



MAINE WATER UTILITIES ASSOCIATION
MWUA
OUR WATER. YOUR FUTURE.

97TH ANNUAL **CONFERENCE**

AND TRADE SHOW



FEBRUARY 1-2, 2023

IN-PERSON CONFERENCE



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





Thanks for joining us!

MAINE WATER UTILITIES ASSOCIATION welcomes you to our 97th 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.

TRACK LEGEND

To easily identify the tracks for each course, we have color-coded them according to the legend below.

	New to the Industry
	MeWEA
	Source & Treatment
	Administrative & Management
	Emergency Prep & Safety
	Distribution and Storage



CONFERENCE SCHEDULE

WEDNESDAY, FEBRUARY 1 (Trade Show 7:30 AM - 3:45 PM)

Professional and Technical Sessions

7:00 AM Registration

Breakfast and Opening Session 1: Climate Change

7:30 - 8:30 AM

Product Demos

9:15 - 3:45 PM

Session 2: From Paper to Digital: Automating Data Processes with ArcGIS and Integromat.....	9:15 - 10:15
Session 3: Emergency PFAS Treatment in 12 weeks, Can it be Done?.....	9:15 - 10:15
Session 4: Lead Service Line Inventory: DWP Regulatory Update.....	9:15 - 10:15
Session 5: So, You Think You Know Water Distribution Systems?.....	9:15 - 10:15
Session 6: Leading People and Managing Assets for a Sustainable Future.....	10:30 - 11:30
Session 7: PFAS Destruction.....	10:30 - 11:30
Session 8: Achieving Lead & Copper Rule Revision Compliance with Confidence.....	10:30 - 11:30
Session 9: Maine DWP & DEP Funding.....	10:30 - 11:30
BUSINESS LUNCH / AWARDS / EXHIBIT TIME.....	11:30 - 1:30
Session 10: From Busy to Burnout, and Back.....	1:30 - 2:30
Session 11: PFAS Regulatory Update.....	1:30 - 2:30
Session 12: Merging Metering and Leak Detection Data into GIS.....	1:30 - 2:30
Session 13: Hot & Cold Part 1: Hot Weather Safety.....	1:30 - 2:30
Session 14: Rethinking Reorganization.....	2:45 - 3:45
Session 15: Plant SCADA Automation –The First Fully Automated Water Treatment Plant in MA.....	2:45 - 3:45
Session 16: Leveraging GIS for the Lead Service Line Inventory.....	2:45 - 3:45
Session 17: Hot & Cold Part 2: Cold Weather Safety.....	2:30 - 3:30
HAPPY HOUR / RECEPTION.....	3:30 – 6:00

THURSDAY, FEBRUARY 2 (Trade Show 8:00 AM - 3:00 PM)

Session 18: Asset Management & Rate Setting.....	8:00 - 9:00
Session 19: Groundwater Exploration and Public Supply Wells: Part 1.....	8:00 - 9:00
Session 20: Drones: UAS Basics & Beyond.....	8:00 - 9:00
Session 21: Cyber Security Best Practices & Support.....	8:00 - 9:00
Session 22: COVID-19 in Wastewater: What the Samples are Saying.....	8:00 - 9:00
Session 23: Biz Continuity, Succession Planning & Emergency Response.....	9:15 - 10:15
Session 24: Groundwater Exploration and Public Supply Wells: Part 2.....	9:15 - 10:15
Session 25: Using Water Quality Models to Identify Low Chlorine Residual in Distribution Systems.....	9:15 - 10:15
Session 26: Plain Old Telephone Service (POTS) Line Replacement.....	9:15 - 10:15

Session 27: Erosion Control & Sedimentation.....	9:15 -10:15
Session 28: Upcoming Technology for Utilities.....	10:30 -11:30
Session 29: Using a Surveillance Program as an Important Tool to Optimize Filtration Performance.....	10:30 -11:30
Session 30: Forestry & Protecting Watersheds.....	10:30 -11:30
Session 31: The History of Water Regulation.....	10:30 -11:30
Session 32: Biosolids Master Planning.....	10:30 -11:30
LUNCH / EXHIBITOR TIME.....	11:30 -12:45
Session 33: Maine PUC Terms & Conditions.....	12:45 – 1:45
Session 34: Erosion in KKW's Watershed: A CMP Case Study.....	12:45 – 1:45
Session 35: Steel Water Storage Tank Maintenance.....	12:45 – 1:45
Session 36: Water 101 with Benny and Kevin.....	12:45 – 1:45
Session 37: Workforce Development Through Your Local School System & NEWEA's Veteran Workforce Development Program.....	12:45 – 1:45
Session 38: Customer Service & Billing Roundtable.....	2:00 – 3:00
Session 39: DBP Management: Choosing One Path from Many to Balance Compliance & Resilience....	2:00 – 3:00
Session 40: South Paris, ME - Hooper Ledge Prestressed Concrete Water Storage Tank: Case Study...	2:00 – 3:00
Session 41: Water 102 with Benny and Kevin.....	2:00 – 3:00
Session 42: Wastewater Operator Hacks: Tips & Real Life Sacks to Simplify Your Work Life.....	2:00 – 3:00

CONFERENCE RESOURCES ---



Conference Tracker - Check your emails for more information on Conference Tracker and the attendee app. You can also follow the instructions on the next page to download.



