



MAINE WATER UTILITIES ASSOCIATION
MWUA
OUR WATER. YOUR FUTURE.

96TH ANNUAL CONFERENCE

AND TRADE SHOW



FEBRUARY 2-3 (In-person)
FEBRUARY 10 (Virtual)

IN-PERSON AND VIRTUAL CONFERENCE



15 University Dr
Augusta, ME 04330
OFFICE: (207) 623-9511

Thanks for joining us!

MAINE WATER UTILITIES ASSOCIATION welcomes you to our 96th Annual Conference and Trade Show, co-sponsored by the Training and Program Committee (TaP), Maine Water Environment Association (MeWEA), and the Maine Water Utilities Association (MWUA).

The February conference has long served as the venue for the demonstration of new products and the exchange of operational tips and techniques. The Association's Associate Members provide much in the way of resources and energy in order to make the Conference such a success. The Program Committee, the Directors and other volunteer members all contribute to this effort as well.

The 2022 conference will be held in-person on February 2nd and 3rd at the Augusta Civic Center. December 10th will be our virtual day. The in-person portion will include training, exhibitors, demos and other activities that have been held in the past. There will be no exhibitors on the virtual day.

There is an opportunity to register for the 2022 conference online and make payments using a credit card. If the bill me option is chosen, the invoice must be paid before the conference.



IN-PERSON CONFERENCE SCHEDULE

WEDNESDAY, FEBRUARY 2 (Trade Show 7:45 AM - 3:30 PM)

Professional and Technical Sessions

7:00 AM Registration

Opening Session: Public Advocate

7:45 - 9:00 AM

Product Demos

9:15 - 3:00 PM

Session 1: DWP Lead & Copper Updates.....	9:15 - 10:15
Session 2: Hydrants, Hydrants, and More!.....	9:15 - 10:15
Session 3: Treatment with Peracetic Acid.....	9:15 - 10:15
Session 4: Water Math - Part 1, "It's As Easy As 3.14159.....	9:15 - 10:15
PRODUCT DEMO: Asphalt Repair in Wet & Cold Conditions.....	9:15 - 9:45
Session 5: Mobile Workforce Automation: Paper to Paperless in Minutes with SOSMobile.....	10:30 - 11:30
Session 6: PFAS Removal by Point of Use Filters? Don't Stop Believin' It Can Happen!.....	10:30 - 11:30
Session 7: Water Math - Part 2, "Ain't Nuthin' 2 It But 2 Do It.".....	10:30 - 11:30
Session 8: Water Stewardship and Long-Term Sustainable Source Management.....	10:30 - 11:30
PRODUCT DEMO: Technology Advancements on Hydrants w/ the iHydrant.....	10:30 - 11:00
Session 9: Assessing Your Wells.....	1:15 - 2:15
Session 10: Fall Protection.....	1:15 - 2:15
Session 11: So, You Think You Know the Safe Drinking Water Act?.....	1:15 - 2:15
Session 12: Treating 1,4-Dioxane	1:15 - 2:15
PRODUCT DEMO: Pipe Repair Fitting Selection Training and Versa Coupling Installation.....	1:15 - 1:45
Session 13: Active Control of THM Levels in Drinking Water Distribution Systems.....	2:30 - 3:30
Session 14: Confined Space.....	2:30 - 3:30
Session 15: HydroGeo – Understanding the Health of your Groundwater Well.....	2:30 - 3:30
Session 16: MWUA's Projects Rollout.....	2:30 - 3:30
PRODUCT DEMO: Paper to Paperless in Minutes with SOSMobile.....	2:30 - 3:00

THURSDAY, FEBRUARY 3 (Trade Show 8:00 AM - 3:30 PM)

Session 17: An Update on PFAS & Developments in ME & NE	8:00 - 9:00
Session 18: Facing the Challenges of Providing Licensed Operational Services.....	8:00 - 9:00
Session 19: Let's Lock It Down - Cybersecurity for Water & Wastewater.....	8:00 - 9:00
Session 20: WP Case Study - Kennebec River Intake & Pump Station Skowhegan, Maine.....	8:00 - 9:00
Session 21: Xylem Digital Solutions.....	8:00 - 9:00
Session 22: Cybersecurity - Case Studies & the Regulator's Perspective.....	9:15 - 10:15
Session 23: Evaluating Workflows & Software Platforms in the Water World.....	9:15 - 10:15
Session 24: Polymer "An Owners' Manual"	9:15 - 10:15
Session 25: Using Dashboards to Leverage GIS Data.....	9:15 - 10:15

