

DRAFT SCHEDULE – VRWA 32nd ANNUAL CONFERENCE AND EXPOSITION
April 19-22, 2021

Agenda is tentative. Times and topics are subject to changes

MONDAY, APRIL 19, 2021

9:00 am – 4:00 pm	Protecting Employees from Internal and External Threats: Strategies For Keeping the Workplace Safe, VRSA <u>AM Session – Part 1 (3 W/WW/S/M CPEs)</u> 9am-11am: Active Shooter/Workplace Violence Response and Prevention 11am-12pm: Crisis Communications
12 noon – 1:00 pm	BREAK
	<u>PM Session – Part 2 (3 W/WW/S/M CPEs)</u> 1pm-2pm: How to Have Difficult Conversations 2pm-3pm: Corrective Action and Termination 3pm-4pm: Professional Behaviors in the Workplace

Throughout the live sessions from Tuesday, April 20 – Thursday, April 22, you will have the opportunity to play games for chances to win prizes. Winners will be announced throughout the day, so make sure you stick around to win. You must be present to win!

TUESDAY, APRIL 20, 2021

Class Codes: Water – W, Wastewater – WW, Safety – S, Management - M

8:30 am – 9:00 am	Virtual Exhibit Hall – Live Chat
9:00 am – 10:00 am	Concurrent Training Classes (4)

1) How to test Solid State Meters on Test Benches Designed for Mechanical Meters and Still Get Accurate Results (W)

Jim Kiles (Kamstrup), Tom Kelly (Premier Metering Concepts)

While metering technology has seen a rapid development towards highly accurate solid state meters, the associated testing technology used by most US testing facilities has stagnated. This creates a set of challenges for both manufactures and utilities. Factors impacting meter testing will be discussed and examples given on how to adjust test benches designed for mechanical meters to achieve accurate results.

2) Precast Manhole & Vault Installation – Best Practices (WW, Safety)

Hank Gottschalk (Concrete Pipe & Precast)

This session will cover best practices for installation of precast concrete manholes, vaults, and other buried structures. Topics include delivery, safe lifting, handling & storage, inspection, accepting and/or repairing damaged sections, foundation & bedding, stacking & joining sections, pipe connections, and backfill requirements.

3) Water Loss Reduction Through Pressure Management (W, WW, M, Safety)

Jason Barrett (Flomec) and Ryan Carrol (Singer Valve)

In this presentation, participants will learn the cause of non-revenue water losses. Leakage reduction measures and solutions to mitigate NRW losses will also be discussed.

4) A Central Virginia Utility's Road Map to Asset Management Implementation (W, WW, M)

Frank Haltom, PE (Prince George County, VA) and Brian Houston, PE & Adrianna Dimperio, PE (Draper Aden)

Asset management is a critical component to every water and wastewater utility, regardless of size, complexity, or system type, and can help a utility maximize the value of its capital and O&M funds. Prince George County has developed a comprehensive program that provides a road map to move the county to a proactive and robust asset management program. This presentation will discuss Prince George County's experience and implementation along with lessons learned.

10:00 am – 10:15 am	Roundtable Sponsored by Southern Software
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10:15 am – 11:00 am	Virtual Exhibit Hall – Live Chat
11:00 am – 12 noon	Opening Session Be Water Resilience Ready , Karen Edwards-Lindsey (USEPA, Water) During this session, USEPA will discuss the American Water Infrastructure Act (AWIA), which requires community water systems serving populations of 3,000+ to assess risks and develop resilience plans. Participants will learn about the tools and resources available to assist in assessment and planning. A demonstration using Community-Based Water Resiliency (CBWR) will also be given.
12 noon – 1:00 pm	VRWA Annual Business Meeting This is the meeting of the VRWA Delegates to discuss the business of the Association and to elect directors for those seats that have expired.
1:00 pm – 2:15 pm	BREAK – Go to the Exhibit Hall / Play the VRWA Conference Game / Grab a bite to eat or drink / Do some work
2:15 pm – 3:00 pm	Virtual Exhibit Hall – Representatives available for Live Chat
2:30 pm – 2:45 pm	Roundtable Sponsored by Heyward
3:00 pm – 4:00 pm	Concurrent Training Classes (4)

1) Fast-Tracked Chemical System Upgrade to Meet Critical Regulatory Compliance (W)

Brett Heim, PE (Dewberry) and Brenton Payne, PE (Gloucester County Engineering Director)

In this presentation, see how Gloucester County dealt with regulatory concerns of TTHMS in water. There will be a discussion about the effect of chlorine disinfection of DBP formation and regulatory environment.