Attendee Quick Start Guide

Conference Tracker Attendee App Layout

Navigation Bar
This will show all of your conference's available pages

Homepage
The Home Screen houses all of the important shortcuts pertaining to your event

Refresh App
Swipe down from the home page to refresh the application

Social Wall
Visit the main social feed of your conference and share posts

Surveys & Polls
View all posted surveys and polls

Announcements
View important announcements

Self Sign-In
Use your phone to sign in to your sessions

Profile
Edit your profile information and add a profile photo

Badge
Here you will see the options that attendees on the app can see

Sessions
View all of your conferences sessions and attend online presentations

Exhibitors
Shows all of the exhibiting vendors at your conference.

Appointments
Here, you can view, create and reschedule appointments

First Time Setup

1. You will be asked to log into your account. Enter the e-mail you used to register for the conference.
2. After the system finds your account, you will be asked to input your password.
3. Once entered, you will be given access to the Attendee app and all of its features.

Resetting Password

If you don't know your password, there is a password reset link on the Enter Password screen. Follow this simple process to set up a new password for your account.

WEDNESDAY, FEBRUARY 2, 2022

Session 1: Climate Change

Tradeshow Room Floor

Time: 7:30 AM - 8:30 AM

Course Instructor: Hannah Pingree

Course Description:

In June 2019, Governor Janet Mills signed LD 1679 into law, with strong support from the Maine Legislature, to create the Maine Climate Council. The Council — an assembly of scientists, industry leaders, bipartisan local and state officials, and engaged citizens — was charged with developing this four-year Climate Action Plan to put Maine on a trajectory to decrease greenhouse gas emissions by 45% by 2030 and 80% by 2050, and achieve carbon neutrality by 2045.

The Council and six working groups and a subcommittee — totaling more than 200 Maine people with a diverse set of experiences and backgrounds — began this work. This four-year Climate Action Plan, Maine Won't Wait, is the consensus result of those months of painstaking study, dialogue, discussion, and public deliberation to determine the steps Maine must take to combat climate change. Join Hannah Pingree, Director of the Governor's Office of Policy Innovation and the Future, and MWUA as we enjoy breakfast and learn about Hannah's work and this Climate Action Plan.

Session 2: From Paper to Digital: Automating Data Processes with ArcGIS and Integromat

Room: Arnold

Time: 9:15 AM - 10:15 AM

Track: Administrative & Mgmt.

Moderators

Primary: Justin Richardson

Secondary: Amanda Keyes

Course Instructor: Bradford Folta

Course Description:

Join us as we explore ArcGIS and Integromat as a tool to turn what was once manual into digital. This will not only save your utility time, but it will happen in the background making your life easier. This will include automating new accounts, account changes, notifications, and much more.

Session 3: Emergency PFAS Treatment in 12 weeks, Can it be Done?

<p>Room: Fort Western</p> <p>Time: 9:15 AM - 10:15 AM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Darrin Lary</p> <p>Secondary: Mike Cummons</p>	<p>Course Instructor: Dillon Dougherty and Darrin Lary</p> <p>Course Description:</p> <p>The Fryeburg Water Company tested their sources for PFAS as required by the MEDWP. One of the sources tested above the interim total standard for PFAS. The well was immediately removed from service and steps initiated to install a temporary PFAS treatment system to allow use of the source before the anticipated high use period during the local agricultural fair. A collaborative team was assembled, including the MEDWP, to design, install, and commission a PFAS removal vessel before the deadline. This presentation will detail the steps taken to install the emergency treatment system in less than 12 weeks.</p>
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Session 4: Lead Service Line Inventory: DWP Regulatory Update

<p>Room: Kennebec</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Benny LaPlante</p> <p>Secondary: John Cummons</p>	<p>Course Instructor: Amy LaChance</p> <p>Course Description:</p> <p>A discussion of federal requirements under the Lead and Copper Rule Revisions related to Service Line Inventories and associated State regulatory direction, including relevant templates and guidance. Join Amy LaChance, the Maine Drinking Water Program Manager, to learn about the latest updates and what is or will be expected of utilities going forward. This information-filled session is surely one you won't want to miss. Be sure to bring your questions!</p>
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Session 5: So, You Think You Know Water Distribution Systems?

