

# **27th Annual Billings Spring Water School for Water & Wastewater Operators & Managers March 5 - 7, 2019**

Sponsored by: Montana Environmental Training Center  
Montana Department of Environmental Quality

**TENTATIVE AGENDA - 2/12/19** - For More Information Please  
Contact METC at 406-265-3763 or via email at [metc@msun.edu](mailto:metc@msun.edu)

**TUESDAY, MARCH 5, 2019**

7:30 AM	<b>REGISTRATION</b>				
Location	Room 117 Lecture Hall A (Moderator: )				
8:00 AM	<b>Welcome to the 27th Annual Spring School</b> Karl Carlson, DEQ, Pete Boettcher, DEQ and Barb Coffman, METC <span style="float:right">0.025 Dual CECs</span>				
8:15 AM	<b>2018 Infrastructure Report Card</b> TBA <span style="float:right">0.150 Dual CECs</span>				
9:45 AM	<b>BREAK</b> (0.025 Dual CECs must attend classes right before and right after break to receive credit)				
	<b>Wastewater</b>	<b>Water &amp; Wastewater</b>	<b>Water</b>	<b>Certification Review</b>	
Location	Room 105 (Mod: )	Room 117 (Mod: )	Room 119 (Mod: )	Room 101	
10:00 AM	<b>Troubleshooting in Wastewater Treatment Plants</b>  Josh Viall, DEQ  <span style="float:right">0.100 WW CECs</span>	<b>Getting Back on Track - Using Coatings Technology to Reduce Downtime</b>  Eric Zimmerman, Sherwin Williams  <span style="float:right">0.100 Dual CECs</span>	<b>Potential Impacts of Forest Fires on Public Water Supplies</b>  Jim Stimson, DEQ  <span style="float:right">0.100 Water CECs</span>	<b>Welcome &amp; How to Take an ABC Exam</b> Karl Carlson, DEQ	
10:30 AM				<b>Source Water</b>	<b>Mechanical Plants</b>
11:00 AM	<b>Billings Wastewater Plant Upgrade - Update</b>  Randy Straus, City of Billings  <span style="float:right">0.100 WW CECs</span>	<b>Tracking Montana's Groundwater</b>  John LaFave, MBMG  <span style="float:right">0.100 Dual CECs</span>	<b>Emergencies &amp; Security of Public Water Supply Systems in Montana</b>  Kirk Yoder, DEQ  <span style="float:right">0.100 Water CECs</span>	<b>Water</b> Room 101	<b>Wastewater</b> Room 103
				<b>Source Water</b>	<b>Mechanical Plants</b>
11:00 AM				<b>Source Water</b>	<b>Mechanical Plants</b>
				Scott Patterson, DEQ <span style="float:right">No CECs</span>	Pete Boettcher, DEQ <span style="float:right">No CECs</span>
12:00 PM	<b>LUNCH (ON YOUR OWN)</b>				
	<b>Wastewater</b>	<b>Water &amp; Wastewater</b>	<b>Water</b>	<b>Water</b>	<b>Wastewater</b>
	Room 105 (Mod: )	Room 117 (Mod: )	Room 119 (Mod: )	Room 101	Room 103
1:00 PM	<b>Aeration vs Mixing</b>  Terry Campbell, DEQ  <span style="float:right">0.100 WW CECs</span>	<b>Groundwater Issues in Montana</b>  Kevin Chandler, MBMG  <span style="float:right">0.100 Dual CECs</span>	<b>What You Need to Know When Operating a Water System</b>  Scott Patterson, DEQ  <span style="float:right">0.100 Water CECs</span>	<b>Water Treatment</b>	<b>Wastewater Operation &amp; Maintenance</b>
2:00 PM	<b>Winds of Change: Livingston WRF Upgrade - The Prequel</b>  Brian Viall, AE2S  <span style="float:right">0.075 WW CECs</span>	<b>Understanding Chemistry in Water &amp; Wastewater</b>  Terry Campbell, DEQ  <span style="float:right">0.075 Dual CECs</span>	<b>Chemical Waivers: What's New</b>  Scott Patterson, DEQ  <span style="float:right">0.075 Water CECs</span>	<b>Water</b> Room 101	<b>Wastewater</b> Room 103
				Karl Carlson, DEQ <span style="float:right">No CECs</span>	Pete Boettcher, DEQ <span style="float:right">No CECs</span>
2:45 PM	<b>BREAK</b> (0.025 Dual CECs must attend classes right before and after break to receive credit)				
3:00 PM	<b>Enhancing Bio-P with Operations &amp; Brewery Waste</b>  Brian Viall, AE2S Mod: <span style="float:right">0.100 WW CECs</span>	<b>Current Status, Control Efforts &amp; Natural Spread of Invasive Mussels in Montana</b>  Sean Flynn, Montana FWP Mod: <span style="float:right">0.100 Dual CECs</span>	<b>City of Billings - Water Plant Tour</b>  Zoe Smith, City of Billings Moderator:  <span style="float:right">0.200 Water CECs</span>	<b>Security, Safety &amp; Administration</b>	<b>Troubleshooting Wastewater Treatment Plants</b>
4:00 PM	<b>Lagoon Based Treatment - What Can Be Achieved?</b>  Terry Campbell, DEQ Mod: <span style="float:right">0.100 WW CECs</span>	<b>Technology's Influence on the Water &amp; Wastewater Industry</b>  Andrea Zuidema, METC Mod: <span style="float:right">0.100 Dual CECs</span>		Kirk Yoder, DEQ  <span style="float:right">No CECs</span>	Josh Viall, DEQ  <span style="float:right">No CECs</span>
5:00 PM	<b>ADJOURN</b>				

