

2018 RMSAWWA / RMWEA Joint Annual Conference: September 17-19

Free WiFi (case sensitive)
Username: 2018Denver
Password: 2019Keystone

Monday, September 17th

Conference App: Search "JAC 2018" to download

7:00	REGISTRATION 7:00 AM to 5:00 PM Location: Ballroom Pre-Function Area				First Time Attendee/New Member Breakfast 7:00 AM to 8:00 AM BUFFET BREAKFAST Location: Room 102			7:00	
8:00	OPENING GENERAL SESSION 8:00 to 9:30 AM Location: Room 205 / 207						EXHIBIT HALL SETUP 7:00 - 9:00 AM	8:00	
8:30								8:30	
9:00								9:00	
9:30	Exhibit Hall Grand Opening / Taste Test Exhibit Hall							9:30	
10:00								10:00	
Room	ROOM 108 Moderator: Tyson Ingels	ROOM 109 Moderator: Michael Arceneaux	ROOM 110 Moderator: Jamie Eichenberger	ROOM 111 Moderator: Andrea Song	ROOM 112 Moderator: Kevin Bergschneider	ROOM 113 Moderator: Victor Sam	Exhibit Hall Open	Room	
Session	Session 1: Corrosion Control Strategies	Session 2: Cyber Security	Session 3: Wastewater Process Optimization	Session 4: Water Planning	Session 5: Anammox Processes	Session 6: The Future of the Water Industry		Session	
10:30	How Can I get Back to Reduced Monitoring for Pb and Cu? Responding to the LOVE Letter/Applying for Reduced Monitoring Melanie Criswell, CDPHE	Water Sector Cybersecurity: Threats, Tools and Best Practices Michael Arceneaux & Jennifer Walker WaterISAC Jen Barna, Fort Collins Mike Riggs, Perch Security	Filament Control with Peracetic Acid as a Substitute for RAS Chlorination - First Full-Scale Demonstration Tanja Rauch-Williams Carollo Engineers	Managing a Comprehensive Upgrade Program for the Genesee W&S District Water System Mark Beebe HDR Engineering	Treating Anaerobic Effluents: Nitrogen Removal from Mainstream Wastewater Treatment with Partial Nitritation and Anammox Carolyn Coffey Colorado School of Mines	Collaborative and Productive Teams Anni Frid Santos Stantec		10:30	
11:00	Recent Changes to Requirements for Optimal Corrosion Control- Understand Your Water Quality Better! Tyson Ingels/Melanie Criswell, CDPHE		Improving Sludge Settleability and Biological Phosphorus in an SBR Facility Through Zero Capital Modifications Wendell Khunjar Hazen and Sawyer	South Metro Water Supply Authority ASR - Refined Planning Tools for ASR Development David Smith CDM Smith	AnitaMox Moving Bed Biofilm Partial Nitritation/Anammox Design and Implementation at the Robert W. Hite WWTP Cody Charnas Stantec	Innovation Through Teamwork Interactive Session Victor Sams Stantec		11:00	
11:30	Optimal Corrosion Control Treatment Pilot Testing- Denver Water's Challenges/Lessons Learned Ryan Walsh Denver Water		Use of Statistical Process Control for Fault Detection in Decentralized Wastewater Treatment Kathryn Newhart Colorado School of Mines	Right Sizing Denver Water's Infrastructure Peter McCormick Denver Water	From Snow White to Ruby Red - Startup of a 1 MGD Moving Bed Biofilm Partial Nitritation/Anammox Reactor at the Robert W. Hite WWTP Edyta Stec-Uddin MWRD	Building a Productive Team Victor Sams & Anni Frid Santos Stantec	11:30		
12:00	RMWEA Luncheon and Awards 12:00 PM to 1:30 PM Room 205 / 207						Exhibit Hall Lunch 12:00 PM to 1:30 PM Exhibit Hall	12:00	
1:00								1:00	
Room	ROOM 108 Moderator: Serenity Valdez	ROOM 109 Moderator: Joe Willich	ROOM 110 Moderator: Julie Smith	ROOM 111 Moderator: Andrea Song	ROOM 112 Moderator: Jose Velazquez	ROOM 113 Moderator: Chong Woo	OPERATIONS CHALLENGE Outside 1:30 PM to 4:30 PM EXHIBIT HALL CLOSES AT 6:30 PM	Room	
Session	Session 1 (cont)/Session 7: Corrosion Control	Session 8: Owner Panel on Alternative Delivery	Session 9: Wastewater Technology	Session 4 (cont'd): Water Planning	Session 10: Digestion	Session 11: Beneficial Reuse of Digester Gas		Committee Meetings	Session
