper Rule. An examination of the toughest challenges in the rule, best practices on planning/implementation and how smaller rural systems can best prepare will be discussed. *Lowell Huffman, 120 Water*     Water - Direct

**14) Intersection of FLU/COVID-19/PPE**

Delaware Bldg.

This class will distinguish the types of Epidemiologic disease descriptions, modes of transmission of FLU and COVID-19 and an understanding of the differences between the flu and COVID-19 and why PPE is important.

*Holly Helmick, Bayhealth Medical Center*     Water & WW - Indirect

**15) Pump Maintenance and Troubleshooting Hands-On Training**

Kent Bldg.

This class is to train operators and maintenance personnel on maintenance and troubleshooting of centrifugal pumps used for pumping water, wastewater and sludges.

*William LaPorte & Roger Stauffer, Envirep and Eric Knudsen, The Gorman-Rupp Co.*     Water & WW - Direct

**16) Pipe Locating Basics - The Science Behind Your Locator**

Kent Bldg.

We will cover the Theory of Electromagnetic Field locating including tips and tricks to help with the difficult locates.     *Jim Verga, Eastcom Associates*     Water & WW - Direct

**17) Apprenticeship 101**

Delaware Bldg.

We are highly aware of the need for skilled water & wastewater system specialists now and in the very near future. Attend this class to learn about the apprenticeship program and how you can become registered.

*Lynn Danner & Joliene Ivory, DRWA*     Water - Indirect & WW - N/A

**18) VFD Industrial Hands-On Training Unit**

Kent Bldg.

This class is a hands-on training trailer containing many VFD work stations. These stations will give the operator the opportunity to operate and read displays and watch pumps power up.

*Larry Stanley, ABB*     Water & WW - Direct



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**19) Automatic Control Valves (ACV)**

Kent Bldg.

This course will learn the fine art of regulating water flow in the domestic water supply through Automatic Control Valves or as they are better known in the industry as an ACV.

*Nick Azmo, Nick Azmo Consulting Group*

Water & WW Direct

**20) Decentralized Membrane Bio-Reactor Technology Innovations for Nutrient Removal**

Kent Bldg.

This discussion will cover the many various types of semi-permeable membranes available today on the market for use in membrane bio-reactor (MBR) applications. *Rob Kershner, Kershner Environmental*

WW Direct

**21) Water Allocation Program Overview**

Delaware Bldg.

The Allocation Program is responsible for water withdrawals, greater than 50,000 gallons per day, from any surface water or groundwater source in Delaware.

*Patty Murray, DNREC*

Water Indirect

**22) VFD Industrial Hands-On Training Unit REPEATED**

Kent Bldg.

This class is a hands-on training trailer containing many VFD work stations. These stations will give the operator the opportunity to operate and read displays and watch pumps power up.

*Larry Stanley, ABB*

Water & WW Direct

**23) Practical Use of Air Vacuum Valve for Water & Sewage Applications**

Kent Bldg.

This class will discuss evaluating valves to choose the best valve for an application and the effects of air release valves on pipeline performance and operation for process control for both water and sewer systems.

*Ian Johnson, RF Valves*

Water & WW Direct

**24) We've Got What You Need - Funding**

Delaware Bldg.

The Delaware Division of Public Health's Drinking Water State Revolving Fund's Program Administrator will share all the program's funding opportunities. This will include information about the low interest loan program, possible principal forgiveness subsidies and all of the various companion grants.

*Sandi Spiegel, Delaware Department of Health and Social Services*

Water Indirect

**25) Automatic Control Valves (ACV) REPEATED**

Kent Bldg.

This course will learn the fine art of regulating water flow in the domestic water supply through Automatic Control Valves or as they are better known in the industry as an ACV.

*Nick Azmo, Azmo Consulting Group*

Water & WW Direct

**26) Lift Station Process Control to Improve Health Dealing with Gases**

Kent Bldg.

This class will provide an overview of lift stations and the biological process needed for degradation as well as control solutions for F.O.G. and H<sub>2</sub>S.

*Dick Marcheski, Maryland Biochemical Company*

WW Direct

**27) Sampling and Treatment of PFAS Substances in Drinking Water and Wastewater**

Delaware Bldg.

This class will provide an overview of PFAS characteristics, where they come from, their properties and health effects and concerns.

*Dr. Charles R. Powley, Center for PFAS Solutions*

Water & WW Direct

**28) Pump Maintenance and Troubleshooting – Hands-On Training REPEATED**

Kent Bldg.

This class is to train operators and maintenance personnel on maintenance and troubleshooting of centrifugal pumps used for pumping water, wastewater and sludges.