**WEDNESDAY, MARCH 6, 2019**

Location	Wastewater Room 105 (Mod: )	Water & Wastewater Room 117 (Mod: )	Water Room 119 (Mod: )	Cert. Review - Water Room 101	Cert. Review - WW Room 103
8:00 AM	<b>What to Expect During an Operation &amp; Maintenance Inspection</b> Michele Marsh, DEQ 0.100 WW CECs	<b>Drinking Water Microbiology</b>  Tammy Jacobson, DEQ & Barb Coffman, METC 0.175 Dual CECs	<b>Corrosion Inhibition Chemistry</b> Joe Schmidt, Hawkins Water Treat. 0.100 Water CECs	<b>Practice Test</b>  Karl Carlson - DEQ No CECs	<b>Disinfection</b>  Josh Viall, DEQ No CECs
9:00 AM	<b>AOP &amp; Biofiltration</b> David Carlson, AE2S 0.075 WW CECs		<b>Road Map to DBP Compliance</b> Joe Schmidt, Hawkins Water Treat. 0.750 Water CECs		
9:45 AM	<b>BREAK</b> (0.025 Dual CECs must attend classes right before and after break to receive credit)				
	Wastewater (Mod: )	W & WW (Mod: )	Water (Mod: )	Cert. Review - Water	Cert. Review - WW
10:00 AM	<b>The Challenges &amp; Benefits of Establishing an Advanced Wastewater Treatment System</b> John McDunn, DEQ 0.100 WW CECs	<b>Wastewater Microbiology</b>  Barb Coffman, METC & Tammy Jacobson, DEQ 0.200 Dual CECs	<b>Montana Water Systems: How Many, What Kind, Treatment Types, etc.</b> Scott Patterson, DEQ 0.100 Water CECs	<b>Equipment Operation &amp; Maintenance</b>  Kirk Yoder, DEQ No CECs	<b>Sludge Disposal</b>  Pete Boettcher, DEQ No CECs
11:00 AM	<b>Meeting Strict Ammonia Limits with Lagoons</b> Craig Pozega, Great West Engineering 0.100 WW CECs		<b>Lead &amp; Copper Rule &amp; Sampling</b> Greg Montgomery, DEQ 0.100 Water CECs		<b>Wastewater Math</b> Michele Marsh, DEQ No CECs
12:00 PM	<b>LUNCH</b>				
	Wastewater Room 105 (Mod: )	Water & Wastewater Room 117 (Mod: )	Water Room 119 (Mod: )	Cert. Review - Water	Cert. Review - WW
1:00 PM	<b>Membrane Wastewater Plant Tour - Travel America - Laurel</b> (Travel on Your Own)	<b>Basics of Source Water Protection</b> Eric Sivers, DEQ 0.050 Dual CECs	<b>Assessing a PWS's Susceptibility to Potential Contaminant Sources</b> Carolyn DeMartino, DEQ 0.100 Water CECs	<b>Laboratory Analysis</b>  Tammy Jacobson, DEQ No CECs	<b>Wastewater Math</b>  Michele Marsh, DEQ No CECs
1:30 PM		<b>In-Stream Permitting</b> Jason Garber, DEQ 0.050 Dual CECs			
2:00 PM		<b>Chemical Safety &amp; Safety Data Sheets Using the Global Harmonized System</b> Dennis Eaton, Advanced Pump & Equip. 0.175 WW CECs	<b>Drinking Water Emergency Sampling Kits</b> Joel Felix, DPHHS 0.075 Water CECs		
2:45 PM	<b>BREAK</b> (0.025 Dual CECs must attend classes right before and right after break to receive credit)				
3:00 PM	<b>Safety for Water &amp; Wastewater</b> Greg Montgomery, DEQ Mod: 0.100 Dual CECs	<b>TBA</b> Mod: 0.100 Dual CECs	<b>Lead &amp; Copper: What is Next?</b> Sienna Meredith, EPA Mod: 0.100 Water CECs	<b>Water Math</b>  Karl Carlson - DEQ No CECs	<b>Laboratory Analysis</b> Pete Boettcher, DEQ No CECs
4:00 PM	<b>TBA</b> Mod: 0.100 WW CECs	<b>Cured in Place Piping - Watermain Renovation</b> Lonni Fleck & Jordan Mayer, Interstate Engineering Mod: 0.100 Dual CECs	<b>Need to Take Water to New Heights? Elevated Storage Considerations</b> Nate Weisenburger, AE2S Mod: 0.100 Water CECs	<b>Wastewater Safety</b> Pete Boettcher, DEQ No CECs	
5:00 PM	<b>ADJOURN</b>				