1:30	Session 1 (Cont): Broader Perspectives, National Trends, & Unintended Impact of the Pb & Cu Rule Chad Seidel Corona Environmental	The ABCs of Collaborative Delivery Greg Woodward Stantec Randy Kenyon CGRS	Redefining Being Green: Extended Piloting of a Microalgae Technology for Low-Level Nutrient Removal and Recovery Alexandra Doody CDM Smith	We Have a Long Range Water Master Plan and Our Key Assumptions Have Changed, Now What? Alicia DuPree City of Aurora Water Department	How Class A Can Have a Lower Overall Cost Than Class B - Evaluation/ Implementation of 'SECOND GENERATION' ATAD David Oerke Jacobs	Feasibility Studies, from Simple to Complex Cole Sigmon, Boulder John Gage, Longmont Gunter Ritter, SPWRP		RMWEA Collection Systems Stephanie Segler HDR	1:30
2:00	Session 7: Corrosion Control Managing Metals Load at WWTP by Corrosion Control at Drinking Water Plants Kristen James HDR Engineering	How to Avoid Design/Build/Litigate/ Lose Ed Bliesner Welborn Sullivan Meck & Tooley	Advanced Biological Nutrient Recovery and the Circular Economy Jordan Lind CLEARAS Water Recovery	Reimagining a Retrofit Clara Levy Burns & McDonnell	Solving Digestion Issues in the Rocky Mountains Justin Wippo Thermal Process Systems	Solutions in Progress, Not One Size Fits All Cole Sigmon, Boulder John Gage, Longmont Chong Woo, SPWRP		RMSAWWA Membership Task Force Ashley Waldron Jacobs	2:00
2:30	Corrosion Control Treatment Strategies for Changing Source Water Quality Jacqueline Rhoades Hazen and Sawyer	Solving Water Quality for Denver Water w/Design/Build Brett Bailey Denver Water Bayard Yang Brown & Caldwell	A Pilot Study Assists with Innovative Technology Selection Anna McKenna JVA, Inc.	The Science and Benefits of Community Water Fluoridation Programs Beth Wyatt Colorado Dept. of Public Health and Environment	What We Can Learn from the Co-Digestion Experience in Central Europe Tanja Rauch-Williams Carollo Engineers	Viewpoint from Critical Partners Presenters to be determined	Emergency and Preparedness Task Force Diane Monahan Gillette, WY	2:30	
3:00	NETWORKING BREAK Exhibit Hall					Management Short Session 12: Bayard Yang		3:00	
3:30	When Life Gives You Lead, Get the Lead Out - Lessons Learned Through Pipe Loop Testing John Civardi Mott MacDonald	Owner's Panel Discussion on Alternative Delivery Jim Mallorej, MWRD Chong Woo, SPWRP Larry Wyeno, City of Longmont	Peracetic acid (PAA) for Wastewater Disinfection? A Cost-effective Retrofit Option for Chlorine-based Systems Allegra da Silva Brown and Caldwell	UV Disinfection Facility Retrofits-the Least Cost Method for Improving Public Health Protection Chris Schulz CDM Smith	Reducing the Energy Demands of Thermal Hydrolysis by Using Different Configurations and Co-substrates Paul Christy & Bill Barber Cambi Inc.	Outreach & Communication for Today's Water Customer Tara Bettale HDR Engineering, Inc.	Young Professionals Dan Freedman, Stantec	3:30	
4:00	Taking Action Levels: Optimizing Treatment for Corrosion Control at a Small Mountain District Mark Maxwell & EJ Katsoulas Tetra Tech	You're Considering D/B...What Now? Working with an Owner Advisor to Decide on D/B- or Not Leofwin Clark Brown and Caldwell	3 Years of Operation of a Non-Contact UV Disinfection System Arne Diering Enaqua	Hypo Up Your Disinfection System: Increasing Disinfection Safety and Security with Sodium Hypochlorite Andrew Toth Burns & McDonnell	Five Ways to Boost Methane Production and Optimize Anaerobic Digestion Processes Wes Cardwell Garver, LLC	How We Opened a Washed-out 5-lane Arterial Road in 21 Days Kyle McTeague Murraysmith	Joint Utility Management Council Cindy Goodburn	4:00	