Session 26: WP Case Study - Bath Water District Treatment Facility Upgrades.....	9:15 -10:15
Session 27: DWP PFAS Update & Sampling.....	10:30 -11:30
Session 28: Getting the Most Out of Your Water System Model.....	10:30 -11:30
Session 29: MPUC Terms and Conditions.....	10:30 -11:30
Session 30: SCADA Cybersecurity.....	10:30 -11:30
Session 31: Wipes - Progress on Legislation, Marketing, & Education	10:30 -11:30
Session 32: Carbon 101: Use of Granular Activated Carbon for Water Treatment.....	1:15 - 2:15
Session 33: Changing Technology for GIS.....	1:15 - 2:15
Session 34: Funding Resources - Panel Discussion.....	1:15 - 2:15
Session 35: Looking Past COVID-19 - Lessons Learned Here in Maine - Part 1.....	1:15 - 2:15
Session 36: Maintenance & Equipment Reliability	1:15 - 2:15
Session 37: Lead & Copper Compliance.....	2:30 - 3:30
Session 38: Long Term Financial Planning – The Key to Managing Rate Impacts.....	2:30 - 3:30
Session 39: Looking Past COVID-19 - Lessons Learned Here in Maine - Part 2.....	2:30 - 3:30
Session 40: Manhole & Large Diameter Pipe Rehab Using GeoKrete	2:30 - 3:30
Session 41: PFAS Treatment Design From Small to Large Systems.....	2:30 - 3:30

VIRTUAL SCHEDULE

THURSDAY, FEBRUARY 10 (7:30 AM – 3:10 PM)

Session42: Lead & Copper Part 1 - Updates & Tracking (virtual).....	7:30 - 8:30
Session43: Lead & Copper Part 2 - Case Studies & Helpful Hints (virtual)	8:40 - 9:40
Session 44: Treatment with Peracetic Acid (virtual)	9:50 - 10:50
Session45: PFAS Removal by Point of User Filters (virtual).....	11:00 - 12:00
Session 46: Active Control of THM Levels (virtual)	1:00 - 2:00
Session 47: MPUC Terms & Conditions (virtual).....	2:10 -3:10

IN-PERSON RESOURCES



Conference Tracker - Check your emails for more information on Conference Tracker and the attendee app.

VIRTUAL RESOURCES (Zoom)



This year's show is a virtual show, which means you'll need to have *Zoom* in order to attend courses, meet with exhibitors and view product demos. Open a free account at <https://zoom.us/> and you'll be ready to go. Links will be sent prior to every course in order for you to attend.

WEDNESDAY, FEBRUARY 2, 2022

Opening Session: Public Advocate

Conference Welcome
MWUA, DWP and DEP

We would like to announce that our plans for the opening session for our 2022 Annual Conference have changed. We had originally planned to host the MeWEA legislative breakfast as our opening session on Wednesday morning of the conference.

The Maine Legislature recently decided to meet and conduct business virtually during January and possibly February. To accommodate a hybrid event at our in-person conference would be logistically difficult. Based on this turn of events we have decided to postpone the legislative event to later in the month of February as a stand-alone meeting. To replace the opening event, we have invited William Harwood ESQ. to be our welcoming speaker. He graciously accepted our invitation. Many of you know or are aware of who Bill Harwood is. He has been an active member of our drinking water profession and Verrill Law for over 40 years. He recently was appointed by Governor Mills to the Maine Energy Office as Senior Advisor and after a short time there was recently appointed by Governor Mills to the position of Public Advocate for the State of Maine. His confirmation hearing is scheduled for January 12th, 2022.

We look forward to working with Bill and the Maine Public Advocates Office in helping water utilities to be the best we possibly can be in serving the public and our rate payers.

WEDNESDAY, FEBRUARY 2, 2022

Session 1: DWP Lead & Copper Updates

Room 2	Course Instructor: DWP Staff
Time: 9:15 AM - 10:15 AM	Course Description:
TCH: 1 BLWSO	Join us as we explore recent lead & copper rule updates, revisions, and more that the DWP would like you to be aware of. Although we will spend the majority of the session covering new content to introduce, we will also review the basics and look forward to fielding any questions you may have!