<p>Room: Penobscot</p> <p>Time: 9:15 AM – 10:15 AM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Chris Curtis</p> <p>Secondary: Dan Burdin</p>	<p>Course Instructor: Thomas Bahun, II</p> <p>Course Description:</p> <p>Water distribution systems are designed and operated to supply sufficient volumes of water at adequate pressure as well as to maintain the quality of potable water provided by the water treatment plant. 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 water distribution systems. A special note to those preparing for their water distribution certification exams: You are guaranteed to find this session an extremely beneficial review of water distribution concepts, terminology, operation, and maintenance.</p>
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Session 6: Leading People and Managing Assets for a Sustainable Future

<p>Room: Arnold</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Peter Goodwin</p> <p>Secondary: Benny LaPlante</p>	<p>Course Instructor: Jim Courchain</p> <p>Course Description:</p> <p>This presentation addresses the generational differences of the current five working groups; Matures, Boomers, Xers, Yers and Millennials and the newly named 6th group, the Plurals. I discuss what each group will do, won't do, will accept, won't accept, likes and dislikes, etc. The reason this topic is so important to our industry is because of the disconnect between the generations. We don't do a good job as an industry in communicating in general with each other. It's imperative we begin a dialogue with each other. If not, we risk a devastating setback in the way we conduct business in the future at all levels within a utility.</p> <p>Regardless of the discipline (work practice) in any utility, you must get the people part of asset management right before you can address managing, operating and maintaining physical assets. The people piece means, leaders must make a concerted effort to help staff be accountable.</p> <p>In this presentation, you will learn the need for bridging the gap between the five generations that may be working in the same utility but have very different goals and objectives. You will understand the importance of why different generations (matures, boomers, Xers, Yers, Millennials and Plurals) behave the way they do, what they do and don't like, what we can learn from each other and the risk and consequence of not taking action to address this existing phenomenon. In addition, the myth about leading and managing will be exposed, in that; they are not one in the same. At the same time, you will begin to believe why staff you work with and manage are our greatest asset.</p> <p>If we don't begin to address generational differences and the way we communicate, the environmental industry and utilities will struggle to achieve their utility's goals and objectives.</p>
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Session 7: PFAS Destruction

Room: Fort Western

Time: 10:30 AM – 11:30 AM

Track: Source & Treatment

Moderators

Primary: Chris Curtis

Secondary: Amanda Keyes

Course Instructor: Onur Apul

Course Description:

This session will discuss how to investigate and choose methods for eliminating per- and polyfluoroalkyl substances (PFAS). Onur Apul brings his research on utilizing spent granular activated carbon (GAC). Included in this session will be discussion on the disposal and related environmental concerns of "used up" GACs. Join us to learn detailed information on PFAS destruction processes.

Session 8: Achieving Lead & Copper Rule Revision Compliance with Confidence

Room: Kennebec

Time: 10:30 AM – 11:30 AM

Track: Distribution & Storage

Moderators

Primary: Justin Richardson

Secondary: John Commons

Course Instructor: Lowell Huffman

Course Description:

Complying with the Lead and Copper Rule Revisions (LCRR) can be one of the most complex and time consuming of the Smart Water Drinking Act rules. The good news is resources and technology are available to ensure your system can confidently and effectively develop a successful LCRR program.

In this presentation, utility leaders will walk away with a general understanding of what the new rule will require and the day-to-day impact to their team. 120Water will also provide valuable tools and resources decision makers can use to maneuver the complexities of the LCRR and ensure program success.

Session 9: Maine DWP & DEP Funding

<p>Room: Penobscot</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Mike Cummons</p> <p>Secondary: Dan Burdin</p>	<p>Course Instructor: Bill Dawson and Brandy Piers</p> <p>Course Description:</p> <p>Join the Maine DWP and Maine DEP to learn about past, current, and future funding opportunities for organizations around Maine. Bill Dawson from the Maine DWP will discuss funding for drinking water, while Brandy Piers from the Maine DEP will discuss funding for wastewater. Don't miss out on this session covering all of the important information that utilities need to know when searching and applying for project funding.</p>
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Session 10: From Busy to Burnout, and Back

<p>Room: Arnold</p> <p>Time: 1:30 PM – 2:30 PM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Benny LaPlante</p> <p>Secondary: Peter Goodwin</p>	<p>Course Instructor: Abby DiPasquale</p> <p>Course Description:</p> <p>In our current unpredictable environment, life and workplace stress is a very real concern for everyone. Join Abby to learn how changing the view of your work and your life can leave you feeling more focused, productive, and empowered. Participants will also get a bonus look at how Mental Health First Aid can equip you to address mental health and substance use challenges at your workplace.</p>
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Session 11: PFAS Regulatory Update

<p>Room: Fort Western</p> <p>Time: 1:30 PM – 2:30 PM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Chris Curtis</p> <p>Secondary: Darrin Levy</p>	<p>Course Instructor: Brian Kavanah and Susanne Miller</p> <p>Course Description:</p> <p>Join the Brian and Susanne from the Maine Department of Environmental Protection, and MWUA as we dive into the latest and most pertinent updates relating to PFAS for W/WW. In addition to updates, learn how all of this is affecting Maine and its water and wastewater utilities. With these forever chemicals "never" going away, this is surely a session you won't want to miss!</p>
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Session 12: Merging Metering and Leak Detection Data into GIS