2) Bioaugmentation and the Biological Process (WW)

Dick Maccueski (Maryland Biochemical)

The class consists of a description of the biological process of wastewater treatment. All there will be a discussion of augmentation for F, O, & G, nutrient removal, and reducing sludge handling costs.

3) Ceramic Membranes, The Fiber-Free UP Offering a 20 Year Life (W / WW)

Thomas Stanton (Water Membranes Systems, LLC)

The presentation discusses Ceramic Membranes for use in treatment fields. It will discuss how these membranes are made, what they are made of and how they are assembled in order that they can be used in the various water and wastewater treatment applications. Various projects will also be presented with a discussion of application and cost.

4) UCMR 5 – 2023-2025 – What Will be its Challenges and Costs? (W, WW, M)

Paul Jackson (PACE Analytical)

In February 2021 U.S. EPA issued its UCMR 5 proposal. Once published in the Federal Register EPA will accept public comments, and with that and other input will finalize the Rule by winter 2021. The proposal limits the required contaminants to 30 and three test methods (two devoted entirely to PFAS) but includes all systems that serve 3,300 – 10,000 consumers (an additional 5,000+ water systems). The Biden EPA may opt to add additional contaminants and test methods.

4:00 pm – 4:15 pm Roundtable Sponsored by Graybar

WEDNESDAY, APRIL 21, 2021

Class Codes: Water – W, Wastewater – WW, Safety – S, Management - M

8:30 am – 9:00 am Virtual Exhibit Hall – Live Chat

9:00 am – 10:00 am Concurrent Training Classes (4)

1) Piping Valve Material Thru the Years (W)

David Burns (Core & Main)

This presentation will cover our aging infrastructure in regards to types of pipes and valves. And overview of the design of those pipes and the challenges we all face in maintain our distribution systems.

2) Effective Ammonia Based Aeration Control Using real-Time Process Colorimetry (WW)

Tony Freed (ChemScan, Inc.)

Participants will better understand the nitrification process in wastewater treatment and gain insights into the role of ammonia monitoring to control the air supply and nitrification. The function of online process analyzers will also be discussed including their simple maintenance.

3) Electric Bill Savings through Solar via the Virginia Clean Economy Act (W / WW / M)

Anthony C. Fotopoulos (Keystone Power Holdings, LLC)

During this session the use of solar power for water and wastewater facilities will be discussed. Also to be discussed is how to receive benefits from the Virginia Clean Economy Act.

4) Utility Benchmarking – Richmond Study (M)

Aziz Ahmed (Cha Consulting)

This presentation will discuss benchmarking idea, scope, and process through an actual benchmarking project done for Richmond. Through this discussion, see how to compare one's performance with other utilities and to develop programs/projects to eliminate or minimize the performance difference.

10:00 am – 10:15 am Roundtable Sponsored by Southern Corrosion

10:15 am – 11:15 am BREAK – Go to the Exhibit Hall / Play the VRWA Conference Game / Grab a bite to eat or drink / Do some work

11:15 am – 12:00 noon Virtual Exhibit Hall – Representatives available for Live Chat
11:30 am – 11:45 am Roundtable Sponsored by CROM, LLC

12:00 noon – 1:00 pm Concurrent Training Classes (4)

1) Water Meter Accuracy (W)

Dave Miller (Core and Main)

Meter accuracy and how it affects utilities will be discussed. In addition, strategies for the utility to be proactive with their meter system accuracy will also be presented.

2) Protecting Against I&I in Manholes (WW)

Bob Loughney (Aqueous Sales, Inc.)

