System -Technical		<b>peration Specialists</b> (3/22/2023) 7:30 am—5:30 j		<b>f Our</b> in Conve		ons				
& Wednesday Sessions - March 22, 2023										
	Canadian Room	Britain Room	American Room		Lewis & Clark Room	Missouri Room				
	W2ASAC Fi	2:15 pm Morning Session T Funding Workshop unding Agencies 0 CEC's Clerks/Dual		10:30 to 11:30	The Numbers We Use John Schwartz, USABlueBook A math class that is applicable to both the water & wastewater industry. Learn the two basic tools taught in an easy straight forward way. Once mastered, this method can be used in 90+ percent of all math concerns in the water/wastewater industry.	Lagoon Treatment Processes & Sludge Management Rika Lashley, Morrison-Maierle Rika will give an overview of the primary biological treatment processes occurring in a wastewater treatment lagoon system. Primary tools for assessing lagoon process health & responding to upsets will be described.				
					0.1 CEC's Dual	0.1 CEC's Wastewater				
		Lu	nch on Your Own							
1:00 PM to 2:00 pm	Process and Problems of Leak Detection Michael Carothers, Leak Locators of Montana/Sewerin You know you have a water leak but where do you begin? Whether you are calling in a contractor or tackling the problem in-house, you can save time and money knowing how to accurately pinpoint the leak without drilling! 0.1 CEC's Water	Beyond Billing: A Survey of the Applications of AMI Based Data for Smart-Water Use Cases Erik Ongstad, Sensus, a Xylem Brand An investment in AMI can open-up ways to go 'beyond the meter' in order to enhance modeling and planning, improve operations and asset management, and mitigate risk 0.1 CEC's Water/Clerks	HDPE: Above Ground & Irrigation Daniel Landy, Alliance for PE Pipe This presentation will highlight installation methods and discuss the necessary considerations for a successful project. Additionally,we will look at technical references that the end users can take with them to aid in the design of their next above ground or irrigation piping project. 0.1 CEC's Dual		Who's Lurking In Your Files? Josh Botz & Jason Mercer, Morrison-Maerle This session will dive into some simple, low-cost steps owners & operators can take to protect their systems from cyber attacks. We'll also offer some tips to take back to your councils on the importance of cybersecurity. 0.1 CEC's Dual/Clerks	Aeration System Considerations for Lagoon Treatment Patrick Ely, Nexom This presentation will review the various technologies and present some critical considerations for owners, engineers, and operators. 0.1 CEC's Wastewater				
2:30pm to 3:30pm	How to Achieve LCRR Compliance with Confidence Lowell Huffman, 120Water 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 & resources decision-makers can use to maneuver the complexities of the LCRR & ensure program success.	Water System Modeling: Planning, Asset Management, Maintenance McKenzie Butcher, KLJ This session covers the capabilities of water modeling for both Infowater & WaterCAD for municipalities. It will cover the technology capabilities & how it can be used for future planning of the system, asset management, and leak detection and more!	Online Water Quality, Key Monitoring Po Technologies to Supp Brittany Baker, ABB/Wi In this presentation, we will monitoring areas with the H ROI, compliance and/or en impacts. We will categoriz water analyzers that are app operating principles, pros each, and best installation	Analyzers: ints & ort Them nn-Marion lidentify key wironmental e the online ropriate, their and cons of a practices.	Delegate Assembly Meeting All members are	Listen Closely, Your Sewer Is Talking to You Brogan Quist, SmartCover Systems We will review how customers can adopt unique remote monitoring technology, which gives them data in the field that they did not have before.				
4:00pm to 5:00 pm	0.1 CEC's Water Overcoming Cast Iron Mains in Roundup, Montana Greg Lukasik, Great West Engineering & Lon Sibley, City of Roundup We will focus on the original problems with the cast iron mains, the phase by phase improvement challenges, funding, & the public's response as a result of communication with city residents.	0.1 CEC's Water/Clerks Inventories, Strategies, & Public Engagement for LCRR Crystal Bennett, Great West Engineering This session will review specific requirements of the development of the service line inventory. Also strategies & methods for obtaining information as well as ways to engage the public.	0.1 CEC's Dua OBIC Products for Lining Seth Huggins Advanced Lining Presentation based ar process & importance infrastructure. Manhol channels, & secondary co to stop infiltration & elem other corrosion	s Structures , , LLC ound the of lining es, tanks, ontainment inate H25 &	welcome to attend! Old Business. New Business. Legislative Issues. Election of Board Members!	0.1 CEC's Wastewater The Answer to Sustainable, Effective WW Treatment Is Under Our Feet Suzan Chin-Taylor & Rodney Dickerson, Creative Raven/Enbiorganic Technologies Together we will explore soil biology and how mother nature has provided us with the optilmum ww super-hero bacteria, why it works so well, and more!				
