

	EXHIBITS	ALTERNATIVE DELIVERY	ASSET MANAGEMENT
Room	Exhibit Hall	River	Bison
Mods			
7:30	Joint Young Professionals Breakfast (Emerald V)		
9:00	Opening Session (Exhibit Hall)		
11:00	Exhibitor Hour (Exhibit Hall)		
12:00	KWEA Awards Luncheon (Sunflower Ballroom) – OR – KsAWWA Awards Luncheon & Annual Business Meeting (Heritage Hall)		
1:30		<p>Primer on Alternative Delivery Methods</p> <p>Brian Lines, University of Kansas</p>	<p>Application of Machine Learning in Sanitary Sewer Condition Assessment for Raytown, MO</p> <p>Elango Thevar, NEER Technologies; Jose Leon Jr, City of Raytown, MO</p>
2:15	<p>Exhibits Open</p> <p>1:30 – 2:30 KsAWWA Best Tasting Tap Water Contest</p>	<p>The Alternative to Uncertainty: How Alternative Delivery is Built for Water Infrastructure</p> <p>BJ Peterson, McCarthy Building Companies</p>	<p>Facility Mapping Solutions: What's Beneath Your Feet?</p> <p>Colleen Connor &amp; Benjamin Grover, GBA</p>
3:00		Refreshment Break (Exhibit Hall)	
3:30	<p>2:15 – 5:00 Environmental Excellence Competition</p> <p>3:00 – 3:30 Refreshment Break</p>	<p>Wolcott Wastewater Treatment Plant Upgrade: Granular Activated Sludge</p> <p>Brandon Coleman, HDR, Inc.</p>	<p>The Small Community Assistance Planning (SCAP) Asset Management Tool: A Free Resource for Utilities</p> <p>Brian Bohnsack &amp; Jeff Severin, WSU Environmental Finance Center</p>
4:15		<p>Design-Build Project Results in Affordable Nutrient Removal and Expanded Reuse</p> <p>Eric Farrow, HDR, Inc.; Jeff Keller, Burns &amp; McDonnell</p>	<p>Water Storage Tank/Tower Coatings</p> <p>Jamie Mays &amp; Tony Grant, Maguire Iron Company, Inc.</p>
5:00	Exhibitor Meet & Greet (Exhibit Hall)		
6:30	Joint Meet & Greet (Kay McFarland Japanese Garden)		

	INDUSTRIAL PRETREATMENT	JOINT TOPICS	LEADERSHIP & DIVERSITY	WATER ISSUES
Room	Shawnee A	Wheat	Pioneer	Homestead
Mods				
7:30	Joint Young Professionals Breakfast (Emerald V)			
9:00	Opening Session (Exhibit Hall)			
11:00	Exhibitor Hour (Exhibit Hall)			
12:00	KWEA Awards Luncheon (Sunflower Ballroom) – OR – KsAWWA Awards Luncheon & Annual Business Meeting (Heritage Hall)			
1:30	Suspended Air Flotation for Clarification and Solids Thickening (followed by plant tour at 3:30 p.m.)  John Barsotti, Heron Innovators	Chemical Feed Systems 101  James Bellerive, Haynes Equipment Co, Inc.; Mike Mullarkey, Blue-White Pumps	Jumpstart Your Team's Dynamics for Greater Success by Understanding Different Personalities  Molly Saunders, Shockey Consulting, LLC	On-Site Sodium Hypochlorite Generation: A Safe and Reliable Disinfection Alternative  Gunnar Thordarson, PSI Water Technologies, Inc.