<p>Room: Kennebec</p> <p>Time: 1:30 PM – 2:30 PM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Justin Richardson</p> <p>Secondary: Amanda Keyes</p>	<p>Course Instructor: Dan Burdin and Nick Bates</p> <p>Course Description:</p> <p>Dan Burdin and Nick Bates from EJP will explore how we can utilize meter reads, alarms, and data in GIS to help utilities make decisions. We look at how EJP is using ESRI and other products to display dashboards and create work orders-based information from metering and leak detection data. Learn more about the latest and greatest metering and leak detection technologies and their benefits from the pros who use them all of the time!</p>
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Session 13: Hot & Cold Part 1: Hot Weather Safety

<p>Room: Penobscot</p> <p>Time: 1:30 PM – 2:30 PM</p> <p>Track: Emergency Prep & Safety</p> <p><u>Moderators</u></p> <p>Primary: John Cummons</p> <p>Secondary: Mike Cummons</p>	<p>Course Instructor: Jacob Heide</p> <p>Course Description:</p> <p>In 2022, OSHA implemented a National Emphasis Program for heat awareness. OSHA will proactively initiate inspections over 70 high-risk industries in indoor and outdoor work settings when the National Weather Service has issued a heat warning or advisory for a local area. The purpose is to reduce illness and fatalities related to heat inside and outside the workplace.</p> <p>The learning outcomes include: Recognizing heat hazards, Screening for heat hazards: generally as well as per OSHA-practices using a WBGT and methods to control heat hazards in the workplace</p>
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Session 14: Rethinking Reorganization

<p>Room: Arnold</p> <p>Time: 2:45 PM – 3:45 PM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: John Cummons</p> <p>Secondary: Justin Richardson</p>	<p>Course Instructor: Rob Pontau</p> <p>Course Description:</p> <p>On the last day of 2021, both the General Manager and Collection and Pumping Division Supervisor, with a combined 67 years of experience, retired from the Brunswick Sewer District (BSD). That's 11% of the workforce, and 40% of the management team that left on the same day. With current economic conditions and lack of candidates on the job market, the BSD had to find creative ways to fill the void. A district wide reorganization was the answer. In this session you will learn how the BSD coped with the loss of experience and staff and overcame the challenge while saving more than \$250,000 and 5% of the budget per year.</p>
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Session 15: Plant SCADA Automation – Implementing the First Fully Automated Water Treatment Plant in Massachusetts

<p>Room: Fort Western</p> <p>Time: 2:45 PM – 3:45 PM</p> <p>Track: Treatment & Management</p> <p><u>Moderators</u></p> <p>Primary: Amanda Keyes</p> <p>Secondary: Chris Curtis</p>	<p>Course Instructor: Stephen Rafferty</p> <p>Course Description:</p> <p>Since 1898 Falmouth Massachusetts' relied upon unfiltered water from Long Pond as their primary source of drinking water. In 2014 they committed to piloting, designing and constructing a treatment plant that would be a model of treatment and operation. One of the primary challenges faced by the Town and the design team was the extreme seasonal nature of demand. Peak summer days typically require five times more water into the system than typical winter days. To balance the need for water and to properly staff the plant a decision was made to invest in full automation. The goal was for the plant to only need to be staffed for a single 8 hour shift daily while still being able to run 24/7 for up to five months of the year. To achieve this the SCADA system needed to be configured as a virtual network, with complete redundancy at every level of the system. The project was a success with the plant becoming the first fully automated plant in Massachusetts. It has had 6 years of uninterrupted operation.</p>
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Session 16: Leveraging GIS for the Lead Service Line Inventory

<p>Room: Kennebec</p> <p>Time: 2:45 PM – 3:45 PM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Justin Richardson</p> <p>Secondary: Mike Cummons</p>	<p>Course Instructor: Brendon Joyce</p> <p>Course Description:</p> <p>The Lead Service Line Inventory reports are fast approaching and utilities need to have a platform to enter and store service line data data that will be reported each year starting in 2024. Using several of Esri's solutions along with Customer Service data, Maine Water Company is entering service line material information during day-to-day operations. Brendon will review the platform design, challenges, and successes of version 1.0 of the product. We will also be looking for active participation and information sharing with attendees with their own experiences and potential hurdles of this looming inventory.</p>
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Session 17: Hot & Cold Part 2: Cold Weather Safety

<p>Room: Penobscot</p> <p>Time: 2:45 PM – 3:45 PM</p> <p>Track: Emergency Prep & Safety</p> <p><u>Moderators</u></p> <p>Primary: Benny LaPlante</p> <p>Secondary: Dan Burdin</p>	<p>Course Instructor: Jacob Heide</p> <p>Course Description:</p> <p>"Anyone working in a cold environment may be at risk of cold stress. Some workers may be required to work outdoors in cold environments and for extended periods, for example, snow cleanup crews, sanitation workers, police officers and emergency response and recovery personnel, like firefighters, and emergency medical technicians. Cold stress can be encountered in these types of work environment.</p> <p>The learning outcomes include:</p> <ul style="list-style-type: none"> • How cold is too cold? • Risk Factors • Signs and Symptoms of Cold Injuries • Cold Stress Prevention
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THURSDAY, FEBRUARY 2, 2023