Session 2: Hydrants, Hydrants and More!

Room 3	Course Instructor: Brett Johnson
Time: 9:15 AM - 10:15 AM	Course Description:
TCH: 1 BLWSO	Brett Johnson is back to cover all you need to know about hydrants, from proper maintenance, to installations, pressure monitoring, and more!

Session 3: Treatment with Peracetic Acid

Room 1	Course Instructor: Dave Finethy, Tom Warmuth
Time: 9:15 AM - 10:15 AM	Course Description:
TCH: 1 BLWSO, 1 DEP	Peracetic acid for treatment in water and wastewater scenarios will be explored with an emphasis on new opportunities and developments, as well as specific case studies to help provide context.

Session 4: Water Math - Part 1, “It’s As Easy As 3.14159…”

<p>Room 4</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Tom Bahun II</p> <p>Course Description:</p> <p>Water Math Part 1: Successful water math problem solving is not rocket science. However, success does hinge upon following basic rules, principles, and a systematic process. Join Tom as he details what you need to know to be successful with basic calculations as he demonstrates the importance of systematic problem-solving calculations.</p>
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Session 5: Mobile Workforce Automation: Paper to Paperless in Minutes with SOSMobile

<p>Room 2</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Susan Fischer</p> <p>Course Description:</p> <p>See how easily SOSMobile can transform your utility’s mobile operation by eliminating paperwork in the field. In this 30-minute demonstration we’ll show you how to load the software on to your own mobile device (optional) where you’ll see sample work orders that provide users with all the information necessary to complete work and collect all types of field data. This data can be used to run reports and/or update back-end systems, such as billing, inventory, payroll, work orders, asset management, GIS etc. You’ll also see the “view” from the office, including order creation, assignment and managing field resources with a map view. SOSMobile makes customizing the system for each utility so easy that you can literally be taking advantage of all mobile technology has to offer in minutes.</p>
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Session 6: PFAS Removal by Point of Use Filters? Don’t Stop Believin’ It Can Happen!

<p>Room 3</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Gregory Eldridge, Scott Miller</p> <p>Course Description:</p> <p>As many communities across the United States struggle with how to effectively reduce or remove PFAS from their water systems, Haley Ward engineers and technical professionals have assisted reducing PFAS from the end users’ water through a relevant study. Our presentation will cover the study’s goals, selection of the POU filter type, methods and sampling protocol, results, and summary that indicated that six of the seven filters that were tested to filter the water leaving the water treatment facility resulted in a reduction of PFAS6 levels to non-detect.</p>
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Session 7: Water Math - Part 2, “Ain’t Nuthin’ 2 It But 2 Do It.”

<p>Room 4</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Thom Bahun II</p> <p>Course Description:</p> <p>Water Math Part 2: Successful water math problem solving is not rocket science. However, success does hinge upon following basic rules, principles, and a systematic process. Join Tom as he details what you need to know to be successful with basic calculations as he demonstrates the importance of systematic problem-solving calculations.</p>
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Session 8: Water Stewardship & Long-Term Sustainable Source Management

<p>Room 1</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Matt Reynolds</p> <p>Course Description:</p> <p>Managing the long-term quality and quantity of water sources is one of the principal requirements of water utility management and trustees. Good stewardship involves factors that are within the direct control of the utility (e.g., water withdrawal rates and water treatment), but also involves factors that are influenced by natural conditions (e.g., drought, large storm events) and by other organizations (e.g., towns, businesses, watershed groups). Water stewardship identifies these multiple factors and helps utilities adopt policies and procedures internally and with important stakeholders in the source watershed to preserve water quantity and preserve or improve the long-term water quality.</p>
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Session 9: Assessing Your Wells

<p>Room 1</p> <p>Time: 1:15 PM – 2:15 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Aaron Martin, Thomas Neilson</p> <p>Course Description:</p> <p>During the course of operation, a well’s sustainable yield or efficiency may change and hydrogeologic conditions contributing to the capture zone for the well may also change. Additionally, pre-pumping data for the well may have been lost or not recorded. Ransom Consulting will present various methods on how to evaluate current hydrogeologic conditions for wells installed in unconsolidated soils (i.e., overburden) and fractured bedrock aquifers, and how potential changes to the overburden and/or fractured bedrock aquifer contributing to the well’s capture zone may affect a well’s sustainable yield or efficiency.</p>
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Session 10: Fall Protection