This presentation will discuss solutions for maintaining a watertight seal with manhole adjusting rings resulting in significant cost savings. Learn about reducing I&I in manholes to meet EPA requirements.

3) Variable Frequency Drives for Pumping – Best Practices and VFD Reactive Maintenance (W, WW)

Nathan Marks (Graybar Electric) and Theo Kekis (Schneider Electric)

This presentation will explain the difference between the variable frequency drives and soft starts for pump motors in the water and wastewater markets. Presenters will also share applications for pump motors, reactive maintenance, disaster recovery plan, diagnostics, the correct wiring and grounding needed, H2S gas mitigation and corrective actions.

4) Water Resiliency in Puerto Rico & Global Water Crisis (W, M)

Christopher Fewster, PE (Blue Ridge Engineering & Construction) and David Inman, PE (Water Mission)

This presentation will cover the impacts of Hurricane Maria on the public water systems and how the project stakeholders responded to the emergency and how they are developing a more resilient water system for their emergency shelters in the event of another disaster like Maria. Water Mission has done some solar water projects in Puerto Rico, and currently are discussing ways to work with Rural Water in Puerto Rico to further strengthen their efforts in improving these rural water systems.

1:00 pm – 1:15 pm Roundtable Sponsored by Hurt and Proffitt

1:15 pm – 2:15 pm BREAK – Go to the Exhibit Hall / Play the VRWA Conference Game / Grab a bite to eat or drink / Do some work

2:15 pm – 3:00 pm Virtual Exhibit Hall – Representatives available for Live Chat
2:30pm – 2:45 pm Roundtable Sponsored by US Cellular

3:00 pm – 4:00 pm Concurrent Training Classes (4)

1) Asset Mapping – Tips and Tricks in the Field and Office (W / WW)

York Grow (Duncan-Parnell)

Properly mapping an asset both with locational accuracy and attribute accuracy are important to quality management both for creating physical maps but also for managing the data. This session will include best practices for consistent attribute collection based on industry models and best practices for using GNSS technology in the field. This session will include live field sessions to discuss challenges of collecting features in difficult locations. This session will review several software technologies.

2) Arc Flash – Awareness, Safety, and Action (W, WW, M, S)

Nick Huffman, PE (McGill Associates)

An arc flash is a dangerous condition associated with the explosive release of energy within an electrical distribution system caused by an electrical arc due to either a phase-to-ground or phase-to-phase fault. This session will dive into what you need to know about arc flash including how to protect employees, understanding of compliance with state and federal laws, and look at risk of facilities. Attendees will learn about action steps to implement in their organization.

3) The Transition from Mutual Read to Smart Metering in Rural Communities (W, M)

Leslie Barksdale, PE (Dewberry) and Mark Estes & Scott Erhardt, PE (Halifax County Service Authority)

HCSA is transitioning to a completely radio based communication system that is interactive and transparent to customers. Reliable water accounting, improved customer service increased revenue from water loss, and reserved resources are a few of many goals for HCSA achieved by this project. Participants will learn the why from HCSA, the how behind specification development and bidding, and lessons learned to date with meter installation and AMI integration.

4) You're a Target, Protect Your Facility: Securing Your Work Environment

Marcus Hensel (Virginia Risk Sharing Association)

Cyber risks are not emerging risks – they are here today. Public bodies may take steps to reduce the likelihood of a cyber incident in three defined areas: technical, physical and administrative. This discussion will center on helping you identify and understand the importance of security risks in your work environment.

4:00 pm – 4:15pm

Roundtable Sponsored by Dennis Sales

THURSDAY, APRIL 22, 2020

Class Codes: Water – W, Wastewater – WW, Safety – S, Management - M

8:30 am – 9:00 am

Virtual Exhibit Hall – Live Chat

9:00 am – 10:00 am

Concurrent Training Classes (4)

1) Best Practices for Distribution Flushing, Fire Flow Testing, and Sampling (W)

Pat Burke and Chris Burkett (Ferguson Enterprises)

Distribution lines can accumulate all sorts of things that can have a negative impact on water quality, fire flows, and distribution system efficiency. In addition, oversized water mains and dead ends can make it difficult to maintain desired chlorine residuals throughout your system. It is therefore essential to maintain a flushing program, which consists of annual or semi-annual unidirectional flushing. In addition it is critical to maintain fire flow testing. This course will help provide new ways to perform sampling.

