Montana R				RWS Conference ful Future, One D						
Clean Water. A Beautiful Future, One Drop At A Time. Vicinital Assistance (refered Assistance (refered Assistance) Wednesday (5/19/2021) 7:30 am-5:30 pm Registration in Convention Area For All Sessions Visit the Vendors All Day!!										
*			Wedne	sday Sessions - May 19, 2		1				
	Canadian Room	Britain Room		American Room	Lewis & Clark Room	Missouri Room				
8	3:30 am to 12:30 pm Mor W2ASACT Funding W Funding Agencie 0.400 CEC's Clerks/E	orkshop es	10:30am to 11:30am	With the passage of AWIA,	Chemical Free Odor Control Along Conveyance Systems Lewis Titus TITUS Industrial Group, Inc. This presentation will look at several case studies conducted over the last few years, in both public and private systems. Technologies like aeration, ozone, mixing, & more will be explored. 0.1 CEC's Wastewater					
Lunch on Your Own				11:30 am - 1:00 pm - Lunch on Your Own						
1:00 PM to 2:00 pm	Upgrading Lagoon Based Treatment Systems to Meet More Stringent Limits for BOD, TSS and Nutrient Removal Tom Birkeland, LEMNA The discussion will provide data and specific case studies demonstrating the predicted performance vs. actual data, using the calibrated model. Regional case studies will be used to demonstrate the benefits of modeling practices for lagoon design.			How to Plan, Design, Build, & Modernize Your Enterprise GIS David Holdstock, Geographic Technologies Group; Kolten Knatterud, IMEG This presentation is a GIS roadmap to the who, what, when, where, and why of location intelligence, & how it can transform organizations.	Air Driven Floating Aerators/Mixers Lewis Titus, TITUS Industrial Group, Inc. A brief overview of mixers for water and wastewater. Will include discussion on versatility, new technologies, and mobility.	H ₂ S: Managing Odors & Reducing Corrosion - What's That Smell? Rick Allen, BioLynceus This session is a look at the underlying issue of management and safe handling of H ₂ S in collection systems and wastewater plants.				
	0.1 CEC's Wastewater	/		0.1 CEC's Dual	0.1 CEC's Dual	0.1 CEC's Wastewater				
2:30pm to 3:30pm	Backwash & Filtration Methods for Minimizing Water Waste Marc Hatfield, Filter Tech Systems This presentation discusses various backwash methods & filter maintenance procedures that can be used to optimize these processes & minimize waste of potable water during filtration & backwash.	New AWWA Standards & Revisions & Their Implications Randy Moore & Mike McKeever Tnemec Company, Inc. A review of the new standards and discussion of their implications. A data driven protocol will be offered that tank owners and coating specifiers can use to decide which coating systems to select and specify.		compounds and how single pass ion exchange media (or IX) can	Delegate Assembly Meeting All members are	Ammonia Permits and Lagoons: Fromberg Nick Janous, Nexom Through a case study of Fromberg's lagoon-based wastewater treatment plant, this presentation digs into the factors that limit lagoon-based nitrification, discuss the merits and challenges of mechanical plants, and introduces the SAGR post-lagoon nitrification option.				
	0.1 CEC's Water	0.1 CEC's Dual		0.1 CEC's Dual	welcome to attend!	0.1 CEC's Wastewater				
4:00pm to 5:00 pm	Flotation Without Dissolved Air: Charged Microbubbles Jeff Knollenberg, Heron Innovators, Inc. Case studies will be presented showing increased removal performance, reduced power consumption, reduced maintenance, less chemical requirement, increased solids loading, reduced operator attention, and capital cost avoidance.	Chemical Feed Syster and Feed Pumps Etienne E. Prehoda, ProM Fluid Controls This presentation will examin chemistries, do's and don't practices, and individual com for proper chemical meterin also look at different pumps for applications such as high o low& high flow; low & high p	dinent the typical the typical the typical the typical the typic	Retrofitting a 1960's Water Treatment Plant - Glasgow Jeff Ashley, Morrison-Maierle This presentation will focus on the pilot testing, pre-design, design, construction of the WTP upgrades, and initial operation. All components of the upgrade at the WTP were constructed within the existing building footprint, without expanding the building.	Old Business. New Business. Legislative Issues. Election of Board Members!	Design Practices for MBRs Mark Gehring, Fibracast Discussion on what MBR is, types of MBR, applications and best fit, benefits and challenges, problems solved, and some case studies.				