<p>Room 3</p> <p>Time: 1:15 PM – 2:15 PM</p> <p>TCH: 1 BLWSO, 1 DEP Safety</p>	<p>Course Instructor: Ray Lussier</p> <p>Course Description:</p> <p>Ray will cover the following topics meant to help water and wastewater operators work more safely and avoid falls: OSHA Standard for fall protection in the workplace, types of accidents, engineering control and equipment needs, and fall retrieval and rescue planning.</p>
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Session 11: So, You Think You Know the Safe Drinking Water Act?

<p>Room 4</p> <p>Time: 1:15 PM – 2:15 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Tom Bahun II</p> <p>Course Description:</p> <p>The EPA Safe Drinking Water Act provides the vital framework for the oversight of standards and quality to ensure our drinking water is safe. Join Tom, as your presenter and gameshow host, in a fun and interactive presentation that will allow participants to show-off their knowledge of the SDWA.</p>
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Session 12: Treating 1,4-Dioxane

<p>Room 2</p> <p>Time: 1:15 PM – 2:15 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Sam Kenney</p> <p>Course Description:</p> <p>Due to revised water quality standards the North Walpole Village District (NH) was required to incorporate a new treatment system to provide removal of the emerging contaminant 1,4-dioxane from its public water supply. The treatment approach was chosen following a review of five commercially available treatment systems. Project funding from NHDES SRF, Drinking Water and Groundwater Trust Fund, and USDA ECWAG provided financial relief to assist the district with implementation of the first municipal drinking water 1,4-dioxane treatment system in the state of New Hampshire.</p>
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Session 13: Active Control of THM Levels in Drinking Water Distribution Systems

<p>Room 2</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Tom Caulfield</p> <p>Course Description:</p> <p>Elevated trihalomethane (THM) levels are among the most common violations of the Stage 2 DBP Rule in the United States. Systems that employ raw water with high levels of organics, utilize free-chlorine as a network residual, and endure warm water temperatures, will typically experience difficulties with THMs. Active tank mixing, in-tank aeration, and head-space ventilation systems are three tools that, through thoughtful combination, can yield meaningful reductions in distribution system THM levels. These technologies make water storage tanks a smart and active agent in the management and improvement of water quality instead of a passive vessel holding water of uncertain quality.</p>
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Session 14: Confined Space

<p>Room 3</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO, 1 DEP Safety</p>	<p>Course Instructor: Scott Luciano</p> <p>Course Description:</p> <p>We will start by reviewing the highlights of a confined space entry program, move onto hazard identification and control, and explore confined space job duties: entry supervisor, attendant, and authorized entrant. We will also cover utilizing entry permits, air monitoring, and ventilation equipment, as well as entry equipment uses and limitations.</p>
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Session 15: HydroGeo - Understanding the Health of Your Groundwater Well

<p>Room 1</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Greg Smith</p> <p>Course Description:</p> <p>Maintaining a sustainable well supply is often overlooked and undervalued and can result in significantly higher operating and maintenance costs over time. During this presentation, principles of groundwater flow to a well, causes for decline in well performance, how to analyze performance data and methods available to regain lost yield and the application of various maintenance and rehabilitation technologies will be discussed. The goal of this training is for operators of public supply wells to maximize the life of a groundwater well source providing long-term costs savings through maintenance and good record keeping.</p>
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Session 16: MWUA's Projects Rollout

<p>Room 4</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO, 1 DEP Mgmt.</p>	<p>Course Instructor: Thomas Bahun II</p> <p>Course Description:</p> <p>Join us as we introduce many projects MWUA is currently working on and will release soon. These include projects funded by the Maine Drinking Water Program and others. We will explore what tools, resources, and guides we've developed for your use, where to find them, and how to use them - from emergency planning to formulas and calculators to trustee guides and more.</p>
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FEBRUARY 2, 2022 – VIRTUAL DEMOS

Use link provided to visit Presenter's Booth and view demos
(Space Limited to First 10 Registrants)

Asphalt Repair in Wet & Cold Conditions by Aquaphalt 2/2/2022 / Time: 9:15 AM – 9:45 AM

Product demonstration using a water activated petroleum free permeant asphalt and concrete patch. Explaining the difference between typical patch and water activated patch - showing how using the right product for specific situations can save money.

