## 81st Annual Fall Water School for Water & Wastewater Operators & Managers

		♣	•
Sponsored by:	Montana Environmental Training Center  Montana Department of Environmental Quality	MSU - College of Engineering Montana Water Center	
	Tentative Agenda as of A	•	
	for Further Information Con	tact Barb Coffman	
	at (406) 781-2298 or barbara.c	offman@msun.edu.	

## Each Session Except Breaks & Vendor Show Must Be Stamped in Order to Receive Credit To Get Credit for Breaks & Vendor Show You Must Attend Sessions Right Before and After Each Break (Please note: NO CECs will be given for the Certification Review Sessions.)

		TUESDAY ~ O	ctober 7, 2014	,			
		B	ALLROOM A				
7:00 AM	Registration						
	Welcome to the 81st Annual Fall S	ome to the 81st Annual Fall School					
	Gretchen Rupp - MSU Civil Engineering, Wyatt Cross - Montana Water Center, Greg Butts - DEQ PWS, Bill Bahr - DEQ WWSRF, & Barb Coffman - METC  O.025 Dual CECs						
8:15 AM	Drinking Water and Wastewater Research at MSU-Bozeman			Certification Review - Ballroom D How to Take a Certification Exam  Julie Allen, DEQ			
				All Water and Wastewater Clas	sses No CECs		
					ion Review		
	Otto Stein, MSU-Bozeman		0.400 B 1.050	Water	Wastewater		
	Mod. Gretchen Rupp		0.100 Dual CECs	Ballroom D SDWA & General Water	Room 235		
9:15 AM	Utility Management for Operators			Terms	wastewater renns		
007				Terms	Bill Bahr, DEQ		
	TEEX			Julie Allen, DEQ All Classes 1-5	All Classes 1-4		
	Mod: Gretchen Rupp		0.100 Dual CECs		No CECs		
10:15 AM	Vendor Show - Ballrooms B&C	on Food & Boon Brings	Must attend sessions	right before and after each brea	•		
	Meet the Vendors - Great Informati Wastewater - Room 233	Water - Procrastinator Theater	W & WW - Ballroom A		0.025 Dual CECs		
	On-site Wastewater Systems	SWT Rules & Reas	Affordable SCADA	Math Review 1 - Basic	Wastewater Terms -		
				for All Water Classes	Cont'd		
11:15 AM			Chuck Wambeke, IAC		00		
	Matt Huggins, Advanced Pump & Equipment	TEEX	Mod:				
	Mod: Reta Therriault, DEQ 0.075 WW CECs	Mod: 0.075 W CECs		Greg Butts No CECs	Bill Bahr, DEQ No CECs		
12:00 PM	LUNCH - ON YOUR OWN		<u> </u>	7 - 3			
1:00 PM	Wastewater Treatment:	SWT Rules & Regs	Hydraulic Valves &	Monitoring, Sampling &	Wastewater Practice		
	Optimizing Performance at		Valve & Actuation	Total Coliform Rule	Exam		
	Lagoons, Mechanical, &		for W/WW	All Classes 1-5	David Frickey, DEQ		
	Advanced Plants	TEEX					
	Bill Bahr, DEQ	Mod:		All Classes 1-5	All Classes 1-4		
	Mod: Wyatt Cross, MWC 0.100 WW CECs	0.100 W CECs		Emily Ewart, DEQ No CECs	No CECs		
	Membrane Bioreactor Wastewater	Filter Backwashing Rule		Basic Water Chemistry	Wastewater Practice		
2:00 PM	Treatment Start-up & First Year	TEEV	Jacob McCough Binastone		Exam - Review		
		TEEX	Jacob McGough, Pipestone Equip.		David Frickey, DEQ		
	Eric Blanksma, Morrison-Maierle Mod: Wyatt Cross, MWC 0.100 WW CECs	Mod:	Mod:	All Classes 1-5			
3:00 PM	Mod: Wyatt Cross, MWC 0.100 WW CECs	0.100 W CECs	ROOMS B & C	Chris Erickson, DEQ No CECs	No CECs		
	Vendor Show - Ballrooms B&						
	Meet the Vendors - Great Informati	on, Food & Door Prizes			0.025 Dual CCECs		
		Revised Total Coliform	Reagent Less	Disinfection	Wastewater		
	Technology" MBR	Rule	Chlorine Analyzer		Regulations		
			Technology				
		Emily Ewart, DEQ	Jerry Berger, Elctro-Chemical				
	Jeremy Perlinski, Morrison-Maierle	Mod: Reta Therriault, DEQ	Mod:	Lisa Kaufman, DEQ	Bill Bahr, DEQ		
	Mod: Wyatt Cross, MWC 0.100 WW CECs	0.100 Water CECs	0.100 Dual CECs	No CECs	No CECs		

