## ORWEF WES: June 14 to 16, 2022

## This is the short school planning booklet submitted to DEQ, from their records.

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ne 14-16th		ions & Maintenance, Safety, Asset N	Management (
JESDAY	- June 14 7:30-7:45am	Event Opens: Q&A, Getting Started	
	7:45-8:00am 8:00-9:00am	Opening Announcements Title:	Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant
		Presenter:	Russ Reasoner, Sr. IH/Randy Westmoreland
1	Moderators:	Company/Organization: Brief Description:	Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years workin
2	9:00-9:10am	Break	
!	9:10-10:10am	Title: Presenter:	Utility Locating 101 Geoff Robinson
	Moderators:	Company/Organization:	Cimco PNW This course will cover the challenges of locating underground utilities,
	1 Hunter BD	Brief Description:	common location techniques, steps to build a comprehensive locating system, and common dos and don'ts of utility locating.
2	2		Bio: Geoff Robinson has over 25 years experience in the water-related products industry.
	10:10-10:20am 10:20-11:20am		
3		Presenter:	Collections Plugging Solutions Rich Owens
1	Moderators: 1 Hunter BD	Company/Organization: Brief Description:	Owens Pump  What types of items are being found in wastewater collections, and what
			types of pumps are available to prevent collections plugs. We discuss the advantages and disadvantages of each design, and concept.
2	11:20-11:30am		
1	11:30-12:30pm	Title: Presenter:	Easements / Access Rights for Utilities Sarah Liljefelt
	Moderators:	Company/Organization: Brief Description:	Schroeder Law Offices, P.C. Learn best practices for obtaining and confirming access rights and the scope
	2	2.10. 2000. paoli.	of such access rights for repairs, removal of access barriers, and more.  Bio: Sarah Liljefelt is an attorney whose areas of practice include: water rights
			due diligence review, permitting, extensions, transfers, mitigation, and cancellation; water-related real property issues, including easements,
			licenses, right-of-ways, and well share agreements; real property disputes, including prescription, adverse possession, and condemnation; public records, meetings, and contracting compliance; water quality and wetlands
			regulation compliance; administrative adjudications, judicial review of agency orders, and state and federal civil litigation and appeals.
;	12:30-1:00pm 1:00-2:00pm	Lunch Title:	Corroded Manhole Assessment Rehabilitation Design and Construction
		Presenter:	Neil Jenkins, P.E. and Chris Kossow
1	Moderators: 1 Hunter BD	Company/Organization:	Eagle Sewer District Concrete manholes should have more structural strength than peanut butter,
			but PB-consistency concrete is exactly what Eagle Sewer District found as they conducted their periodic inspection of one section of collection system manholes. The culprit was found to be hydrogen sulfide corrosion from two
			nearby forcemain discharges. These forcemains, coupled with a very steep sloped pipe (up to 8 percent) down a hillside farther down the main were
			enough to release H2S that corroded the manholes faster than expected.  Compounding the problem was the location of this main, through a high-end
			neighborhood and adjacent to a golf course. The groundwater up on the hill was not a factor, but the section at the bottom of the hill was in nearly 10-feet of groundwater.
			or groundwater.  The manholes were assessed first visually and then with a scrape test. From
			the ground, the 15 to 18-foot deep manholes appeared to be in good to fair condition with smooth gray concrete with little corrosion until a scape test was
			performed and the softened concrete sluffed from the wall like tooth paste or soft plaster. The downstream section of the system yielded less than 1-inch of concrete loss. As we worked upstream to the base of the hill and closer to
			of concrete loss. As we worked upstream to the base of the hill and closer to the pump station discharges, up to almost 2-inches was discovered. Next to the pump station discharge, 3 inches of the 5-inch thick manhole wall was
			missing.
			In addition to the condition assessment approach, this presentation will discuss the manhole rehabilitation methods that were considered. These
			include manhole replacement, liners, inserts, structural coating, and coatings for corrosion protection. The final design that resulted and the ultimate rehabilitation project will be presented. Lessons learned that will be shared
		Brief Description:	include how to complete rehabilitation technologies and coordination with neighbors and interested agencies.