4:30 - 6:30	TOILET BOWL TRIVIA SOCIAL Happy Hour and Hors D'oeuvres 4:30 to 6:30 PM Location: Exhibit Hall							4:30 - 6:30	

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Tuesday, September 18th

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7:00	All-Conference Reuse Panel, ROOM 207 Participants - TBD							REGISTRATION 7:00 AM to 5:00 PM Location: Ballroom Pre-Function Area	7:00
8:00									8:00
8:30	NETWORKING BREAK								8:30
Room	ROOM 108 Moderator: Angela Goodman	ROOM 109 Moderator: Sean Lieske	ROOM 110 Moderator: Jim DeWolfe	ROOM 111 Moderator: Mike Berry	ROOM 112 Moderator: Jeff Berlin	ROOM 113 Moderator: Bryan Coday	ROOM 106 Moderator: Bud Spillman	Room	
Session	Session 13: Process Modeling	Session 14: Drinking Water Regulations	Session 15: What's New in Water Filtration	Session 16: Collection/Distribution Operations	Session 17: Wastewater Process Optimization	Session 18 A: Committee Meetings	Session 19: Operations	Session	
9:00	State-of-the-art Clarifier Modeling: 2D and 3D Applications Alonso Griborio Hazen and Sawyer	Colorado's Regulatory Update: Field Discovered Violations Tim Jones CDPHE	Pilot Testing Nanofiltration To Minimize Treated Water TOC and DBP Formation Douglas Brown CDM Smith	Pump Selection Made Easy? Not Always When Pumping in Parallel Don Burger Tetra Tech	Biological Denitrification Deep-bed Filters: How Close to Reg. 31 TIN Can We Get? Anna Schroeder South Platte Water Renewal Partners	Available for Committee Meetings Contact Registration Desk to Sign Up	Recommended Practices from Evaluating Turbidity and Log Inactivation Data Integrity at Water Treatment Plants David Dani CDPHE	EXHIBIT HALL OPEN 9:30 AM TO 10:00 AM TAPPING CONTEST & OPS CHALLENGE DEMO Location: Outside, Adjacent to the Outdoor Exhibit Area 10:30 AM to NOON	9:00
9:30	Monte Carlo-based Process Modelling Used to Optimize BNR Efficiency at MWRD's Northern Treatment Plant Colin Fitzgerald CH2M-Jacobs	Colorado's Drinking Water Regulations Update: Two Years Later Trevor Klein Colorado Department of Public Health and Environment	Conversion of Conventional Multi-media Filtration to Membrane Gravity Filtration Kelly Fearney FEI Engineers	Sharing Is Caring-From a WISE Idea to the Tap Marina Kopytkovskiy Parker Water and Sanitation District	Technical and Non-Technical Factors for Successful Process Optimization Ramon Arguello Fort Collins Utilities		Five Steps in Developing Effective SOPs Jeff Oxenford RCAP/ Oxenford Consulting		10:30
10:00	NEW FOR 2018: Exhibit Hall Mobile Sessions						Water Taste Test Competition Exhibit Hall Center Stage 10 - 11am		9:30
10:30	Networking Break, Exhibit Hall								10:00
11:00	Use of Modeling for Optimization of Activated Sludge Process Design Jurek Patoczka Mott MacDonald	Do I Need to Upgrade My License? Upcoming Changes to the Facility Classification Tables in Regulation 100. Tyson Ingels CDPHE	Fulfilling the Promise of Membrane Filtration Suez Water Technologies & Solutions	Preventative Maintenance- No Valve Left Behind Rebecca Erickson South Platte Water Renewal Partners	Stress Testing of a Secondary Clarifier with an Adaptive Inlet Structure Mario Benisch HDR	Innovative Wastewater Technology (IWT) Committee Meeting	Using Dynamic Simulation as a Flight Simulator on Denver Water's New WTP Tyler Nading CH2M - Jacobs	EXHIBIT HALL OPEN 10:00 AM to 5:30 PM	11:00