2:15	Backtracking a Slug Discharge: From Treatment Plant to Industrial User  Paul Bixel, City of Olathe	Optimizing Membrane WTP Operations With Ceramic Technology  Jonathan Pressdee & Kelly Lange-Haider, Nanostone Water, Inc.	Building Diversity: Doing What's Right, Not What's Easy  Kerrie Greenfelder, Burns & McDonnell	Sustainability as Strategy: The Water-Energy Nexus and Sustainability-Driven Innovation  Tyler Elm, BlueInGreen
3:00	Refreshment Break (Exhibit Hall)			
3:30	Wasted Beer: An Unexpected Waste Stream Due to COVID-19  Natalie Wilderom, McConnell AFB	Customer Affordability in Small Communities  Michelle DeHaven, WSU Environmental Finance Center	Leadership for Diversity  Jeff Severin, WSU Environmental Finance Center	Impact of Salina's Military Base Closure... Groundwater Contamination  Martha Tasker, City of Salina
4:15	Conducting Remote Inspections During a Pandemic  Ashley Taylor, City of Wichita; Natalie Wilderom, McConnell AFB	Chemical Replacement: Managing pH with Carbon Dioxide in Place of Strong Acids  Chris Milligan, BlueInGreen	How to Recognize Systemic Bias and Exclusion and How to Actively Promote Diversity and Inclusion  Martha Silks, LRE Water	Topeka Disinfection: Where and Why to Use Ozone  Nathan Dunahee, Burns & McDonnell
5:00	Exhibitor Meet & Greet (Exhibit Hall)			
6:30	Joint Meet & Greet (Kay McFarland Japanese Garden)			

	ASSET MANAGEMENT	COLLECTION SYSTEMS	DRINKING WATER	GOVERNMENT AFFAIRS
Room	Bison	Shawnee A	River	Pioneer
Mods				
7:30	<b>KWEA Board and Committee Chair Breakfast and Annual Business Meeting (Emerald III)</b> <b>KSAWWA OTC Meeting (Emerald IV)</b> <b>Golden Manhole Breakfast (Emerald V)</b>			
8:30	<p>An Integrated Approach to Facility Planning and Design-Build Implementation</p> <p>Adam Bogusch, Burns &amp; McDonnell</p>	<p>Avoiding Dangerous Curves with Pressure Sewer Systems</p> <p>Keith McHale Environment One Corporation</p>	<p>Olathe WTP2 Alternative Disinfection Project</p> <p>Jacob Schultze, Black &amp; Veatch; Lorrie Hill, City of Olathe</p>	<p>KDHE Water Infrastructure Financing</p> <p>William Carr, KDHE</p>
9:15	<p>Asset Management in the Day-to-Day of a Maintenance Department</p> <p>Paul Crocker, Board of Public Utilities</p>	<p>Understanding the New Paradigms in Planning</p> <p>Allison White &amp; Dustin Hill, Burns &amp; McDonnell</p>	<p>Dealing with Taste and Odor Issues From Watershed to Tap</p> <p>Aaron Robison &amp; David Carani, HDR, Inc.</p>	<p>Integrated Planning for JCW: The What, Why, and How</p> <p>Tami Lorenzen, Johnson County Wastewater</p>
10:00	<b>Refreshment Break (Exhibit Hall)</b>			
10:30	<p>Advances in Stormwater Risk Planning</p> <p>Heather Schmidt, Johnson County; Matthew Scott, Black &amp; Veatch</p>	<p>Lee's Summit Downtown Interceptor Study</p> <p>Taylor Christmas HDR, Inc.</p>	<p>Monroe, LA: A WTP Expansion Two Decades in the Making</p> <p>Rachel Drain, Burns &amp; McDonnell</p>	<p>Lead and Copper Rule Revisions Town Hall</p> <p>Cathy Tucker-Vogel KDHE</p>
11:15	<p>Large and Critical Valve Program Best Practices</p> <p>Deryck Freudeman, Xylem-Wachs Water Services</p>	<p>Providing Sanitary Sewer Service to Low-Income Community for Environmental Protection</p> <p>Travis Heier, HDR &amp; Bradley Allbritton, Taney Co Regional Sewer District</p>	<p>Monitoring High-Frequency Data From a Buoy in Clinton Reservoir, KS, to Determine Optimal Drinking Water Intake Depths</p> <p>Rebecca Kessler, Kansas Biological Survey</p>	