Technology Advancements on Hydrants w/ the iHydrant by Clow Valve 2/2/2022 / Time: 10:30 AM – 11:00 AM

Case studies of the benefits of full-time pressure monitoring with utilities across New England.

Pipe Repair Fitting Selection Training and Versa Coupling Installation by Hymax a Mueller Brand 2/2/2022 / Time: 1:15 PM – 1:45 PM

We will be going over the latest pipe repair fittings for the water and wastewater industries. We will explain product selection for different field situations with small to large diameter fittings, restrained fittings, transition couplings, clamps, dismantling joints and other fittings. There will be a focus on corrosion resistance being a priority with all components associated with any infrastructure. Then finish with the installation demonstration of our Versa Coupling being something most have not seen previously, very versatile, therefore great in smaller system budgets and the instructions are very analogous to the entire line.

Paper to Paperless in Minutes with SOSMobile by InsightAtlas, LLC

2/2/2022 / Time: 2:30 PM – 3:00 PM

See how easily SOSMobile can transform your utility's mobile operation by eliminating paperwork in the field. In this 30-minute demonstration we'll show you how to load the software on to your own mobile device (optional) where you'll see sample work orders that provide users with all the information necessary to complete work and collect all types of field data. This data can be used to run reports and/or update back-end systems, such as billing, inventory, payroll, work orders, asset management, GIS etc.

You'll also see the "view" from the office, including order creation, assignment and managing field resources with a map view. SOSMobile makes customizing the system for each utility so easy – no technical resources necessary – that you can literally be taking advantage of all mobile technology has to offer in minutes.

THURSDAY, FEBRUARY 3, 2022

Session 17: An Update on PFAS & Developments in ME & NE

<p>Room 5</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Jeff McBurnie</p> <p>Course Description:</p> <p>This is a review of current legislative and regulatory activity related to the control of PFAS in water, wastewater, and biosolids. It will focus primarily on actions in Maine, but will also present information on some of the more impactful rules and laws being implemented or proposed in the region (New England/North Atlantic) and nationally. It will also cover how our state, regional, and national trade groups are responding to new or potential rules & laws.</p>
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Session 18: Facing the Challenges of Providing Licensed Operational Services

<p>Room 4</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Kathy Rodgers</p> <p>Course Description:</p> <p>The Maine Center for Disease Control and Prevention, Division of Environmental and Community Health, Drinking Water Program (DWP) desired to develop a better understanding of the factors impacting a licensed water operator's ability to take necessary action at their assigned public water system. Through the Maine State Revolving Fund Set Aside Program, RCAP Solutions, Inc. was contracted to conduct an evaluation to better understand how to support and improve the licensed drinking water environment. The discussion will describe the recommendations developed to improve the licensed operators' ability to manage the water quality and water quantity of a small water system.</p>
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Session 19: Let's Lock It Down - Cybersecurity for Water & Wastewater

<p>Room 3</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Thomas Bahun III</p> <p>Course Description:</p> <p>Cyber security is a necessary part of the job today, whether we'd like it to be or not. Although we're not all cyber experts, we all have a stake in the game and can learn how to better protect the critical assets in water and wastewater systems. In this session, we will explore the methods on how to 'lock it down' and secure your cyber assets. Starting with general principles of cyber security, we will move into how water and wastewater assets fit into that mix. Then, threats, hazards, and mitigation strategies will be covered. Don't forget to bring your questions for a robust Q&A at the end.</p>
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Session 20: WP Case Study - Kennebec River Intake and Pump Station Skowhegan, Maine

<p>Room 1</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Darrin Lary, Jonathan Earle</p> <p>Course Description:</p> <p>The presentation will be a case study of the design and construction of a new Kennebec River intake and pump station to supply the Maine Water Company Skowhegan Division water treatment facility with a reliable and fully redundant source of supply for the users of the water system. Topics will include the background of the Skowhegan supply source and need for the river supply, historic problems with the old intake and pump station, and design criteria for the new facilities. Expedited winter construction requirements and permitting experience will also be touched upon when focusing on lessons learned.</p>
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Session 21: Xylem Digital Solutions