11:30	Beef Packing Plant's Wastewater Treatment Plant's Problems Solved with State Point Analysis Kurt Strein Self Employed	Monitoring Tools to Help Save Time & Money While Managing Changing Water Sources Amanda Scott Suez Water Technologies and Solutions Analytical Instruments	Challenges of Dialing in New Technologies ? The Ups and Downs of Ceramic Membranes Stephanie Sansom Parker Water & Sanitation District	Winning the War Against Wipes Dave Barkey JWC Environmental, LLC	Biosolids Improvements at the City of Las Vegas WPCF: Blending, Digesting, Turbocharging Michelle Peters Stantec		Designing a WTP for Emergency Hydraulic Scenarios and Operational Flexibility Carmella Caltagirone Burns & McDonnell		11:30
12:00	RMSAWWA BUSINESS LUNCHEON & AWARDS 12:00 PM to 1:30 PM Rooms 205 / 207					Exhibit Hall Lunch 12:00 PM to 1:30 PM Exhibit Hall			12:00
1:00									1:00
Room	ROOM 108 Moderator: Hannah Wilner	ROOM 109 Moderator: Sarah Reeves	ROOM 110 Moderator: Jacqueline Rhoades	ROOM 111 Moderator: Stephanie Segler	ROOM 112 Moderator: Diane Monahan	ROOM 113 Moderator: Bryan Coday	ROOM 106 Moderator: Sarah Dominick	Room	
Session	Session 20: CIP Planning	Session 21: Wastewater Regulations	Session 22: Water Treatment Technology	Session 23: Collection/Distribution	Session 24: Wastewater Potpourri	Session 18 B IWT Special Session	Session 26: Reuse	Session	
1:30	Winning Public Approval for a Major Water Reclamation Facility (WRF) Upgrade in Durango, CO Patrick Radabaugh Dewberry	Potential Impacts of US EPA Coliphage Criteria on Wastewater Treatment and Reuse Thomas Worley-Morse Hazen and Sawyer	South Adams County is Going Soft - Evaluation of Pellet Softening as a Viable Hardness Removal Technology John Meyer Carollo Engineers	Metro Wastewater Reclamation District Lift Stations ? When is it Time to Replace vs Rehabilitate? Steve Ravel Mott MacDonald	Struvite Initiative - Cost Effective Alternate Chemical Solution Stacey Walker Littleton/Englewood WWTP	Applied Research & Development Shark Tank • Big data management • Disinfection of emerging microbial contaminants • Carbon management • Improving sludge settling • Anaerobic digestion enhancements, and • Biogas conditioning for energy recovery	Direct Potable Reuse In Colorado: The WaterReuse Colorado DPR Project and PureWater Colorado Demonstration John Rehring Carollo Engineers	TAPPING CONTEST & OPS CHALLENGE DEMO Location: Outside, Adjacent to the Outdoor Exhibit Area 1:30 PM to 4:30 PM	1:30
2:00	Doing More With Less ? Leveraging Existing Assets to Manage Capital and Operating Costs Ron Latimer Hazen and Sawyer	Incentives That Work ? Fast-Tracking Better Water Quality Dan DeLaughter South Platte Water Renewal Partners (formerly L/E WWTP)	Dissolved Air Flotation Process Optimization for DBP Precursor Removal using Jar Testing and Qualitative Metrics Richard Huggins SGM	Water Pump Stations - Condition Assessment and Life Cycle Planning Marshall Meyer Murraysmith, Inc.	Effect of TDS on Activated Sludge Performance and Effluent Toxicity Jurek Patoczka Mott MacDonald		From Conceptual Design to Full-Scale: A Case Study From Virginia on Implementing Potable Reuse Tyler Nading CH2M - Jacobs		2:00
2:30	Non-Destructive Assessment Options for Asbestos Cement Pipe Lisa Douglas Ace Pipe Cleaning, Inc.	Case Studies Evaluating Policy 17-1 for Wastewater Treatment Facilities Michael Syverson Dewberry	Managing Treatment Chemical Hexavalent Chromium Levels at Denver Water's Planned Northwater Plant Phil Brandhuber HDR	Dealing with Both Peaks and Valleys - Pump Station Upgrade Design John Scheri Mott MacDonald	Recent Trends in Industrial Wastewater Treatment in the Food and Beverage Industry? Kevin Conroy Tetra Tech		Bryan Coday Carollo Engineers		Taking IPR from Concept to Reality in Florida: Clearwater Groundwater Replenishment Approaches the Construction Phase Dave MacNevin Tetra Tech