12:00	<b>Joint Luncheon (Exhibit Hall)</b>			

	JOINT TOPICS	K&AWWA OTC	WATER DISTRIBUTION	WASTEWATER OPERATIONS
Room	Shawnee B	Shawnee C	Wheat	Homestead
Mods				
7:30	<b>KWEA Board and Committee Chair Breakfast and Annual Business Meeting (Emerald III)</b> <b>KSAWWA OTC Meeting (Emerald IV)</b> <b>Golden Manhole Breakfast (Emerald V)</b>			
8:30	<p>Air Valves and Check Valves on Small Systems</p> <p>Thomas Bumgardner, Innovative Engineered Equipment</p>	<p>Water Certification Prep (Part One)</p> <p>Joe Cribbs, WaterOne</p>	<p>Lead Service Line Replacement: Options for Replacement and Financing</p> <p>Nicholas Willis, WSU Environmental Finance Center</p>	<p>Nitrification in Cold Weather: A Two-Year Study</p> <p>Ben Shakman, Triplepoint Environmental</p>
9:15	<p>Building Resilient Water Operations with Cybersecurity</p> <p>Carmen Garibi, Burns &amp; McDonnell</p>	<p>Water Certification Prep (Part Two)</p> <p>Joe Cribbs, WaterOne</p>	<p>A Case Study on Lead in a Small Community</p> <p>Travis Levitt &amp; Rachel Drain, Burns &amp; McDonnell</p>	<p>Troubleshooting Your Pump Station 101</p> <p>Brad Saul, Mid America Pump</p>
10:00	<b>Refreshment Break (Exhibit Hall)</b>			
10:30	<p>New Backwash and Underdrain System Improves Operation of 92-Year-Old Waukegan Filtration Plant</p> <p>Don Tyson &amp; Peter Levorson, WesTech Engineering Inc.</p>	<p>Water Math (Part One)</p> <p>Joe Cribbs, WaterOne</p>	<p>The Role of Smart Tanks in Distribution Water Quality Management</p> <p>John Koch, UGSI Solutions</p>	<p>Using Oxygen to Oxidize Sulfates, Control Odor, and Manage Corrosion in Collection Systems</p> <p>Chris Milligan, BlueInGreen</p>
11:15	<p>The Impact of Turbidity on UF Membrane Fouling</p> <p>Ana Calderon, SUEZ</p>	<p>Water Math (Part Two)</p> <p>Joe Cribbs, WaterOne</p>	<p>Data Science Principles of Service Line Inventory and Replacement</p> <p>Eric Schwartz &amp; Ian Robinson, BlueConduit</p>	<p>Process Optimization Can Improve BNR and Reduce Energy and Chemical Cost All Together</p> <p>Payal Shah, Xylem Inc.</p>
12:00	<b>Joint Luncheon (Exhibit Hall)</b>			

	ASSET MANAGEMENT	COLLECTION SYSTEMS	DRINKING WATER	LABORATORY
Room	Bison	Shawnee A	River	Pioneer
Mods				
1:30	<p>Small Diameter Water Main Replacement Prioritization Using GIS Technology</p> <p>Jason Beyer, WaterOne</p>	<p>Real-Time Control and Optimized Storage for Affordable Peak Flow Management</p> <p>Mike Milius, Olsson</p>	<p>Lime Feed System</p> <p>Roopa Matole, HDR, Inc.; Denise Friday, City of Olathe</p>	<p>Response to an In-Lab Ethics Violation: Third Party Laboratory Audit – Lessons Learned</p> <p>Rebecca Lewis, City of Wichita</p>
2:15	<p>Asset Management for Water Storage Facilities</p> <p>Thomas Quammen, KLM Engineering</p>	<p>Round Grove Pump Station: City of Kansas City, MO</p> <p>Joslyn Townsend, AECOM</p>	<p>Using Progressive Design-Build to Deliver the Northwest Water Facility (NWWF)</p> <p>Ty McGown, Burns &amp; McDonnell; Bill Perkins, City of Wichita</p>	<p>Benchsheets: Nemesis or Hero of the Lab?</p> <p>Rebecca Lewis, City of Wichita</p>
3:00	<b>Refreshment Break (Exhibit Hall)</b>			
3:30	<p>Demystifying Asset Management: Review of MPUA's Collection System Asset Management Tool Kit</p> <p>Lacey Hirschvogel, MPUA; David Carani, HDR, Inc.</p>	<p>Manhole Rehabilitation Practices</p> <p>Jeff Maier, Garver</p>	<p>Transient Analysis</p> <p>Roopa Matole &amp; Amy Carter, HDR, Inc.</p>	<p>Activated Sludge Microbiology: It's All About the Bugs! (Part 1)</p> <p>Sean Scuras, Garver</p>