**THURSDAY, MARCH 7, 2019**

Location	<b>Wastewater - Room 105</b> Moderator:	<b>Water &amp; WW - Room 117</b> Moderator:	<b>Water - Room 119</b> Moderator:	<b>Cert. Review - Water</b> Room 101	<b>Cert. Review - WW</b> Room 103
8:00 AM	<b>Unmanned Aerial Systems for Pipeline Design</b>  Jarrett Hillius, Bartlett & West <b>0.100 WW CECs</b>	<b>Sample Collection, Preservation &amp; Lab Analysis</b>  S. Endy & J. VanCleave, Energy Labs <b>0.100 Dual CECs</b>	<b>Billings Lead Replacement Project</b>  David Carlson, AE2S <b>0.100 Water CECs</b>	<b>Water Distribution</b>	<b>Facultative &amp; Aerated Lagoons</b>
9:00 AM	<b>Design &amp; Construction of One of Montana's Largest Aerated Lagoons</b>  Laura Gundlach, M-M <b>0.075 WW CECs</b>	<b>Calibrating Lab Equipment</b>  Tammy Jacobson, DEQ <b>0.075 Dual CECs</b>	<b>Managing User Systems Water Additions in the Cloud</b>  Tim Penfield, Bartlett & West <b>0.075 Water CECs</b>	Karl Carlson, DEQ <b>No CECs</b>	Pete Boettcher, DEQ <b>No CECs</b>
9:45 AM	<b>BREAK</b> (0.025 Dual CECs must attend classes right before and right after break to receive credit)				
	<b>Water &amp; Wastewater - Room 117</b>			<b>Cert. Review - Water</b> Room 101	<b>Cert. Review - WW</b> Room 113
10:00 AM	<b>Why We Worry About Water: Waterborne Outbreaks - A Sanitarian's Perspective</b>  Nina Heinzinger, DPHHS Food & Consumer Safety  <b>0.200 Dual CECs</b>			<b>General Review &amp; Questions</b>  Karl Carlson, DEQ <b>No CECs</b>	<b>Pumps, Valves &amp; Blowers</b>  Josh Viall, DEQ <b>No CECs</b>
11:00 AM					<b>General Review &amp; Questions</b>  Pete Boettcher & Josh Viall, DEQ <b>No CECs</b>
12:00 PM	<b>27<sup>th</sup> ANNUAL BILLINGS SPRING WATER SCHOOL ADJOURNED</b>				
	<b>Thank You for Attending the 27<sup>th</sup> Billings Spring Water School and Your Support!! Please Travel Safely!!</b>				
1:00 - 5:00	<b>Certification Examinations</b> <b>Location: MSU-Billings City College Health Sciences Building Great Room</b> <b>Registration: 12:30 PM with Exams Administered from 1:00 - 5:00 PM</b>				