3:00	Session 27: Energy Efficiency Moderator: EJ Katsoulas	NETWORKING BREAK Exhibit Hall				Session 25: Leaders at All Levels Moderator: Jamie Langer			3:00
3:30	Power Reduction through Process Efficiency Greg Farmer South Platte Water Partners	Affordable Nutrient Compliance at Your Own Pace Matt Gough HDR	Shock 'n Drop vs Traditional Chemical Flocculation...A Case Study Comparing Two Spent Brine Treatment Alternatives Eric Dole Hazen and Sawyer	Three City of Aurora Digital Projects that Save Time and Money and How to Get Technology Naysayers on Board Sarah Young Aurora Water	Air Ionization System Odor Control Performance/Operations and Maintenance Study Dennis Tulenko Trans-Tech Energy and Environment	Leaders at all Levels Jamie Langer Parker Water and Sanitation District Dan Freedman, Stantec Ashley Bradney, HDR	Non-potable Reuse ? Getting Squeezed Out in Favor of Potable Reuse? Allegra da Silva Brown and Caldwell	Student Poster Competition 3-5:30	3:30
4:00	Saving Energy and Money through Better Wastewater Treatment Plant Mixing Jim Fischer Xylem, Inc.	Managing Nutrients at the Louisville WWTP to Ensure Compliance with Policy 17-1 Patrick Radabaugh Dewberry	A Regional Solution for Lime Residuals Reclamation: Turning CaCO3 into \$\$ in the City of Dayton, OH Deborah Herman Tetra Tech, Inc.	The Sh't No One is Talking About (But Should Be) Kali Gerhardt Nicor, Inc.	Copper and Zinc in Municipal Plants Effluent - Removal and Limit Mitigation Jurek Patoczka Mott MacDonald		Mitigating Widespread, Bio-active Pesticides in an Indirect Potable Reuse Model Michael Watts Garver		4:00
4:30 - beyond	TOP OPS SHOWCASE 4:30 to 6:00 PM Location: Exhibit Hall			NETWORKING NIGHT W/DUELING PIANOS 6:00 PM - 9:00 PM Location: Hyatt					

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Wednesday, September 19th

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REGISTRATION 7:00 AM - 5:00 PM Location: Ballroom Pre-function Area									
Room	ROOM 108 Moderator: Eddie Hernandez	ROOM 109 Moderator: Cole Sigmon	ROOM 110 Moderator: Ryan Rhoades	ROOM 111 Moderator: Karen Burgi	ROOM 112 Moderator: Jeff Oxenford	ROOM 113 Moderator: Dan Freedman	ROOM 106 Moderator: Bud Spillman	ROOM 102	Room
Session	Session 28: Laboratory Practices	Session 29: Phosphorus Removal	Session 30: Source Water Control	Session 31: Collection/ Distribution Tech	Session 32: Management	Session 33: Nitrogen Removal	Special: Operator Training	Committee Meetings	Session
7:00									7:00
8:00	Late Start	Using Whole Plant Evaluations in Determining the Optimum Phosphorus Management Approach Steve Tamburini CH2M-Jacobs	Correlating Watershed Remote Sensing Observations with Source Water Quality W. Josh Weiss Hazen and Sawyer	Between a Track and a Hard Place - Thrust Restraint Alternatives in a Constrained Location Keith Bushdiecker HDR	Water System Development Charges Tailored to Land Use (Its More than Just Meter Size) John Wright Raffelis Financial Consultants	Maximizing Nitrogen Removal with Existing Infrastructure John Fortin Hazen and Sawyer	Intro What's Brewing at Anheuser Busch Kim Jacobs Anheuser Busch	RMWEA Lab Practices Committee Richard MacAlpine MWRD	8:00