4:15	<p>Field Perspective of Equipment Condition Assessment for a New Asset Management Program</p> <p>Nick Kuzmyak, Bartlett &amp; West, Inc.</p>	<p>Rehabilitating Concrete Structures</p> <p>John Sierzega, Sherwin Williams</p>	<p>Proactive Corrosion Control Study: Above and Beyond in Olathe, KS</p> <p>Emily Tummons, Black &amp; Veatch; Nina Hubbard, City of Olathe</p>	<p>Activated Sludge Microbiology: It's All About the Bugs! (Part 2)</p> <p>Sean Scuras, Garver</p>
5:30	<b>Joint Awards Banquet Reception (Emerald Ballroom)</b>			
6:30	<b>Joint Awards Banquet (Emerald Ballroom)</b>			

	JOINT TOPICS	KsAWWA OTC	TEAM MANAGEMENT	WASTEWATER OPERATIONS
Room	Shawnee B	Shawnee C	Wheat	Homestead
Mods				
1:30	<p>Eatin' Pizza and Learnin' a Little Something About Kansas Water</p> <p>Tracy Streeter, Burns &amp; McDonnell; Tom Stiles, KDHE</p>	<p>Coagulation/Flocculation</p> <p>Ben Fox, D&amp;F Services</p>	<p>Creating a Framework for Building Tomorrow's Utility Workforce: The City of Wichita Story</p> <p>Tracy Streeter, Burns &amp; McDonnell; Laura Quick, City of Wichita</p>	<p>Small Footprint Energy Efficient Nutrient Removal: Design of the First AGS WWTP in the US</p> <p>Sean Scuras, Garver</p>
2:15	<p>The Current State of Construction Pricing and Supply Chain Management</p> <p>Michaela Rempkowski, McCarthy Building Companies</p>	<p>Disinfection Chemistry/DBPs</p> <p>Ben Fox, D&amp;F Services</p>	<p>Building Community Support for Wastewater Projects Through Strategic Public Engagement</p> <p>Ann Frame Hertzog, Shockey Consulting, LLC</p>	<p>Oxygen Transfer Performance, Biological Performance, and Microbial Population Dynamics of Activated Sludge Processes</p> <p>Chris Milligan, BlueInGreen</p>
3:00	<b>Refreshment Break (Exhibit Hall)</b>			
3:30	<p>Shovel Ready: The Contractor's Role in WIFIA Funding</p> <p>Michaela Rempkowski, McCarthy Building Companies</p>	<p>Lime Softening and Recarbonation</p> <p>Brad Ebinger, WaterOne</p>	<p>Project Team Health Evaluation: A Model-Based Approach for Leaders to Assess and Improve</p> <p>Jennifer Russell, Garver</p>	<p>Grit Settling Velocity: A Visual Comparison of Clean Sand and Wastewater Grit</p> <p>Jeff Sober, Garver</p>
4:15	<p>Kansas Water Office Update</p> <p>Eric Unruh, Kansas Water Office</p>	<p>Overview of Membrane Operations and Maintenance</p> <p>Brian Williams, City of Olathe</p>	<p>Why Be Nice? Customer Service at Public Water Utilities</p> <p>Michelle DeHaven, WSU Environmental Finance Center</p>	<p>WaStop Check Valves for Stormwater and Wastewater</p> <p>Tom Bumgardner, Innovative Engineered Equipment</p>
5:30	<b>Joint Awards Banquet Reception (Emerald Ballroom)</b>			
6:30	<b>Joint Awards Banquet (Emerald Ballroom)</b>			

	ABC TEST PREP	BIOSOLIDS / SOIL HEALTH	COLLECTION SYSTEMS
Room	Shawnee A	River	Bison
Mods			
7:00	<b>KsAWWA Breakfast (Emerald IV)</b> <b>KWEA SSSSS Breakfast (Emerald III)</b>		
8:00	Collections & Wastewater Treatment Test Prep  Joe Foster, EPEC; Pat Flynn, Pittsburg State University	Extracting Active Enzymes From Soils as a Measure of Bioremediation Potential  Wambura Chacha, University of Kansas	The Seductive Lure of Depth-Only Measurements for Assessing I&I  Jay Boyd, ADS Environmental Services