*William LaPorte & Roger Stauffer, Envirep and Eric Knudsen, The Gorman-Rupp Co.*

Water & WW Direct

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## GENERAL INFORMATION

**Conference Registration** - Please check in at the DRWA Registration desk located at the entrance of the Dover Building to pick up your registration packet.

### Credit Hours

#### **Documenting Your Attendance:**

Sign-in sheets will be in every training class you attend and you will be required to sign-in in order to obtain your credit hours for each class. Please print your name legible so that we can give you your credit hours. Certificates of credit hours will be given out at the end of each training class.

- **A Free Hat** will be given out to the first 100 attendees to register for this years' conference.
- **50/50 Tickets** will be available for purchase each day. Buy your tickets at the conference to try and win CASH each day! Winner to be announced at the meet & greet and social event each day. You do not have to be present to win!
- **Conference T-Shirts** will be given out free to all attendees. Get your t-shirts at the DRWA Registration desk under the tent at the entrance to the Dover Bldg.



The **Ice Cream Truck** will be outside the Dover Building on August 18, 2021 from 12:00 pm—2:00 pm and again on Thursday, August 19, 2021 from 12:00 pm—2:30 pm. A ticket to obtain ice cream each day will be in your name badge holder. Please present the ticket to get your ice cream!



**Meet & Greet and Social Event** – Please attend these events to mingle with your peers and exhibitors. Light refreshments/drinks will be provided along with music and games from 4:30 – 7:00 pm on Tuesday, August 17, 2021 and from 4:30 – 8:00 pm on Wednesday, August 18, 2021.

**COVID Protocols** – Masks will be required for all attendees. Social distancing is required by all in attendance. Seating at training classes will be limited as well as entrance to the exhibit hall. Requirements may change at a later date!

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## GENERAL INFORMATION

**2021 Water Taste Test Contest** – Fill out the registration form enclosed and mail it to DRWA at 210 Vickers Drive, Milford, DE 19963 prior to the conference in order to register your water sample. Then bring your quart jar of water to the DRWA Registration Table on Wednesday, August 18, 2021 by 10:00 am. Judging for best tasting water will be by conference attendees from 12:00 – 4:00 pm. Winner of the best tasting water to be announced on Thursday, August 19, 2021.



**Box lunches** will be provided each day for attendees and exhibitors attending the conference on Wednesday from 12:00-1:00 pm and on Thursday from 12:00-1:00 pm. Box lunches will be located in the Kent and Dover Building.



**Exhibitors** – Please plan on visiting the exhibitors in the Dover Building to learn about their products and services. This is a great way to meet with so many of our vendors and gain the knowledge you need. Please remember the exhibitors help pay a lot of the conference expenses in order to keep attendee registration at a reasonable cost. Be sure to thank each of them for their support!

**Future Training Classes** – If you need a special training class in the future, please let us know and we will prepare the class for you. DRWA holds training classes each month throughout the year and also at the conference each year. We are here for you and need your input as to what you need! We look forward to hearing from each of you in future training endeavors!

**Please remember the following up-coming events to be held by DRWA. Registration forms available at the DRWA Registration Desk under the tent.**

### “SPONSORS NEEDED”

- **October 7, 2021** – DRWA Golf Tournament (proceeds to fund the Water & WW Operator Award) to be held at Jonathan’s Landing in Magnolia, DE
- **October 8, 2021** – DRWA Operator EXPO to be held at Frederica Senior Center in Frederica, DE
- **October 15, 2021** – DRWA Sporting Clay Shoot at Owens Station in Greenwood, DE



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Name of Person(s) Attending: \_\_\_\_\_

System Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

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**Sponsorship Opportunity**

**As a "Friend of Rural Water" you can help Delaware Rural Water Association continue educating and supporting water and wastewater systems in Delaware.**

**I (we) would like to be a Friend of Rural Water**

**\$100**

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**Please Circle:    System Personnel                  Plumber**

**Payment Information**

w/WW Members \$50.00 / Non-Members \$75.00 Per Person (through 8/1/2021)  
w/WW Members \$75.00 / Non-Members \$100.00 Per Person (after 8/1/2021)  
Plumbers \$40.00

**Type of Payment:** Visa/MasterCard    Check # \_\_\_\_\_    PO # \_\_\_\_\_

Card # \_\_\_\_\_    Name on Card: \_\_\_\_\_

Exp. Date: \_\_\_\_\_ CSV # \_\_\_\_\_    Address: \_\_\_\_\_

Signature: \_\_\_\_\_    City/State/Zip: \_\_\_\_\_

Amount of Payment Enclosed: \_\_\_\_\_

**Complete & Return with Your Payment to:**

Delaware Rural Water Association  
210 Vickers Drive, Milford, DE 19963  
302-424-3792 (ph) 302-424-3790 (fax) delawareruralwater@yahoo.com (email)