<p>Room 2</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Richard Loeffler</p> <p>Course Description:</p> <p>A combination of aging infrastructure, public health crises, and updated legislation have led to an increased interest in both water utility professionals and consumers as to the material of the service lines to the end user. The Lead and Copper Rule has been updated to require utilities to compile an inventory of all service lines in the distribution system and generate a replacement plan to remove LSLs where they exist. As records of service line materials are often undigitized, incomplete, and difficult to obtain on a system-wide scale, utilities are looking for tools to fill that gap. By leveraging partial records of service line materials already compiled by the utility, machine learning (ML) methods allow us to estimate the likelihood of lead for each of the other service lines whose status is unknown.</p>
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Session 22: Cybersecurity - Case Studies & the Regulator's Perspective

<p>Room 3</p> <p>Time: 9:15 AM – 10:15 PM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Susan Breau, Daisy Mueller, Thomas Bahun III</p> <p>Course Description:</p> <p>In a follow up session to Tom Bahun's cyber presentation, this session will cover a number of specific cyber incidents and case studies here in Maine, their impacts, and resolutions. We will explore further rules, regulations and content the regulators would like you to have on your radar.</p>
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Session 23: Evaluating Workflows & Software Platforms in the Water World

<p>Room 4</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>TCH: 1 BLWSO, 1 DEP Mgmt.</p>	<p>Course Instructor: Drue Hontz, Ann Marie Ronan</p> <p>Course Description:</p> <p>How to evaluate and select the best software platform(s) to fit your Utility's operational needs. Look beyond the sales pitches and let's look at the details and nuances of exactly what your Utility requires. To do this, you should have a holistic view, rather than a siloed view, of the operational workflows and the specific interconnections of every department that might have contact with the system.</p>
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Session 24: Polymer "An Owners' Manual"

<p>Room 5</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Ryan Peebles</p> <p>Course Description:</p> <p>Ryan will cover many aspects of Polymer including optimization, handling, and safety. If you are looking to learn more about polymer – this session is for you!</p>
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Session 25: Using Dashboards to Leverage GIS Data

<p>Room 2</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Brendon Joyce, Greg Jalbert</p> <p>Course Description:</p> <p>The use of the EPANet Multi-Species Extension software to model disinfection byproducts and chlorine in large water distribution systems with multiple sources will be discussed. The presentation will include examples and discussion of challenges encountered, results, and lessons learned.</p>
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Session 26: WP Case Study - Bath Water District Treatment Facility Upgrades

<p>Room 1</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Daniel Flaig</p> <p>Course Description:</p> <p>The presentation will provide a brief historical overview of the upflow clarification and multimedia filtration process that was implemented with the 1992 treatment plant upgrade. This will be followed by a discussion of the scope, planning, and implementation of treatment facility upgrades from 2010 to the present that focus on retainment of the existing treatment unit processes with raw water infrastructure redundancy to improve operational efficiency, treatment performance, modernize technology, and facility resiliency. The discussion will include a summary of various design/construction constraints, project delivery approach, and construction sequencing and coordination to maintain treatment facility operations.</p>
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Session 27: DWP PFAS Update & Sampling

<p>Room 1</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: DWP Staff</p> <p>Course Description:</p> <p>DWP will cover a variety of PFAS updates and content to keep you up-to-date and informed, as well as help you remain in compliance, if necessary, with rules/regulations coming down the pipes soon.</p>
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Session 28: Getting the Most Out of Your Water System Model

<p>Room 2</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Heather Doolittle</p> <p>Course Description:</p> <p>Hydraulic models of water distribution systems can provide benefits beyond the common hydraulic evaluations performed for asset management and capital improvement planning. Examples of less common applications for hydraulic models include: modifications to system operation, storage analysis, new service evaluations for large developments, and critical facility failures/outages. This session will step through the basic requirements for providing these types of model evaluations and present several case studies where hydraulic models were used to aid decision making for both routine planning and emergency response.</p>
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Session 29: MPUC Terms and Conditions

<p>Room 4</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Stephani Morancie</p> <p>Course Description:</p> <p>Thinking about your terms and conditions? Maybe you want to update or file new terms and conditions, or maybe you simply want to learn more about the basics in Maine. If so, this is the perfect class for you whether you are new to the industry or an experienced professional. There is always something new to learn. We will overview the basics, common terms and conditions, and how to modify and file new terms and conditions.</p>
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Session 30: SCADA Cybersecurity