2	2		Bio: Mr. Jenkins holds a bachelor's degree in Civil and Environmental Engineering and a master's degree in Civil Engineering. He is a licensed
			professional engineer in Idaho. He is an accomplished wastewater engineering project manager. During his private sector career working for a
			leading engineering firm, he delivered a wide variety of studies, plans and capital projects for many clients throughout Idaho. As General Manager of Eagle Sewer District, Mr. Jenkins leads the District under the direction of a
			five member board. He sets the long term vision for the District while supervising day-to-day administration and operations.
			Chris Kossow
			Mr. Kossow is the Assistant Operations Manager at Eagle Sewer District. He is a seasoned collection system manager and plant operator who holds both
			collection system and wastewater treatment licenses. He coordinates the collection system assessment, cleaning, and maintenance activities for the
		Break	District. He also leads the wastewater operations team for the District.
	2:10-3:10pm	Title:	Implementation of Telemetered Water Quality Sensors in the Sanitary Collection System
	Moderators:	Presenter: Company/Organization:	Scott Mansell, Ph.D. Clean Water Services
1	Moderators.	Company/Organization.	Clean Water Services has been developing telemetered, continuous water quality sensing network for the sanitary collection system in order to help
			protect the WRRF from harmful discharges. The challenges of developing such a network in such a difficult environment are considerable, but over the
			last 4 years CWS has been able to develop the technology, methods, and practices to overcome them. CWS is now moving out of the pilot phase into
			the full implementation phase and has already been successful in tracking down and eliminating two long-standing sources of upsets to the WRRFs. In
		Brief Description:	this talk, CWS will discuss our path to the current state and our vision for the near and long-term future.
2	2		Bio: Scott Mansell is the Senior Engineer in the Research and Innovation Department at Clean Water Services where he's been since 2017. Scott leads three main areas of research related to advanced sensing, trace
			organics and emerging contaminants, and advanced sensing, flace organics and emerging contaminants, and advanced modeling. Scott earned a PhD in Environmental Engineering from UC Berkeley in 2012 and has
	3:10-3:20pm	Break	worked in both the private and public sectors since.
	3:20-4:20pm	Title:	Assessment of Critical Dependencies for Rapid Disaster Recovery
	Moderators:	Presenter: Company/Organization:	Wayne Gresh Carollo Engineers
1	1		The Metropolitan Wastewater Management Commission assessed performance of wastewater conveyance and treatment facilities for two
			catastrophic natural disasters: the Cascadia Subduction Zone seismic event (magnitude 9.0 to 9.2) and catastrophic flood event adjusted to reflect exacerbations from climate change. Performance was assessed with respect
			to achieving post disaster recovery goals set forth in the Oregon Resiliency Plan. MWMC identified and assessed critical dependencies that could substantially impact their ability to respond and recover from the natural
			disasters. The collaborative effort with staff identified actions that would help  MWMC prepare for any disaster event and minimize the potential for
	2	Brief Description:	cascading failures.  Bio: Wayne Gresh is a project manager for Carollo Engineers.
		Closing Remarks/Daily Wrap Up	Bio. Wayne Gresin's a project manager for Carollo Engineers.
2	4:20-4:30pm		
	4:20-4:30pm 0/06/15/2022		
	7:30-7:45am	Event Opens: Q&A, Getting Started	
	0/06/15/2022	Event Opens: Q&A, Getting Started Opening Announcements Title:	Updates on the War Against Flushable Wipes
/EDNESD	7:30-7:45am 7:45-8:00am	Opening Announcements	Updates on the War Against Flushable Wipes Frank Dick, Wastewater Engineering Supervisor City of Vancouver, WA
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		Brief Description:	Clackamas Water Environment Services (WES) completed a collection system master plan (CSMP) in 2019. One of the findings of the CSMP is that
			it is more cost effective system wide over the next 20 years to reduce I/I in 19 key basins rather than increase the conveyance and treatment capacity of the
			system to accommodate the extraneous wet weather flows. The collection system is comprised of multiple jurisdictions or member communities as well
			as WES owned infrastructure. Évery jurisdiction contains a basin in which it was found to be more cost effective to reduce I/I rather than increase the
			downstream system capacity. WES and the City of Gladstone (City) both have jurisdiction over portions of
			the collection system within the 19 key basins, and have immediate capacity needs to reduce the I/I. The good working relationship between WES and the
			City made it possible for the two entities to establish an IGA and enter into a contract with a consulting engineering firm to address the I/I in both
			jurisdictions simultaneously. The consulting contract will identify the sources of the I/I and design rehabilitation projects to remove it.