			WEDNESDAY ~ October 8, 201	4		
TIME	Wastewater	Water & Management	Water	Water & Wastewater	Cert Review - Water	Cert Review - W
	Room 233	Procrastinator Theater	Ballroom B	Ballroom C	Ballroom D	Room 235
8:00 AM	MPDES Permits	Asset Management	Stage 2 Disinfection Byproduct Rule	Establishing Operation & Maintenance Procedures	Groundwater Basics	Wastewater Safety Bill Bahr, DEQ
	Lisa-Kay Keen, DEQ Mod: R. Therriault, DEQ 0.100 WW CECs	Glenn Barnes	John Jose, DEQ Mod: 0.100 W CECs		All Classes 1-5	All WW Class
9:00 AM	Understanding DEQ's Inspection		Road Map to Stage 2 Compliance			Wastewater Ma
	Process Lisa-Kay Keen, DEQ	Environmental Finance Center Mod:	Joe Schmidt, Hawkins Inc.	Mike Bacon, Colorado Dept. of Health & Environment Mod:	Monte Smith, DEQ	- Frickey, DEQ All WW Class
	Mod: 0.100 WW CECs	0.200 Water CECs	Mod: 0.100 W CECs	0.200 Dual CECs	No CECs	No CE
	BREAK	T			T	0.025 Dual C
	Completing & Reporting Calculations & Completing DMRs & Reporting Lab Data		Bozeman Water Plant Tour -	Establishing Operation & Maintenance Procedures	Math Review 2 - Hydraulics	Wastewater Ma - Continued David Frickey, DEQ
					Classes 1-5 Greg Butts, DEQ No CECs	
1:00 AM					Operations & Maintenance	
	Lisa-Kay Keen, DEQ Mod: 0.100 WW CECs	Glenn Barnes, EFC Mod:	Rick Moroney, City of Bozeman  Mod: 0.175 W CECs	Mike Bacon, Colorado Dept. of Health & Environment  Mod:	Classes 1-5 Gerard Gernand, DEQ No CECs	All WW Class
2:00 PM	LUNCH - ON YOUR OWN	0.175 Water CECs	Mod: U.175 W CECS	0.175 Dual CECS	Gerard Gernand, DEQ No CECS	No Ci
	Wastewater Microbiology	Water Loss	Water Operator Roles &	Confined Space Safety	Math Review 3 - Dosage	Lagoons -
	wastewater iniciosiology	Reduction	Responsibilities; Jeopardy Style	Commica Opace Galety	Calculations	Facultative & Aerated
			Diane Jordan & Lisa Kaufman, DEQ	TEEX	All Classes 1-5	
			Mod: R. Therriault, DEQ 0.100 W CECs	Mod: 0.100 Dual CECs	Greg Butts No CECs	David Frickey, DEQ
2:00 PM		Glenn Barnes, EFC	Battling the Polar Vortex: Ice Prevention Strategies for Tanks	Confined Space Safety	Math Review Conclusion	
	Bill Bahr, DEQ & Barb Coffman, METC	Mod:	Karen Losee, PAX	TEEX	All Classes 1-5	WW Classes 3-4
	Mod. Barb Coffman 0.200 WW CECs		Mod: 0.100 W CECs	Mod: 0.100 Dual CECs	Greg Butts, DEQ No CECs	No Cl
3:00 PM	BREAK					0.025 Dual C
3:15 PM	An Introduction to the Microbiology of Drinking Water	Energy Management of Water Systems	3:15 - 5:00 pm	Excavation and Trenching	Safety for Small Systems	Mechanical Wastewater Systems
		Glenn Barnes, EFC  Mod: 0.075 Water CECs	0.175 Wastewater CECs  OR Mod.		All Classes 1-5 Chris Erickson, DEQ No CECs	Bill Bahr, DEQ
4:00 PM		Accessing Multiple	Surface Water Multi Barrier, SWP & Unit Processes - Cert. Review		Security & Emergency Preparedness	
4.00 F W		iFunding Sources				
4.00 T W	Beth Lorence, DEQ & Barb Coffman, METC	Funding Sources Glenn Barnes, EFC	3:15 - 5:00 pm	TEEX	All Classes 3-5	WW Classes 1-2