Session 18: Asset Management & Rate Setting

<p>Room: Arnold</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Mike Cummons</p> <p>Secondary: Amanda Keyes</p>	<p>Course Instructor: Arnab Bhowmick</p> <p>Course Description:</p> <p>Utilities struggle with maintenance and operations of their assets, while trying to upkeep their infrastructure to the required state of good repair, and comply with various regulations, condition assessments, and reporting requirements. Organizations confront challenges with tactical maintenance management, strategic asset management, strategic planning, capital and comprehensive planning, rate setting, project management, forecasts, and budgets etc. Moreover, several federal, state, and insurance agencies are mandating electronic asset management for ongoing reporting, funding, operations etc. While good asset management enables you to get the most from your assets, understanding how to do it right is the key. This is easier to achieve than you might think, and your citizens will appreciate the ramifications - better service, rates, and responsive government. This is an immersive session that will discuss the basics and go beyond to equip you with the knowledge and a real time data driven approach to implement or enhance asset management programs for your utilities.</p>
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Session 19: Groundwater Exploration and Public Supply Wells: Part 1

<p>Room: Fort Western</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Darrin Lary</p> <p>Secondary: Benny LaPlante</p>	<p>Course Instructor: Greg Smith and Katelyn Cox</p> <p>Course Description:</p> <p>This 2-session presentation will cover a range of topics for developing a new groundwater source including: exploration, production well construction, testing, permitting and maintenance. Multiple case studies will be discussed.</p>
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Session 20: Drones: UAS Basics & Beyond

<p>Room: Kennebec</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Justin Richardson</p> <p>Secondary: Peter Goodwin</p>	<p>Course Instructor: Patrick Moran</p> <p>Course Description:</p> <p>Making sense of all the flight platforms and software out there and how to get started with a drone program.</p> <p>A drone presentation that will discuss the various flight platforms, cameras and sensors available today and which ones will honestly fit your needs. How to determine what your needs are and what you'll need to make it a reality. We'll discuss the various sensors available (cameras, LIDAR and Multispectral), the vast software offerings out there and licensing.</p>
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Session 21: Cyber Security Best Practices & Support

<p>Room: Penobscot</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>Track: Emergency Prep & Safety</p> <p><u>Moderators</u></p> <p>Primary: Dan Burdin</p> <p>Secondary: John Cummons</p>	<p>Course Instructor: Tim Donaldson and Thomas Swenson</p> <p>Course Description:</p> <p>This session will provide brief overview of the situation, some relevant background, and industry standards for cyber-security. We will then reinforce operational best practices with a live demo, introduce some architectural security designs, and talk about remote connectivity scenarios. Also covered in this presentation will be a CISA overview, including the mission and goals of the agency, an overview of the Protective Security Advisor and Cybersecurity Advisor programs, and the types of free services available to Maine Critical Infrastructure partners.</p>
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Session 22: COVID-19 in Wastewater: What the Samples are Saying

<p>Room: Lincoln/Oxford</p> <p>Time: 8:00 AM – 9:00 AM</p> <p>Track: MeWEA</p> <p><u>Moderators</u></p> <p>Primary: Rob Pontau</p> <p>Secondary: Bruce Berger</p>	<p>Course Instructor: Phyllis Rand</p> <p>Course Description:</p> <p>This presentation will discuss the results, the public's initial and current reaction, and use of the data by state and federal agencies that monitor the spread of Covid-19 from GAUD's influent wastewater sampling for the SARS-CoV-2 virus from 2020-2022. Join us to learn about wastewater epidemiology. Included will be the benefits of a sampling program and how to work with the public.</p>
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Session 23: Biz Continuity, Succession Planning & Emergency Response

Room: Arnold

Time: 9:15 AM – 10:15 AM

Track: Administrative & Mgmt.

Moderators

Primary: Mike Cummons

Secondary: John Cummons

Course Instructor: Arnab Bhowmick

Course Description:

Organizations cannot risk the chance of being crippled even in a pandemic or during natural calamities, or emergencies, and workforce turnover. There are established rules about the upkeep of the regular and critical operations during any major events, and loss of critical human resources. This class covers normal disruptive events, deals with bigger showstoppers like the pandemic, and helps strategize dealing with workforce turnover and succession planning. The interactions with your customers, citizens, partners, inter and intra organization teams also become critical during these transitory phases. We will discuss business continuity, succession planning, and operations continuity in an adaptive hybrid mode with a mix of online and in-person interactions where what makes sense. The attendees will come out with a clear idea on how to deal with such events in the future.