			The joint project provides efficiency and cost savings to both of the partner entities. Project management costs are reduced since there is only one
			project not two. There is economy of scale and reduced mobilization costs when combining the field investigation activities. There are cost savings in
			the designs when applying the same standards across multiple sets of construction documents. These are just a few of the financial benefits of
			working together for a common goal.  The I/I identification activities were completed in summer of 2021. WES has
			begun addressing both the manholes and private sources of I/I identified during the investigations. The City has begun the process of bringing an
			engineer on board to design the rehabilitation necessary to address the sources of I/I identified in their system. It is anticipated upon completion of
			the designs each partner will bid out their own construction projects.
2	4		Bio: Jessica Rinner is a licensed civil engineer in Massachusetts and Oregon with over 25 years of experience focused on sanitary sewer systems. She
			has worked for both consulting firms and municipalities over the years.  Jessica greatly enjoys working for municipalities, being the "owner" of the
			system, and working closely with the operations and maintenance staff to ensure their sewer system in in good condition and can effectively protect the health of the public and the environment.
	10:10-10:20am	Break	nearth of the public and the environment.
#10	10:20-11:20am	Title: Presenter:	Modern Tools for Condition Assessments in Collection Systems  Michelle Beason, P.E.
	Moderators:	Company/Organization:	National Plant Services, Inc.
1		Brief Description:	This presentation will discuss new methods of conducting condition assessments in collection systems, including CCTV, multi sensor inspections
			using laser and sonar, manhole cameras including 360 degree IBAKcameras, smoke testing, time lapse manhole cameras.
2	2		Bio: Michelle Beason is an industry leader in the maintenance and trenchless rehabilitation of sewer, water, and storm assets. She has extensive
			professional engineering and management experience spanning 29 years in Public Works including: Asset Management practices, planning and design of
			water and wastewater facilities, pipeline and facility inspection and maintenance, project management, engineering consulting, and construction
	11:20-11:30am	Break	of trenchless rehabilitation solutions.
#11	11:20-11:30am 11:30-12:30pm	Title:	Sanitary Sewer Lateral Inspection and Lining
	Moderators:	Presenter: Company/Organization:	Michelle Beason, P.E. National Plant Services, Inc.
1		, . , g	The Environmental Protection Agency estimates that private lateral sewer
			lines account for 75% of the infiltration of groundwater into the nation's main sewer lines. These leaking laterals cause treatment plants to treat a higher- than-anticipated volume of water, resulting in higher treatment costs for the
			sanitary district, and higher customer fees. Eliminating the extra cost of
			treating this infiltration will more than compensate for the investment needed to inspect and repair laterals. This presentation will discuss methods for inspection and requiring laterals including CCTV inspection and requiring laterals.
		Brist December	inspecting and repairing laterals, including CCTV inspection, cleaning and root cutting, main-to-house (MTH) lining, connection repair, and sealing with
2	2	Brief Description:	chemical grout.  Bio: Michelle Beason is an industry leader in the maintenance and trenchless
			rehabilitation of sewer, water, and storm assets. She has extensive professional engineering and management experience spanning 29 years in
			Public Works including: Asset Management practices, planning and design of water and wastewater facilities, pipeline and facility inspection and
			maintenance, project management, engineering consulting, and construction of trenchless rehabilitation solutions.
#12	12:30-1:00pm	Lunch	
#12	1:00-2:00pm	Title: Presenter:	Odor Control in Collection Systems John Sawyer
	Moderators:	Company/Organization:	BioAir Solutions
1		Brief Description:	Describe sources, pathway and control of collection system vapor phase odors and gases. Discussion of gases/odors moving through collection
			system and the potential pathways of escape, with potential solutions to contain and eliminate odors and gases.