<p>Room 3</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Mike Begin</p> <p>Course Description:</p> <p>Perhaps the most discussed, but least understood portion of cybersecurity deals with SCADA systems. This is because implementing security for SCADA can often seem overwhelming and dark/mysterious. But it doesn't have to be that way! In this presentation, we will break it down for you and explore how you can take back a number of specific examples to help lock down your SCADA system for water and wastewater. Don't forget your questions!</p>
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Session 31: Wipes - Progress on Legislation, Marketing and Education

Room 5

Time: 10:30 AM – 11:30 AM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Aubrey Strause

Course Description:

Aubrey will provide an update on two categories of consumer wipes: 1) wipes marketed as flushable, and 2) other types of wipes (like baby, surface, hand, facial, etc). For both product categories, she'll share how the products themselves have changed in 10 years, how packaging and marketing for each category are improving, recent legislation around the country (good and bad), whether consumer behavior has improved, and where there's plenty of room for improvement.

Session 32: Carbon 101: Use of Granular Activated Carbon for Water Treatment

Room 1

Time: 1:15 PM – 2:15 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Adam Redding

Course Description:

Participants in this session will learn how granular activated carbon (GAC) systems are evaluated and sized for removing organic contaminants during drinking water treatment. Specifically, best practices for bench and pilot testing will be covered, along with understanding GAC specifications and tests methods. The session will conclude with best practices for operating GAC beds/pressure vessels while optimizing and monitoring performance.

Session 33: Changing Technology for GIS

Room 2

Time: 1:15 PM – 2:15 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Andrew Falkner

Course Description:

Join us as we explore GIS updates, the changing landscape and tools available to help you do your job more efficiently. New rules and regulations will be considered and how these new tools can help make the process easier.

Session 34: Funding Resources - Panel Discussion

Room 4

Time: 1:15 PM – 2:15 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Kathy Rodgers, Terry Ann Holden, Bob Nadeau

Course Description:

Join us for a robust panel discussion about new and old funding resources that are available to you for water and wastewater needs. Emphasis will be placed on newly released options and resources to fund projects and needs throughout Maine. Don't forget to bring you questions!

Session 35: Looking Past COVID-19 - Lessons Learned Here in Maine - Part 1

Room 3

Time: 1:15 PM – 2:15 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Thomas Bahun III, Thomas Bahun II

Course Description:

This session will focus on some of the more significant lessons learned so far from the COVID-19 pandemic and their impacts on our industry here in Maine. We will explore the key financial, operations/maintenance, health/safety, and regulatory takeaways, as well as important suggestions for improvement and resiliency. Highlighting real-world experiences and situations, this session is designed to help you be better prepared for pandemics.

Session 36: Maintenance & Equipment Reliability

Room 5

Time: 1:15 PM – 2:15 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Richard Yanavich

Course Description:

This training focuses on mechanical basics, failure fundamentals and the role of machinery adhesives in equipment reliability to assist you on your journey towards total reliability.

Session 37: Lead & Copper Compliance

<p>Room 2</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Lowell Huffman</p> <p>Course Description:</p> <p>120Water has recently partnered with MWUA and is here to help you through your lead and copper compliance needs, from rule updates, to recent advances, and more.</p>
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Session 38: Long Term Financial Planning – The Key to Managing Rate Impacts

<p>Room 4</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Mike Shrader</p> <p>Course Description:</p> <p>Many public water systems are in need of significant capital investment. Compounding the issue is the increasing need for treatment due to PFAS, as well as Iron and Manganese. This session will discuss how a long term financial plan will help utilities plan for future investments, project future rate increases as well as incorporate the Infrastructure Investment and Jobs Act funding into your long term plan and prepare for your next rate hearing.</p>
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Session 39: Looking Past COVID-19 - Lessons Learned Here in Maine - Part 2

<p>Room 3</p> <p>Time: 2:30 PM – 3:30 PM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Thomas Bahun III, Thomas Bahun II</p> <p>Course Description:</p> <p>This session will focus on some of the more significant lessons learned so far from the COVID-19 pandemic and their impacts on our industry here in New England. We will explore the key financial, operations/maintenance, health/safety, and regulatory takeaways as well as important suggestions for improvement and resiliency. Highlighting real-world experiences and situations, this session is designed to help you be better prepared for pandemics.</p>
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Session 40: Manhole & Large Diameter Pipe Rehab Using GeoKrete

Room 5

Time: 2:30 PM – 3:30 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: Travis Jones

Course Description:

The class will introduce the attendees to GeoKrete as a method to structurally rehabilitating assets in an efficient & cost-effective manner. We'll cover what makes up a Geopolymer, the advantages to traditional cement & epoxy coatings, and finish with some case studies.