Session 24: Groundwater Exploration and Public Supply Wells: Part 2

Room: Fort Western

Time: 9:15 AM – 10:15 AM

Track: Source & Treatment

Moderators

Primary: Darrin Lary

Secondary: Benny LaPlante

Course Instructor: Greg Smith and Katelyn Cox

Course Description:

This 2 session presentation will cover a range of topics for developing a new groundwater source including: exploration, production well construction, testing, permitting and maintenance. Multiple case studies will be discussed.

Session 25: Using Water Quality Models to Identify and Address Low Chlorine Residual in Distribution Systems

Room: Kennebec Time: 9:15 AM – 10:15 AM Track: Distribution & Storage Moderators Primary: Amanda Keyes Secondary: Chris Curtis	Course Instructor: Heather Doolittle Course Description: <p>Maintaining disinfection residuals in drinking water systems is critical. This session summarizes water quality studies to identify areas of low chlorine residual in multiple water distribution systems. Hydraulic models were updated for water quality modeling capability, calibrated using field sampling, and applied to address gaps in monitoring programs and improvement alternatives. Covered topics include a general background in chlorine chemistry, applying hydraulic models for water quality evaluations, and several case studies.</p>
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Session 26: Plain Old Telephone Service (POTS) Line Replacement

Room: Penobscot Time: 9:15 AM – 10:15 AM Track: Emergency Prep & Safety Moderators Primary: Dan Burdin Secondary: Justin Richardson	Course Instructor: Ken Knight, Tom Maguire and Mike Begin Course Description: <p>Plain Old Telephone Service (POTS) lines or analog phone lines are being phased out by phone companies. In some cases they are already not being used. In the water and wastewater world, alarm dialers, remote access for tank levels, and remote analog PLC connections utilize POTS lines. If they are phased out, this will be a huge burden. This session will discuss moving from old technology to new, utilizing an IP Network (IoT internet) to move your data, technology for private network security, and cost-effective cellular technology. Don't miss out on this session describing key steps to take to modernize your systems.</p>
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Session 27: Erosion Control & Sedimentation

Room: Lincoln/Oxford Time: 9:15 AM – 10:15 AM Track: MeWEA Moderators Primary: Rob Pontau Secondary: Bruce Berger	Course Instructor: Aubrey Strause Course Description: <p>Your project plan set might have a silt fence detail, but there's much more to think about before you start digging. In this session, we'll review the type of work that requires a Maine Construction General Permit (MCGP), how to determine if you need a natural resource Permit-by-Rule, what certification your contractor should have, how to choose erosion sedimentation and control (ESC) measures, and how to know when ESC measures on your site need repairs or maintenance. Full-size examples of many different ESC measures will be available for a real hands-on learning experience.</p>
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Session 28: Upcoming Technology for Utilities

<p>Room: Arnold</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Amanda Keyes</p> <p>Secondary: John Cummons</p>	<p>Course Instructor: Arnab Bhowmick</p> <p>Course Description:</p> <p>The whole world is moving online more and more, and now accelerated by the emergencies, disruptions, and pandemic. What are the best tools and tech you can leverage in utilities? What protocols or trends are upcoming that you should consider leveraging? This session will deal with the basic understanding of the paradigm shift, and provide managers in all ranks ideas and tools to bank on.</p>
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Session 29: Using a Surveillance Program as an Important Tool to Optimize Filtration Performance

<p>Room: Fort Western</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Chris Curtis</p> <p>Secondary: Peter Goodwin</p>	<p>Course Instructor: Donald Bunker</p> <p>Course Description:</p> <p>This session will provide an overview of proven filter monitoring techniques essential to effective filter maintenance and operational optimization. The program will begin with a brief overview of filter design and the filtration process and a discussion of the benefits of a regular filter surveillance program. Important elements of a filter surveillance program such as visual observations for maldistribution, determining bed expansion and its relationship to backwash rates and backwash turbidity profiling will be presented. The session will also discuss filter media collection and analysis including floc retention analysis, grain size distribution and determining effective size.</p>
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Session 30: Forestry & Protecting Watersheds

<p>Room: Kennebec</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Justin Richardson</p> <p>Secondary: Darrin Lary</p>	<p>Course Instructor: Andy Shultz</p> <p>Course Description:</p> <p>Join Andy Shultz and MWUA for a presentation on forestry in your watershed. Andy will discuss sustainable harvesting and planning with emphasis on long-term protection of watersheds. Other topics covered include the control of invasive species, use of GPS units, and use of drones.</p>
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Session 31: The History of Water Regulation