2			Bio: John Sawyer has more than 15 years' experience in the water- wastewater industry.
#13	2:00-2:10pm 2:10-3:10pm	Break Title:	
#13	2:10-3:10pm	Presenter:	DAS Screens - An Alternative to Grinders and Chopper Pumps
	Moderators:	Company/Organization:	Steve Aiken
			Duperon Corporation
1	ı	Brief Description:	"Flushable" wipes are a big problem in collection systems and headworks. The Dual Auger System uses existing technologies to capture and remove
			rags and other pump-fouling debris while keeping organics in the collection system. This presentation will provide an overview of how the system works
			and how it can be applied.
2	2		Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon.
	3:10-3:20pm	Break Title:	Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon.
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	1 Hunter BD	Brief Description:	More than 40 years ago, area/velootly (AV) meters brought a new way to measure collection system flow. Over the past few years, depth-only monitors have been introduced, promoted as a less expensive alternative to AV meters. As their name implies, depth-only meters measure depth and not velocity. In order to satisfy the equation C=VA, these meters use Manning's equation or other self-described proprietary algorithms for velocity (V). This presentation discusses a series of studies that compared depth-only versus AV meters. The results call into question the effectiveness of depth-only meters' usage for assessing I/I given the potential for significant and sometimes unpredictable error. More impactfully, misleading data may drive utilities to incorrectly conclude which basins are a priority for infrastructure investments. While the initial ture of depth-only meters promises to save thousands during the I/I assessment phase, an unnecessary upgrade in the wrong basin puts hundreds of thousands, possibly millions of oldiers at risk. Bio: Jay Boyd has 20-plus-years' experience in the water-wastewater industry.
	12:30-1:00pm	Lunch	
#19	1:00-2:00pm	Title:	Sample Collection & Sampling Plans - Best Practices
		Presenter:	Erika Schwender
	Moderators:	Company/Organization:	Professional Training Association
	1	Brief Description:	Analytical data produced by any laboratory is only defensible if proper sample collection, preservation, and storage procedures are applied. The first link in the long chain of a sample's life is the sample collection site. The determination of where and when to collect a sample is as important as the type of sample, proper sample preservation and storage, or the analysis itself. Incorrect or inconsistent sample collection locations can lead to misleading conclusions and invalidated regulatory samples or investigatory studies. This is why developing a sample collection plan is essential for any compliance related monitoring, exploratory study, or investigation.  Once we are confident we collected the appropriate site and time for our sample collection it is essential to consistently follow the correct sample collection, it is essential to consistently follow the correct sample collection it is essential to consistently follow the correct sample collection, preservation, and storage procedures to assure the laboratory receives a sample that has been properly prepared for the requested analysis.
	2	Brief Description:	
	2:00-2:10pm	Break	
#20	2:10-3:10pm	Title:	Sample Collection & Sampling Plans - Best Practices (continued)
		Presenter:	Erika Schwender
	Moderators:	Company/Organization:	Professional Training Association
	2	Brief Description:	Continuation of #19. See description above.
	3:10-3:20pm	Break	
#21	3:20-4:20pm	Title:	Sample Collection & Sampling Plans - Best Practices (continued)
#41	3.20-4:20pm	Presenter:	Frika Schwender
	Moderators:	Company/Organization:	Professional Training Association
	1	Brief Description:	Continuation of #19. See description above.
	2	Differ Description.	Continuation of #10. Occ description above.
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	nment School		
	Operations: Bas	ics & Beyond, Safety, Asset Manag	ement/ Technology/ Activated Sludge
TUESDAY -	June 14 7:30-7:45am	Event Opens: Q&A, Getting Started	
1	7:45-8:00am 8:00-9:00am	Opening Announcements Title:	Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant
	Moderators:	Presenter: Company/Organization:	Russ Reasoner, Sr. IH/Randy Westmoreland
1 2		Brief Description:	Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years work
	9:00-9:10am	Break	Mariella Consul Westernatus Durantus
!	9:10-10:10am	Title: Adaptive Mixing Presenter:	Variable Speed Wastewater Pumping Alden Meade
1	Moderators:	Company/Organization: Brief Description:	This presentation covers the difficulties of wastewater pumping and the
			problems that can arise when using VFD speed control. We will discuss how these issues can be
			addressed and how a VFD will ultimately help save on energy usage and callouts
2			when paired with proper pump selection and station design & control.