Session 41: PFAS Treatment Design From Small to Large Systems

Room 1

Time: 2:30 PM – 3:30 PM

TCH: 1 BLWSO, 1 DEP

Course Instructor: James Collins

Course Description:

PFASs are slow to break down, making them persistent environmental contaminants. PFAS sampling is required in many New England states and many utilities are finding PFAS concentrations above the regulatory limits. Treatment technologies are similar between small and large systems but implementation challenges can vary depending on the system size. PFAS treatment implementation presents unique challenges during design, bench-scale testing, construction, and operations. This presentation will discuss how these challenges impact small and large systems and will present case studies for a range of project sizes from 1MGD.

THURSDAY, FEBRUARY 10, 2022 (VIRTUAL)

Session 42: Lead & Copper Part 1 - Updates & Tracking (virtual)

Virtual Course

Time: 7:30 AM – 8:30 AM

TCH: 1 BLWSO

Course Instructor: Lowell Huffman

Course Description:

120Water has recently partnered with MWUA and is here to help you through your lead and copper compliance needs, from rule updates to recent advances, and more.

Session 43: Lead & Copper Part 2 - Case Studies & Helpful Hints (virtual)

Virtual Course

Time: 8:40 AM – 9:40 AM

TCH: 1 BLWSO

Course Instructor: Sandra Kutzing

Course Description:

We are always searching for ways to proactively monitor our system while improving resiliency. This presentation will give a high-level overview of drinking water systems, including the basics of hydraulics and pressure, and an explanation of new technologies being developed. We will explore how to easily install and use remote pressure monitoring to identify hydraulic anomalies and events while reducing water loss and repair response time. A discussion on utilizing technology for the development of the EPA Emergency Response Plan and Risk and Resiliency Assessment will be introduced, followed by what resources, funding opportunities and more is currently available.

Session 45: PFAS Removal by Point of User Filters (virtual)

<p>Virtual Course</p> <p>Time: 11:00 AM – 12:00 PM</p> <p>TCH: 1 BLWSO, 1 DEP</p>	<p>Course Instructor: Gregory Eldridge, Scott Miller</p> <p>Course Description:</p> <p>As many communities across the United States struggle with how to effectively reduce or remove PFAS from their water systems, Haley Ward engineers and technical professionals have assisted reducing PFAS from the end users' water through a relevant study. Our presentation will cover the study's goals, selection of the POU filter type, methods and sampling protocol, results, and summary that indicated that six of the seven filters that were tested to filter the water leaving the water treatment facility resulted in a reduction of PFAS6 levels to non-detect.</p>
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Session 46: Active Control of THM Levels (virtual)

<p>Virtual Course</p> <p>Time: 1:00 PM – 2:00 PM</p> <p>TCH: 1 BLWSO</p>	<p>Course Instructor: Tom Caulfield</p> <p>Course Description:</p> <p>Elevated trihalomethane (THM) levels are among the most common violations of the Stage 2 DBP Rule in the United States. Systems that employ raw water with high levels of organics, utilize free-chlorine as a network residual and endure warm water temperatures will typically experience difficulties with THMs. Active tank mixing, in-tank aeration, and head-space ventilation systems are three tools that through thoughtful combination, can yield meaningful reductions in distribution system THM levels. These technologies make water storage tanks a smart and active agent in the management and improvement of water quality instead of a passive vessel holding water of uncertain quality.</p>
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Session 47: MPUC Terms & Conditions (virtual)

Virtual Course

Time: 2:10 PM – 3:10 PM

TCH: 1 BLWSO

Course Instructor: Stephani Morancie

Course Description:

Thinking about your terms and conditions? Maybe you want to update or file new terms and conditions, or maybe you simply want to learn more about the basics in Maine. If so, this is the perfect class for you whether you are new to the industry or an experienced professional. There is always something new to learn. We will overview the basics, common terms and conditions, and how to modify and file new terms and conditions.