	0.1 CEC's Dual	0.1 CEC's Dual		0.1 CEC's Water		0.1 CEC's Wastewater				
8:00 am to 9:30am	0.1 CEC's Dual 0.1 CEC's Water 0.1 CEC's Water Thursday Sessions - May 20, 2021 *Invocation, Star Spangled Banner and Welcome from Mayor Bob Kelly - City of Great Falls *Program Changes, Vendor Announcement, Theme & MRWS—Salute to Operators "30 Years of Service" Awards *Program Changes, Vendor Announcement, Theme & MRWS—Salute to Operators "30 Years of Service" Awards *Program Changes, Vendor Announcement, Theme & MRWS—Salute to Operators "30 Years of Service" Awards *Program Changes, Vendor Announcement, Theme & MRWS—Salute to Operators "30 Years of Service" Awards *Program Changes, Vendor Announcement, Theme & MRWS—Salute to Operators "30 Years of Service" Awards *PA - Darcy O'Connor, Region 8 Water Division Director *USDA/RD - Steve Troendle, Director, Community Programs - Invited *DEQ - Chris Dorrington, Director - Invited *DRC - Amanda Kaster, Director *NRWA - Cameron "Cam" McKay, Director 9:30 am to 10:30 am									
10:20	Clean Water. A Beautiful Future, One Drop at a Time.									
10:30am to 11:30am	0.100 CEC's Dual Building an Apprenticeship Program for Montana Water/Wastewater Operators Speakers - Shannan Walton, Apprenticeship Program Director Mike Broad, US DOL Office of Apprenticeship from Wyoming									
11:30am to 12:45pm	MRWS LUNCHEON Guest Speaker - Governor Gianforte									

	Thursday Afternoon Sessions - May 20, 2021							
<u>N</u> e	Canadian Room	Britain Room	American Room	Lewis & Clark Room	Missouri Room			
1:00pm to 2:00pm	Hydraulic Control Valve Basics Mike Uthe, Mueller Water Products A discussion on hydraulic fundamentals of these valves, basics of a pilot system, & diverse valve/pilot set up solutions to help control & protect water system assets.	Emulsion Polymer Activation: The Science & Technology Etienne Prehoda ProMinent Fluid Controls Understanding emulsion polymer activation, having an introduction to polymer science, & being aware of today's equipment technology will significantly improve water & wastewater treatment processes.	Overview of CISA & Other Cybersecurity Services Richard Gardner, Region 8 CISA Discussion of no-cost Cybersecurity resources available to water & wastewater systems.	Apprenticeship Program in Montana Shannan Walton, NRWA A more indepth look at what a water/wastewater operator apprenticship program could mean for Montana systems and operators.	Lift Station Upgrades: New & Emergency Condition Case Studies Matt Mudd, Great West Sewer lift stations are one of the most critical infrastructure components used by wastewater systems across Montana. This presentation is not intended to focus on a single project but rather give a ligh-level overwiew of several types of lift station improvement projects encountered in Montana.			
	0.1 CEC's Water	0.1 CEC's Dual	0.1 CEC's Dual - Clerks	0.1 CEC's Dual - Clerks	0.1 CEC's Wastewater			
2:30pm to 3:30pm		Footprint Matters: Membranes for a New Generation Mark Gehring, Fibracast A discussion on how a hybrid ultrafiltration immersed membrane is able to filter mixed liquor in MBR applications in half the footprint or less required by other immersed membranes.	Distribution System Water Quality Improvements with the Use of Active Tank Mixing Jeff Rhodes, UGSI This session will point to real-world case studies & data that underscore powerful tank mixing as an important and necessary step to water quality improvement and distribution asset protection.	Infrastructure Funding & Project Development Collette Anderson & Craig Erickson, Great West Engineering The presentation will inform of basic requirements of Montana's infrastructure funding programs. Also will discuss the steps needed to successfully develop & implement infrastructure projects in Montana.	Retrofitting the MOB [™] Process for Improved Treatment Jason Calhoun, Nuvoda Municipal WWTPs across the US are faced with increasing pressure to upgrade treatment capacity and stability while maintaining cost efficiency. Nuvoda's MOB [™] Process is an innovative & sustainable wur treatment technology designed to tackle such challenges.			