8:30	Great Models Come from Great Data - Generating and Analyzing Plant Influent Data to Develop Process Models Shahid Malik South Platte Water Renewable Partners	Total Phosphorus Effluent Below 100 Micrograms per Liter: The Flamingo WRC Case Chris Machado Stantec	Application of Robust Modeling Process to Evaluate Impacts of Infrastructure Outages on Water Supply System Performance Chip Paulson Stantec	New Conditions for Acceptance of Cavitation in Hydraulic Transient Analysis Fletcher McKenzie AECOM	Experiencing the Rebranding Process and Developing Innovative Internal Communication Programs Kacie Allard South Platte Water Renewal Partners (formerly L/E WWTP)	Improving Denitrification, a Boulder Story Brad Janoka City of Boulder	Confined Spaces Kris Graham United Rentals	Water Utility Council Serenity Valdez ECCV	8:30
9:00	Interactive Lab Trivia Richard MacAlpine & John Downey MWRD	Lessons Learned from Implementing Nutrient Recovery at Water Resource Reclamation Facilities Bryan Atieh Hazen and Sawyer	Reducing Algae Water Quality Risks (T&O, Treatment, and Toxins) with a Data Driven Monitoring and Management Approach Erik Rosenfeldt Hazen and Sawyer	Automated Meter Data and Simulation of Water Demand Jerry Edwards, Bohannan Huston, Inc Dan Moore, City of Greeley	A Hard Topic: How Community Outreach Impacted a District's Future John Ennis SACWSD	Santa Fe's Preparation for Unprecedented Low Effluent Nutrient Limits Alan MacGregor City of Santa Fe			9:00
9:30	NEW FOR 2018: Exhibit Hall Mobile Sessions								9:30
10:00	Networking Break, Exhibit Hall								10:00
10:30	Common Laboratory Issues, Fixes, and Statistics Steven Polaskey City of Boulder	Making Efficient Use of Chemical Phosphorus Removal to Achieve Low Level Phosphorus Limits: Helena WWTP Example John Kuosman Garver, LLC	Taste and Odor Removal with Ozone and Biofiltration Emily Huth Burns & McDonnell	Embedded Energy Lost in Distribution System Leaks...A California Energy Commission Funded Case Study Eric Dole Hazen and Sawyer	Partnership Programs - Optimization and the Protection of Public Health (Part 1) Todd Brewer American Water Works Association	Our Blowers Are Too Large! We're Wasting Too Much Energy!...Hmmm...Maybe Not! Ken Brischke AECOM		RMSAWWA Water Treatment Committee Jacqueline Rhoades Hazen & Sawyer	10:30
11:00	What's Brewing in Your New Pipe? Sherry Scaggiari City of Aurora	A Case Study of Process Intensification Alternatives at the Superior Wastewater Treatment Facility (WWTF) Patrick Radabaugh Dewberry	High Nitrate, High Stakes - Burlington Water Quality Improvements Allyson Junker Merrick & Company	Force Main Assessment Program Development and Inspection: A Case Study in Baltimore, MD Amy Bley RJN Group, Inc.	Partnership Programs - Optimization and the Protection of Public Health (Part 2) Todd Brewer American Water Works Association	Aeration Considerations in the Design and Operation of Biological Nutrient Removal Processes Joe Rohrbacher Hazen and Sawyer	Pump Operations Kent Knight Arvada Pump Co.	ACE19 Host Committee Sean Lieske City of Aurora	11:00
11:30	Creating a QA/QC Program from Scratch Danny McCausland Metro Wastewater Reclamation District(MWRD)	Protecting Biological Phosphorous Removal from Rapid and Unforeseen Wastewater Changes Craig Anderson Murraysmith, Inc.	Wildfires and Extreme Weather Events: Preparing for the Future William Becker Hazen and Sawyer	Putting Manhole Infiltration in the Crosshairs Joseph Siwek Tetra Tech	Zeroing in on Supply Side Conservation - Success in the City of Montrose Tory Wagoner Cavanaugh & Associates, P.A.	The World's Two Largest Membrane Aerated Biofilm Reactors Matthew Reeve Suez Water Technologies & Solutions			11:30
12:00	Exhibit Hall Lunch 12:00 PM - 1:00 PM (Afternoon sessions start at 1pm)								12:00
Room	ROOM 108 Moderator: Richard MacAlpine	ROOM 109 Moderator: Deena Davidson	ROOM 110 Moderator: Angela Goodman	ROOM 111 Moderator: Kelly Loyd	ROOM 112 Moderator: Sarah Dominick	ROOM 106 Moderator: Bud Spillman	ROOM 102 Committee Meetings	Room	