	0.1 CEC's Water 0.1 CEC's Water/Clerks 0.1 CEC's Dual 0.1 CEC's Wastewater									
8:00 am to 9:30am	Offices water of the set of									
10:30am to 11:30am	9:30 am to 10:30 am >>>>>>BREAK<<<<>> Operation Specialists: Champions of our Communities Speakers - Don Van Veldhuizen, CET									
11:30am to 12:45pm	MRWS LUNCHEON Guest Speaker - Invited									

	Thursday Afternoon Sessions - March 23, 2023							
<u>N</u> e	Canadian Room Britain Room American Room Lewis & Clark Room Missouri Room							
l:00pm to 2:00pm	Montana's Lead Service Line Program Greg Montgomery & George Williams, MDEQ Summary of the Lead Service Line Inventory requirements. Will review Montana's LSL inventory Guidance and inventory templates as well as discuss funding options. 0.1 CEC's Water	Program     Introductory discussion of key factors &         Villiams, MDEQ         An introductory discussion of key factors &         variables that can negatively affect the         reliable performance of Water Utility SCADA         and other critical radio networks, how to         identify deficiencies in these systems, and         how to correct them.         SCADA Radio Network Issues         Michael Kropp, MDEQ, PW         Introduction to the importan         and creation of an asset regis		RD Funding and How to Get It Steve Troendle, USDA RD Steve will provide an overview of eligible projects for RD funding and discuss eligibility requirements. Everything from how to apply to common issues in the process will be discussed in this presentation. 0.1 CEC's Dual/Clerks	Wear Determination in ESMIL Multi-Disc Screw Press Sergiy Pesin, ESMIL This session will examine the wear a screw-press after being in operati for 4 years. It will compare differen presses and wear as well as differen dewatering technologies. 0.1 CEC's Wastewater			
2:30pm to 3:30pm	An Overview of Sodium Hypochlorite Systems for Regional Treatment Bryce Possiel, Evoqu & Water Technologies This will focus on "bulk" 12.5% sodium hypochlorite vs. generating hypochlorite on site at 0.8%. The aim is to provide a high-level technical overview of the electrolytic process, but focus on the application of both technologies for small water treatment plants, well houses, and chlorine booster stations. 0.1 CEC's Water	Leak Detection Methods Mike Uthe, Mueller Water Products Mike will discuss the reasons for leak detection in a water system along with how to prevent them in the first place. We will then discuss some of the methods used to detect leaks along with tips & tricks for successful locates. 0.1 CEC's Water	Confessions of an Operator – "Learn from my Mistakes" Do Van Veldhuizen, CET Whether you are new to the industry or "Old as Dirt", mistakes can be learning tools. Confined space, electrical, and chemical handling issues to name a few. Any mistake can have dire consequences. Learn from the mistakes I have made over the decades. We NEED you in this amazing industry. Your significant other may need you also. 0.1 CEC's Dual	Cybersecurity for Water & Wastewater Systems Cade Beeton & Graham Arntzen, In Control Inc. This session will cover the basics of cybersecurity, including reviewing threats to SCADA, networks, typical vulnerabilities, mitigation measures, & best practices. 0.1 CEC's Dual/Clerks	Is the Town's WWTF Washed Awa Jason Mercer, Morrison-Maierle We will focus on planning, funding, des challenges, & construction of the proje The new WWTF is a 3-cell aerated lago w/a mechanical bar screen, floating diffused aeration, UV disinfection, a no potable water system using effluent, & effluent pump station. 0.1 CEC's Wastewater			
4:00pm to 5:00pm	Saving Money Pumping Groundwater Nicolas Steverlynck, Hose Solutions, Inc We will focus on pumping efficiencies and what is costing us money, how much it is costing and how we can save money and prolong the life of our wells and pumping equipment. 0.1 CEC's Water	Water & Wastewater Safety John Schwartz, USABlueBook This class covers potential hazards, confined spaces, mitigating hazards, personal protection equipment, and more making your workplace a safer place to be. 0.1 CEC's Dual	Principles of Level and Pressure Measurement Dana Pfeifer, VEGA Americas The focus of the session is to identify the principles of hydrostatic, ultrasonic, and Frequency-Modulated Continuous-Wave Radar level measurements. We will discuss how to apply these technologies in municipal applications and what potential pitfalls exist. 0.1 CEC's Dual	Infrastructure Funding & Project Development Collette Anderson & LaNette Jones, Great West Engineering This session will discuss project development & Montana's five primary infrastructure funding programs. We will discuss the steps needed to successfully develop & implement projects. 0.1 CEC's Dual/Clerks	Lagoons & Ammonia: Meeting Permit Limits in Cold Climates Patrick Ely, Nexom We will explore the background, methodology, merits, and suitable applications of two options - the submerged attached growth reactor & the moving bed biofilm reactor 0.1 CEC's Wastewater			