<p>Room: Penobscot</p> <p>Time: 10:30 AM – 11:30 AM</p> <p>Track: New to the Industry</p> <p><u>Moderators</u></p> <p>Primary: Mike Cummons</p> <p>Secondary: Dan Burdin</p>	<p>Course Instructor: Anne Malenfant</p> <p>Course Description:</p> <p>The Safe Drinking Water Act (SDWA) just turned 48 years old - this session will cover the history and development of regulations in the drinking water industry as it nears a half century. Learn about how the potable water landscape has evolved, rulemaking has changed and what it might look like in the next 50 years to provide safe drinking water for future generations. This presentation will include key information on permitting and working with the State and Federal Governments. Whether you are a history buff, water veteran, or someone new to the industry, there will be something new to learn for everyone!</p>
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Session 32: Biosolids Master Planning

<p>Room: Lincoln/Oxford</p> <p>Time: 10:30 PM – 11:30 PM</p> <p>Track: MeWEA</p> <p><u>Moderators</u></p> <p>Primary: Rob Pontau</p> <p>Secondary: Bruce Berger</p>	<p>Course Instructor: Tracy Chouinard</p> <p>Course Description:</p> <p>As biosolids management costs continue to rise in light of emerging contaminants and evolving regulations, wastewater treatment facilities are evaluating long-term resilient and reliable solids processing alternatives. The biosolids master planning project evaluates solids processing and disposition alternatives, including engineering analysis, risk identification, regulatory review, and life cycle cost comparisons. The resulting dynamic roadmap outlines a path to sustainably and safely manage and process biosolids generated at wastewater treatment facilities. This presentation will present the life cycle costs analysis for each alternative, discuss the risks and non-cost decisions, and the proposed roadmap for the future.</p>
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Session 33: Maine PUC Terms & Conditions

<p>Room: Arnold</p> <p>Time: 12:45 PM – 1:45 PM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Mike Cummons</p> <p>Secondary: John Cummons</p>	<p>Course Instructor: Stephani Morancie</p> <p>Course Description:</p> <p>This class will review the basics of terms and conditions: how to file, how often to review and rewrite, and what the MPUC review process entails. It will also cover unique terms and conditions, such as bulk water sales, and more. Join Stephani from the Maine Public Utilities Commission to learn valuable information, tips, and dos and don'ts when considering your terms and conditions.</p>
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Session 34: Erosion in KKW's Watershed: A CMP Case Study

<p>Room: Fort Western</p> <p>Time: 12:45 PM – 1:45 PM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Jen Bridges</p> <p>Secondary: Chris Curtis</p>	<p>Course Instructor: Justin Richardson and William Goggin</p> <p>Course Description:</p> <p>KKW’s Branch Brook is the primary water supply for the District. Much of this watershed occurs within the Kennebunk Plains and Wells Barrens, managed by the State as a refuge, and which provides habitat opportunities for rare plants and wildlife. This unique area was glacially formed 14,000 years ago with glacially deposited sand and gravel. The sand in the area is extremely fine grained with deposits greater than 70+ feet deep. With a shallow topsoil and organic layer/root mat, the overall area is prone to erosion. In 2022 Central Maine Power Company (CMP) worked with KKW, The Nature Conservancy, the Maine Inland Fish and Wildlife Department and environmental consultants to restore an erosion prone area within CMP’s Right of Way (ROW) that had been disturbed by unauthorized ATV use and which has caused significant volumes of sand to be displaced. Along CMP’s transmission corridor there are other erosion-prone portions of the ROW that will be undergoing restoration efforts in 2023. This presentation will discuss the unique erosion issues, threat to drinking water quality and the 2022 restoration effort completed by CMP and the project stakeholders.</p>
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Session 35: Steel Water Storage Tank Maintenance

<p>Room: Kennebec</p> <p>Time: 12:45 PM – 1:45 PM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Darrin Lary</p> <p>Secondary: Amanda Keyes</p>	<p>Course Instructor: Ted Lund</p> <p>Course Description:</p> <p>Using the best available technologies to provide long term maintenance for steel water storage tanks. Maximizing protective coating life, proper application of cathodic protection and achieving the lowest life cycle cost. Be sure to bring your questions for Ted!</p>
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Session 36: Water 101 with Benny and Kevin

Room: Penobscot

Time: 12:45 PM – 1:45 PM

Track: New to the Industry

Moderators

Primary: Dan Burdin

Secondary: Peter Goodwin

Course Instructor: Benny LaPlante and Kevin Luttrell

Course Description:

Geared towards office staff and young professionals, Kevin and Benny will discuss the basics of water treatment and distribution to help you understand the process for delivering potable water to customers throughout your system. Learn tips, tricks, and best practices for working in drinking water treatment and distribution systems. Whether you are new to the industry or someone looking for a great refresher, this is surely a class you won't want to miss!