Session	Session 34: Laboratory Practices	Session 36: Biosolids Dewatering and Potpourri	Session 37: Water Potpourri	Session 38: Collection/ Distribution Piping	Session 39: Special Session- Long Range Planning for Denver Water	Special Session: Operator Training	Committee Meetings	Session	
1:00	Parker Water and Sanitation District Corrosion Control Study Ben Emerson Parker Water and Sanitation District	Biosolids Stabilization: Clarifying the 503 Regulation Requirements Adam Parmenter HDR	New Developments with Microfiltration/Ultrafiltration Understanding Non-Proprietary Systems Michael Bourke Wigen Water Technologies	Slip Lining Major Interceptor Sewers at the Littleton Englewood Wastewater Treatment Facility Saves Time and Money Michael Middleton Ingenium Engineers	Beyond the Crystal Ball: State of the Art Long-Range Water Planning Sarah Dominick, Laurina Kaatz, Mitch Horrie Denver Water	Operator Math Chris Giesting City of Loveland 1:00 - 1:45	In Line Instrumentation Ad Hoc Committee Ian Meyers MWRD	1:30	
1:30	How to Write and Implement Great Standard Operating Procedures Susan Oster City of Aurora	Volute Thickening and Linear Motion Mixing: A Tale of Two Technologies Clay Rahn HDR, Inc.	Baffled by Water Treatment Plant Design? Try CFD. Hilary Feier Jacobs	An Integrated Wastewater System Approach Carlos Wright & Rob Paraggio Colorado Springs Utilities	Project Delivery-Letting Consultants In Sarah Dominick, Denver Water Kerry Meyer & Ashley Waldron Jacobs	Operator Math Chris Giesting City of Loveland Continued to 1:45	RMWEABiosolids Committee Jim Johnson MWRD	2:00	
2:00	What's Brewing with Detection Limits? Melissa Mimna City of Boulder	Upcycling Steel Residuals for Phosphorous and Sulfur Recovery in Anaerobic Digestion Alejandro Caicedo Ramirez University of Colorado, Boulder	AMI, Too Expensive or Too Good To Be True? Alicia DuPree City of Aurora Water Department	Using Multi Sensor Inspection (MSI) Platform System Helps Provide Solutions Randy Brodner RJN Group, Inc.	Levels of Service for Water Supply Reliability and Risk Bob Peters & Jeff Bandy Denver Water	Operator Chemistry Jeff Oxenford Oxenford Consulting 1:45 - 2:30	Professional Wastewater Operators (PWO) Committee Dave Lewis Direct Discharge Consulting, LLC	2:30	
2:30	Moderator: Alex Yavich Session 35: Management & Optimization of Water Treatment Operations								3:00
3:00	Optimizing Water Treatment Operations for Increasing NOM Concentrations in Surface Water Supplies Alex Yavich Optimization Solutions, Inc.	Solar Heated Thermal Floor for Enhanced Biosolids / Sludge Drying Angelo Chialva HEAT2HYDRO, INC.		Bend's Plant Interceptor ? Extending the Life of the City's Primary Means of Conveyance Robert Lee Murraysmith	Adaptive Planning for Water Systems Greg Fisher & Sarah Dominick Denver Water	Laboratory 3:00 - 4:00 Regulations 4:00 to 4:30 Sherry Scaggiari City of Aurora	Joint Operators Training Conference Committee Dave Lewis Direct Discharge Consulting, LLC	3:30	
3:30	Management and Optimization of Operations at the City of Fort Wayne, IN Alex Yavich Optimization Solutions, Inc.	High Efficiency Dewatering and Partial Drying: Paving the Road for Netzero Waste Resource Recovery Facility Brad Mrdjenevich Veolia		UV-Light Cured CIPP Lining for Pipeline Rehabilitation Jeff Maier C&L Water Solutions, Inc.	Incorporating One Water and Reuse Tools into Denver Water's System Rachel Pence, Denver Water Stephanie Hurtado Jacobs		2018 JAC Conference Debrief: Greg Woodward, Stantec; Ryan Rhoades, Hazen and Sawyer	4:00	
4:00	Conference Concludes								4:30 - beyond

**EXHIBIT HALL OPEN
9:30 AM to 1:00 PM**

**EXHIBIT HALL TEAR-DOWN
1 PM to 4 PM**