		·	ana's Best Tasting Water - Meter Con					
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		Friday	Morning Sessions - March 24,	2023				
8:00am to 9:00am	Technology Advancements in Leak Detection Michael Carothers, Leak Locators of Montana/Sewerin Michael will include an overview of various types of acoustic microphones, correlators, loggers, cell phone app's, infrared cameras, & combination tools and the specific scenarios & applications that are best suited for each tool. 0.1 CEC's Water	Using iamGIS software: Track & Manage Above & Below Ground James "Rusty" South, Vaughn Cascade Co W&S/iamGIS Rusty will demonstrate how simple & intuitive this software is to store maps documents & data all in one place, & be able to access the maps & data in the field. Create work orders & notifications. 0.1 CEC's Dual	Peristaltic & Diaphragm Chemical Feed Pumps: Benefits, Operation, & Maintenance Bill Ormsby, Blue-White Need help deciding what chemical feed pump technology to use for your application? We will focus on the specific operational functions of both pumps relating to system parameters such as chemical, flows, pressures, and more! 0.1 CEC's Dual	Knowing Your Board's Responsibilities Al Kelm, MRWS As operators and clerks, you deal with your boards/councils often. If you know their responsibilities, your dealings with them can go much easier. 0.1 CEC's Dual/Clerks	Townsend Wastewater System Improvement Projects Chris Hayes, RPA Tim Rauser, City of Townsend Townsend wastewater collection and treatment facility have greatly benefits from I&I abatement projects and recei treatment system upgrades to meet current MPDES permit discharge limits the Missouri River. 0.1 CEC's Wastewater			
9:30am to 10:30am	City of Glendive Water Treatment Plant Upgrades Susan Hayes & Amy Deitchler, Great West Engineering This session will discuss how the aging Glendive facility (built in 1916) was upgraded and still continued to provide the city with good water during the process.	AMI Options & Water Distribution Management Systems Nick Martinez, RepMasters, Inc. The technology to read water meters is changing rapidly & becoming more inclusive to the different initiatives of a water department. We now have the capabilities to monitor & assist in the distribution process!	Infrastructure Management Using GIS Jason Boucher, Interstate Engineering, & Peyton Brookshire, Billings Heights In this presentation we will explore how to set up a Geographic Information System to help you track & manage your infrastructure. We will look at some of the best practices for building a GIS database as well as deploying web-based & field ready solutions for managing it.	Financing Water & Sewer Projects: Options & Considerations Dan Semmens & Courtney Ellis, Dorsey & Whitney LLP This session will explore sources of funding, assembling funding packages, updates on federal funding, & the top 5 financing snafus & what to do about them!	Case Study: Four Corners FC & Foam Control Lewis Titus, Titus Industria Group, Inc This session will examine the FO problem Four Corners had and th process they used to control the issue.			
	0.1 CEC's Dual/Clerks	0.1 CEC's Water	0.1 CEC's Dual	0.1 CEC's Dual/Clerks	0.1 CEC's Wastewater			
10:45am to 11:45am		dates on Rates, Charges, & SRF Fur Anna Miller, DNRC v in the State Revolving Fund funding a	Benefits of Online Amperometric Chlorine Measurement Chris LaCour, ProMinent Fluid Controls This discussion will cover the history of chlorine measurement technologies, advantages/limitations of amperometric measurement over colorimetric analysis may still be preferable.	Sun Prairie Village Wastewater System Upgrades Craig Nowak & Rika Lashley, Morrison-Maierle This presentation highlights the proje- from initial development to its currer state. This includes the Preliminary Engineering Report, funding acquisitio extraordinary designs, construction ar equipment acquisition challenges.				
	0.1 CEC's Dual/Clerks	0.1 CEC's Dual/Clerks	0.1 CEC's Dual/Clerks	0.1 CEC's Dual	0.1 CEC's Wastewater			
11:45am to 1:15pm		VINGS						
1:30pm to 5:30pm								