	1	0.1 CEC's Dual	0.1 CEC's Water	0.1 CEC's Dual - Clerks	0.1 CEC's Wastewater			
4:00pm to 5:00pm	Ion Exchange vs Reverse Osmosis Austin Houser, Filter Tech Systems The information contained in this presentation is intended to help water plant operators better understand how to best treat for nitrates based on their specific groundwers sources using ion exchange or reverse osmosis.	Big Sky WRRF Project Development Scott Buecker, AE25 This presentation will cover development of the project, from conceptual studies in 2018 through preliminary and final design and bidding. Specific challenges to be discussed will include effluent reuse and disposal alternatives.	Beat Ultra-Low Phosphorus & Metals Targets w/Reactive Filtration Nick Janous, Nexom This session will cover a broad overview of the available techniques proposed for phosphorus removal and how installations currently meet end-user limits.	Financing Water & Sewer System Improvements Dan Semmens, Courtney Ellis Dorsey & Witney LLP This session will focus on developments under the State's infrastructure bonding bill and how local government funding packages will be affected by that bill.				
	0.1 CEC's Dual	0.1 CEC's Dual	0.1 CEC's Wastewater	0.1 CEC's Dual - Clerks	1			
		Thursday Night Bang	uet - Awards - Montana's Best Tastin	g Water				
		Frida	y Morning Sessions - May 21, 2	2021				
8:00am to 9:00am		Asset Management for Operations Mike Uthe, Mueller Water Products Asset management is only as good as the data that is available, & this presentation will focus on how to collect the data, and how to use it to improve service & plan for the future.	On-Site Sodium Hypochlorite Generation Jeff Rhodes, UGSI Lessons learned from over yrs of OSHG installations will be shared. Issues such as salt handling, salt purity, water softener reliability, ongoing maintenance & system layout will be addressed specifically.	Corrosion Inhibition Chemistry Andy Strand, Hawkins Inc. What causes your system to corrode or form scale and what can be done to solve these issues?	Updates on Rates, Charges, & SRF Funding Anna Miller, DNRC A discussion on what's new in the State Revolving Fund funding and utility rates and charges.			
	17	0.1 CEC's Dual	0.1 CEC's Dual	0.1 CEC's Water	0.1 CEC's Dual/Clerks			
9:30am to 10:30am	Chemical Metering Pumps Operation & Maintenance Joe Schmidt, Hawkins, Inc. How to operate and maintain your chemical feed system to save money and provide the best quality water to your customers.		Wastewater BNR: Biological Nutrient Removal/Monitoring Tony Magnusen, ABB The removal of ammonia from wastewater is normally achieved through nitrification. All nutrient removal systems require continuous monitoring to achieve highest removal efficiency. On-line ammonia and phosphate analyzers are the fastest and most accurate methods of measuring both components.	Reviving the Heart of the Collection System - Reserve Street Lift Station Jason Mercer, Morrison-Maierle The focus will be presenting & discussing the change in flow conditions in 10 yrs, the operation of the 4-pump system, lessons learned from the past system, the layout of the new wet-well and valve vault, and connections to the main.	American Rescue Plan Act Anna Miller, DNRC This bill provides additional relief to address the continued impact of COVID-19 on the economy, public health, state and local governments, individuals, and businesses.			
	0.1 CEC's Dual	Ń	0.1 CEC's Wastewater	0.1 CEC's Wastewater	0.1 CEC's Dual/Clerks			
10:45am to 11:45am	The Particulars to Lead Particulate David Carlson, AE25 The Revised Lead and Copper Rule (LCR) has been a hot topic of conversation recently. This presentation will focus on breaking down the concepts to lead in water systems, dissolved and lead particulates, water quality, and key modifications that systems should start considering in preparation for the Revised LCR. 0.1 CEC's Water	Tips for making the case to invest in analytics software. Five key factors to consider when evaluating analytics software.	MBR Implementation for Class A-1 Effluent Eric Blanksma, Morrison-Maierle A discussion of design, permitting, & construction of a MBR treatment plant to produce Class A-1 reuse effluent meeting strict turbidity, total nitrogen, & total coliform limits.	New Process Train Raises Bar for Lagoon-Based Intensification Nick Janous, Nexom Lagoon wastewater treatment across North America are facing increased ammonia scrutiny & loading, and many have no ability to expand their footprint. Absarokee asked Great West Engineering to design a plant upgrade with exactly these constraints.	Security Hardening Isn't Tough Conor Smith, First Call Organizations are facing new threats and the big questions of What do we need to do to protect ourselves? How will we set a strategy? How will we implement it? How much will it cost? This presentation hopes to answer those questions for you. 0.1 CEC's Dual/Clerks			
	U.I CEC S Water	0.1 CEC's Dual	0.1 CEC's Wastewater	0.1 CEC's Wastewater	ULT CEC S DUAI/CIERKS			
11:45am to 1:15pm		MRWS LUNCHEON & DRAWINGS Speaker Invited						
1:30pm to 5:30pm		GOOD LUCK /	STATE OPERATOR CER CANADIAN & BRI					