8:45		Novel System for Phosphate Sequestration and Biogas Capture From Anaerobic Digestate  Mudit Gangal, Ovivo USA LLC	Holistic Trenchless Rehabilitation for Wastewater Collection Systems  Jeff Maier, Garver
9:30	<b>Refreshment Break</b>		
9:45	Collections & Wastewater Treatment Test Prep  Joe Foster, EPEC; Pat Flynn, Pittsburg State University	Experimentation and Real World Challenges of Treating PFAS-Laden Sludge  Sudhakar Viswanathan, Veolia	Winning the War Against Wipes  Chris Downey, JCW Environmental
10:30		Long-Lasting Biosolids Odor Control Using Peroxide Regenerated Iron Technology (PRI-TECH®)  Michael Nelson, USP Technologies	Basics of Pipeline Corrosion and Protections of Ductile Iron Pipe  John Simpson, McWane Ductile
11:15		Why You Should Consider Aerobic Thermophilic Digestion for Your Biosolids Treatment  Robert Wooldridge, Thermal Process Systems	Everything You Wanted to Know About Air Valves  Kim Sorensen, ARI USA
12:15	<b>Conference Adjournment and Prize Drawing (Registration Area)</b>		
1:00	<b>KDHE Water &amp; Wastewater Operations Exam (Pioneer) – OR – ABC Testing (Shawnee B&amp;C)</b>		

	KsAWWA HOT TOPICS	KWEA HOT TOPICS	TECHNOLOGY
Room	Homestead	Pioneer	Wheat
Mods			
7:00	<b>KsAWWA Breakfast (Emerald IV)</b> <b>KWEA SSSSS Breakfast (Emerald III)</b>		
8:00	<p>Improved Performance With No Physical Changes, Forecast Informed Reservoir Operation (FIRO)</p> <p>Mike McMahon &amp; Eric Dove, HDR, Inc.</p>	<p>Ammonia Permits and Lagoons: Options Available For Meeting Future Limits</p> <p>Patrick Ely, Nexom</p>	<p>Optimizing Two-Stage Anaerobic Digestion Via Recycle From an Aerobic Digester</p> <p>Justin Wippo, Thermal Process Systems</p>
8:45	<p>Introduction to Kansas Water Rights: A Municipal Perspective</p> <p>Daniel Clement, Burns &amp; McDonnell</p>	<p>Build a High-Performance, Resilient Organization Through Strategic Planning</p> <p>Molly Saunders, Shockey Consulting, LLC</p>	<p>Carbon Management Alternatives to Lower Energy and Increase Resource Recovery</p> <p>Jim Fitzpatrick, Black &amp; Veatch</p>
9:30	<b>Refreshment Break</b>		
9:45	<p>A Review of Risk-Reducing, Safety-Enhancing Design and Field Technologies</p> <p>Elizabeth Rodgers &amp; Michael Etheridge, Black &amp; Veatch</p>	<p>Use It or Lose It: Biogas Storage and Use</p> <p>Yasmine Boudhaouia-Meehan, WesTech Engineering, Inc.</p>	<p>Inducing Granulation in Activated Sludge BNR Systems to Improve Settling</p> <p>Jim McQuarrie, Tetra Tech</p>
10:30	<p>Expanding for the Future: A Case Study of the Gardner WTP Expansion</p> <p>Dana Weir &amp; Jason Gardner, Burns &amp; McDonnell</p>	<p>PFAS Reduction in Galesburg, IL</p> <p>Nathan Dunahee &amp; Jeff Barnard, Burns &amp; McDonnell</p>	<p>Construction, Commissioning, and Start Up of the World's First ABNR™ Facility</p> <p>Jordan Lind, CLEARAS Water Recovery</p>
11:15	<p>Lead and Copper Rule Revisions: What Does It Really Mean for My Kansas Water Utility</p> <p>Matt Say &amp; David Carani, HDR, Inc.</p>	<p>Tracking the SARS CoV-2 Pandemic With Wastewater Infrastructure</p> <p>Belinda Sturm, University of Kansas; Thomas Stiles, KDHE</p>	<p>Zero2Waste® Gravity Filter Systems: Water... Every Drop Counts!</p> <p>Mark Romers, Filter Magic/ICS</p>
12:15	<b>Conference Adjournment and Prize Drawing (Registration Area)</b>		
1:00	<b>KDHE Water &amp; Wastewater Operations Exam (Pioneer) – OR – ABC Testing (Shawnee B&amp;C)</b>		