2) Modeling for Success: Upgrading Lagoon Based Treatment Systems to Meet More Stringent Limits for BOD, TSS, and Nutrient Removal (WW, M)

Mark Rasor (Lemna Environmental Technologies)

Wastewater treatment process design modeling software, which models biological, chemical, and physical treatment processes, can be used to optimize the design, performance and reliability of lagoon based treatment systems. Learn how this software can simulate models which analyze performance of existing facilities and the expected performance of proposed facilities. It can be used to investigate the impact of various changes in loadings and temperatures and performances with regards to BOD, TSS, and ammonia removal.

3) Implementaiton of an Alternative Water Supply for the Old Oaks Community (W, Groundwater)

Bruce Strickland (Timmons Group) and Matt Longshore, PE (Goochland County)

This session will cover the Corrective Action Plan associated with the release of gasoline from an underground storage tank (UST) into the groundwater below Crozier, VA. Presenters will discuss the history, funding, stakeholders, design, and construction of the Crozier water system expansion to replace the contaminated drinking wells in the Old Oaks community.

4) Communicating Emerging Contaminants to Your Customers and the Media (W, WW, M)

Mike McGill (WaterPIO)

The growing drumbeat of chemical discoveries represents the greatest threat to public confidence in drinking water. Water utilities have long relied on regulatory guidance to help them handle discoveries in emerging contaminants. Unfortunately advances in water testing are outpacing the regulatory process and when they make news, the result in drinking water standards that are difficult for utilities to meet without millions in new treatment. Learn how to develop a communications plan and how to help customers and media understand contaminants in water.

10:00 am – 10:15 am	Roundtable Sponsored by Draper Aden Associates
10:15 am – 11:15 am	BREAK – Go to the Exhibit Hall / Play the VRWA Conference Game / Grab a bite to eat or drink / Do some work
11:15 am – 12:00 noon	Virtual Exhibit Hall – Representatives available for Live Chat
11:30 am – 11:45 am	Roundtable Sponsored by SUEZ
12:00 noon – 1:00 pm	Concurrent Training Classes (4)

1) Design Build Success Story: Major WTP Upgrade On-Time & Under Budget (W)

Timothy Natoli and Ken Baybutt (Bowman Consulting) and Kyle O'Brien (Town of Broadway)

Hear the Town of Broadway's success story in a WTP upgrade. Through their experience, you can gain a better understanding of how to pursue a Design Build Project and how it can work for you.

2) Wastewater Treatment Plant Closures: Flow Diversions Using Multiple Construction Delivery Methods to Facilitate WWTP Closures (WW)

Ryan Delo (RK&K, LLP)

The topics will focus on contracting delivery methods for projects required to close up to three WWTP and divert flows to other facilities. Closure of the facilities was determined to be a cost effective alternative to costly upgrades. The projects include the design and construction of pipeline and pump station projects to convey flows to other treatment plants. The projects will be constructed under multiple construction delivery methods including Design-Bid-Build, Design-Build and Construction Manager at Risk.

3) Water and Wastewater Plant Instrumentation (W, WW)

TJ Johnson (Delta Systems Environmental)

Participants will learn the reasons flow needs to be monitored at WWTP and water plants. Instrumentation and procedures used to measure will be discussed. Both open channel and full pipe flow applications will be addressed.

4) USDA/RD Water and Wastewater Financing (W, WW, M)

Robert Hilt (USDA Rural Development)

USDA Rural Development will present an overview of its financing programs for water and wastewater projects. The types of projects, eligibility requirements, rates and terms, and how to apply will be discussed.

1:00 pm Closing Session / Awards / Grand Prize

VRWA – Here for YOU and Virtually Everywhere Too!