		THURSDA	√ ~ October 9, 2014			
TIME	Wastewater	Water	Water & Wastewater	Cert Revie	ew - Water	Cert Review - WW
	Room 233	Ballroom B	Ballroom C	Room 232	Ballroom D	Room 235
8:00 AM	Collection System Operation &	Consumer Confidence Reports and	Safety Programs, Utility Hazards &	Surface Water	Water Treatment	Wastewater
	Maintenance	Public Notice	Traffic Control	Treatment Techniques	Classes 3-5	Disinfection & Sludge Disposal
		TEEX	s	Classes 1&2	Chris Erickson, DEQ No CECs	All WW Classes 1-4 Bill Bahr, DEQ No CECs
9:00 AM		Consumer Confidence Reports and Public Notice			Distribution System Basics All Classes 1-5	Operations & Maintenance All WW Classes 1-4
	Nick Pericich, Matt Workman & J. Alston, City of Bozeman	TEEX	TEEX	Gerard Gernand, DEQ	Greg Butts, DEQ	Bill Bahr, DEQ
	Mod: 0.200 WW CECs	Mod: 0.100 Water CEC	s Mod: 0.200 Dual CECs	No CECs	No CECs	No CECs
10:00 AM	BREAK					0.025 Dual CECs
10:15 AM	Industrial Wastewater Systems	Biological Sampling  TEEX	Chemical Safety	Surface Water Monitoring Requirements	Distribution System Basics - Cont'd Greg Butts, DEQ	General Review  David Frickey, DEQ
	Bill Bahr, DEQ Mod: 0.075 WW CECs		s	Gerard Gernand, DEQ No CECs	No CECs	
11:00 AM		Biological Sampling	-	Surface Water - Review	Groundwater Review	
	Otto Stein, MSU-Bozeman  Mod: 0.100 WW CECs	TEEX Mod: 0.100 Water CEC	TEEX s Mod: 0.175 Dual CECs	Gerard Gernand, DEQ No CECs	DEQ PWS Staff No CECs	All Classes 1-4 No CECs
12:00 PM	LUNCH - ON YOUR OWN					
	Water	Water & Wa				
	Room 233	Ballrooms				
1:00 PM	Repair & Disinfection of Large Water Systems - AWWA Standards	Dealing with Asbestos Infrastructure in V	Vater & Wastewater Systems			
	John Alston, City of Bozeman	Deb Grimm, DEQ				
	Mod: Gretchen Rupp 0.100 Water CECs	Mod.	0.100 Dual CECs			
2:00 PM	Mod: Gretchen Rupp 0.100 Water CECs Repair & Disinfection of Small Water Systems - AWWA Standards	Mod.  GIS 101 - How to Start Mapping Your Util				
2:00 PM	Mod: Gretchen Rupp 0.100 Water CECs  Repair & Disinfection of Small Water	Mod.		Con	tification Examinati	ons
2:00 PM 3:00 PM	Mod: Gretchen Rupp  0.100 Water CECs  Repair & Disinfection of Small Water  Systems - AWWA Standards  Gerard Gernand, DEQ & Kelly Elser, Town of Ennis	Mod.  GIS 101 - How to Start Mapping Your Util  Carrie Shockly, City of Bozeman	ity	Cer	tification Examinati ation: SUB Ballroo	
	Mod: Gretchen Rupp  0.100 Water CECs  Repair & Disinfection of Small Water Systems - AWWA Standards  Gerard Gernand, DEQ & Kelly Elser, Town of Ennis Mod: Gretchen Rupp  0.200 W CECs	Mod.  GIS 101 - How to Start Mapping Your Util  Carrie Shockly, City of Bozeman	ity	Cer Loc R	ation: SUB Ballroo egistration: 12:30 P	m D M
3:00 PM	Mod: Gretchen Rupp  0.100 Water CECs  Repair & Disinfection of Small Water Systems - AWWA Standards  Gerard Gernand, DEQ & Kelly Elser, Town of Ennis Mod: Gretchen Rupp  0.200 W CECs	Mod.  GIS 101 - How to Start Mapping Your Util  Carrie Shockly, City of Bozeman  Mod:  BALLROOMS B & C  on Control	ity	Cer Loc R Exan	ation: SUB Ballroo	m D M
3:00 PM	Mod: Gretchen Rupp  0.100 Water CECs  Repair & Disinfection of Small Water Systems - AWWA Standards Gerard Gernand, DEQ & Kelly Elser, Town of Ennis Mod: Gretchen Rupp  0.200 W CECs  BREAK  Backflow Prevention & Cross Connecti Ray Hedglin, Retired City of Bozeman & Ben Ward, Williams I Mod: Barb Coffman, METC  Outlaws & Enemies: Typhoid & the Enr Spencer Shropshire, Jr., M.D. Family & Community Medicine	Mod.  GIS 101 - How to Start Mapping Your Util  Carrie Shockly, City of Bozeman  Mod:  BALLROOMS B & C  on Control  Plumbing	0.100 Dual CECs	Cer Loc R Exan	ation: SUB Ballroo egistration: 12:30 P	m D M
3:00 PM 3:15 PM	Mod: Gretchen Rupp  0.100 Water CECs  Repair & Disinfection of Small Water Systems - AWWA Standards Gerard Gernard, DEQ & Kelly Elser, Town of Ennis Mod: Gretchen Rupp  0.200 W CECs  BREAK  Backflow Prevention & Cross Connecti Ray Hedglin, Retired City of Bozeman & Ben Ward, Williams I Mod: Barb Coffman, METC  Outlaws & Enemies: Typhoid & the Em	Mod.  GIS 101 - How to Start Mapping Your Util  Carrie Shockly, City of Bozeman  Mod:  BALLROOMS B & C  on Control  Plumbing	0.100 Dual CECs	Cer Loc R Exan	ation: SUB Ballroo egistration: 12:30 P	m D M