Session 37: Workforce Development Through Your Local School System and NEWEA's Veteran Workforce Development Program

Room: Lincoln/Oxford

Time: 12:45 PM – 1:45 PM

Track: MeWEA

Moderators

Primary: Rob Pontau

Secondary: Bruce Berger

Course Instructor: Phil Trucker and Theresa Tucker (Part 1), Peter Goodwin and Dustin Price (Part 2)

Course Description:

Part one of this session details how working with your local school system the work York sewer district is doing to help develop the up and coming work force. Part two: NEWEA/MEWEA Water Warrior Jobs Initiative. The "Water" sector has been facing the silver tsunami like many other industries. With knowledgeable operators, engineers, administrators who started careers when the Clean Water Act was promulgated. With over 50% of our licensed operators over 50 years old, many are eligible to retire in the next 5-10 years. In 2017, as a result of our NEWEA Washington Fly-In with Maine's Congressional Delegation, a few MEWEA members focused on this need and suggested that EPA 104g funding should be focused on training and certifying retiring service members who had the training, experience, and skills to transition into careers in drinking water and clean water. NEWEA created an Ad-Hoc Committee and a white paper was developed focused on recruiting transitioning active-duty service members and Veterans, facilitating training and certification/licensing and promoting apprenticeships in the water industry. This effort recently led to the production of a New England focused recruiting video that is being shared with DOD/DOL's Transition Assistance Program (TAP) that the 200,000-250,000 retiring service members are required to participate in during their last year of service. This session will provide the history of the WWJI along with an update on our progress and share the recently produced NEWEA WWJI video.

Session 38: Customer Service & Billing Roundtable

<p>Room: Arnold</p> <p>Time: 2:00 PM – 3:00 PM</p> <p>Track: Administrative & Mgmt.</p> <p><u>Moderators</u></p> <p>Primary: Justin Richardson</p> <p>Secondary: Jen Bridges</p>	<p>Course Instructor: Kathleen Chapin, Stephani Morancie & Karen Arbour</p> <p>Course Description:</p> <p>Join MWUA, the Maine PUC, and your colleagues from around the state for a panel and roundtable discussion on customer service and billing in our industry. We will kick off with discussions from the panel before opening it up for questions from the audience. So, make sure to bring your questions and stories for a great discussion!</p>
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Session 39: DBP Management: Choosing One Path from Many to Balance Compliance & Resilience

<p>Room: Fort Western</p> <p>Time: 2:00 PM – 3:00 PM</p> <p>Track: Source & Treatment</p> <p><u>Moderators</u></p> <p>Primary: Mike Cummons</p> <p>Secondary: Chris Curtis</p>	<p>Course Instructor: Mike Ames and Anne Malenfant</p> <p>Course Description:</p> <p>The Camden-Rockland Division of Maine Water Company (MWC) was facing rising disinfection byproducts (DBPs) and needed a rapid compliance solution. With a growing understanding of types DBPs, evolving regulations and potential unintended consequences, choosing the right solution requires a thoughtful approach. The MWC and CDM Smith team evaluated a range of solutions throughout the water system, including a full-scale pre-membrane coagulant pilot, chloramines, post-membrane organics removal and distribution storage tank mixing/aeration. The results can help other utilities dealing with similar compliance issues.</p>
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Session 40: South Paris, ME - Hooper Ledge Prestressed Concrete Water Storage Tank: Case Study

<p>Room: Kennebec</p> <p>Time: 2:00 PM – 3:00 PM</p> <p>Track: Distribution & Storage</p> <p><u>Moderators</u></p> <p>Primary: Darrin Lary</p> <p>Secondary: Amanda Keyes</p>	<p>Course Instructor: Dustin LaCombe</p> <p>Course Description:</p> <p>In early 2022, Preload was awarded the contract to construct a 500,000-gallon prestressed concrete water storage tank for the Paris Utility District to replace an existing cast in place concrete tank on Hooper Ledge Road in South Paris which had extended beyond its useful service life. This case study will take you through some design considerations, construction hurdles and successes along the course of this tank construction project.</p>
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Session 41: Water 102 with Benny and Kevin

<p>Room: Penobscot</p> <p>Time: 2:00 PM – 3:00 PM</p> <p>Track: New to the Industry</p> <p><u>Moderators</u></p> <p>Primary: Dan Burdin</p> <p>Secondary: Peter Goodwin</p>	<p>Course Instructor: Benny LaPlante and Kevin Luttrell</p> <p>Course Description:</p> <p>Benny and Kevin will review common customer questions and how to respond whether in the office or while on call after-hours. Topics include discolored water, taste and odor, pressure and flow, among others. Join Benny and Kevin to learn more about what these veterans have experienced when working with customers and to learn about best practices for customer communications.</p>
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Session 42: Wastewater Operator Hacks: Tips & Real Life Hacks to Simplify Your Work Life

Room: Lincoln/Oxford

Time: 2:00 PM – 3:00 PM

Track: MeWEA

Moderators

Primary: Rob Pontau

Secondary: Bruce Berger

Course Instructor: Various MeWEA Collection Committee Members

Course Description:

Join members of the MEWEA Collection System Committee as they share operator tips and hacks that have been used at treatment plants and collections systems to simplify day to day activities. Whether you have been experiencing an on-going issue or are yet to face a problem, this is surely a class for you. Please bring along some of your own hacks and all the questions as someone may have a solution for your hard to solve problem!