	10:10-10:20am 10:20-11:20am	·	Reduce Operating Costs with Energy Efficient Improvements
	Moderators:	Presenter: Company/Organization:	Kelson Redding Energy 350
1	Hunter BD	Brief Description:	This presentation will highlight the biggest energy users common in wastewater
2			treatment plants and present low-cost ideas to help reduce operating costs.
	11:20-11:30am 11:30-12:30pm		Positive Displacement Pump Choices for Wastewater
		Presenter:	Rich Owens
1	Moderators:	Company/Organization: Brief Description:	Owens Pump There are many different positive displacement sludge pumping solutions out
			there, how do each of them work? Learn the differences between progressing cavity, rotary lobe, double disc, and peristaltic hose pumps in different applications throughout the wastewater treatment process.
			unierent applications unoughout the wastewater treatment process.
2	12:30-1:00pm	Lunch	
	1:00-2:00pm	Title:	Renewable Natural Gas Production development within Metropolitan Wastewater Management Commission (MWMC)*
		Presenter:	Wastewater Management Commission (MWMC)*  Mark Van Eeckhout
	Moderators:	Company/Organization:	Metropolitan Wastewater Management Commission /City of Springfield
1	Hunter BD	Company/Organization.	menopolitari wastewatei ivianagement Commission /City of Springileiu
			The Metropolitan Wastewater Management Commission (MWMC)
			Eugene/Springfield Water Pollution Control Facility (WPCF) in Eugene, OR is a 34 MGD plant that generates 400,000 to 500,000 cubic feet per day of
			biogas from 4 anaerobic digesters. The MWMC undertook a capital project over the past several years to build a Renewable Natural Gas (RNG) Facility that can process the Biogas into RNG for injection into the local Northwest
			Natural (NWN) Gas transmission system. The project was commissioned in December 2021, and was the first RNG facility at a Publicly Owned
			Treatment Works to come online in the state of Oregon. This presentation will focus on the efforts taken by the MWMC and their partners to plan design
		Brief Description:	and construct this facility and will have discussions about ongoing operations lessons learned.
2			
	2:00-2:10pm	Break	
	2:10-3:10pm	Title: Presenter:	Wastewater MBR Basics Blake Raines
1	Moderators:	Company/Organization:	Clackamas Water Environment Services  This will explain the basics of wastewater membrane bio-reactors. It will
			include what they are made of, how they function and important plant design ideas to
		Brief Description:	keep in mind. It will also include my own challenges and benefits of operating a wastewater MBR plant and lessons learned
2	3:10-3:20pm	Break	Westerland in the Paris and records realised
	3:20-4:20pm	Title:	The Fundamentals of Electrochemistry
		Presenter:	Mark McEiroy
	Moderators:	Company/Organization:	Thermo Fisher Scientific The Thermo Scientific pH Seminar focuses on the essentials of practical pH
'			measurement. pH is one of the most common and routine types of laboratory analysis for wastewater, but in order to achieve good precision and accuracy,
			proper technique must be followed.
			Each component of the pH system will be discussed with only a minimum of time spent on theory:
			Electrodes, Calibration, Care and Maintenance, Temperature and
			Troubleshooting.
2		Brief Description:	Troubeshoung.
2	4:20-4:30pm	Brief Description:  Closing Remarks/Daily Wrap Up	nouneshoung.
	06/15/2022	Closing Remarks/Daily Wrap Up	nouneshoung.
		·	Trouveshoung.
	06/15/2022 7:30-7:45am	Closing Remarks/Daily Wrap Up  Event Opens: Q&A, Getting Started	Updates on the War Against Flushable Wipes Frank Dick
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1 2 2 0 0 1 1	06/15/2022 7:30-7:45am 7:45-8:00am 8:00-9:00am Moderators: 9:00-9:10am 9:10-10:10am Moderators:	Closing Remarks/Daily Wrap Up  Event Opens: Q&A, Getting Started Opening Announcements Title: Presenter: Company/Organization: Brief Description:  Break Title: Pumps Presenter: Company/Organization: Brief Description:  Break Title: Presenter: Company/Organization:	Updates on the War Against Flushable Wipes Frank Dick City of Vancouver Public Works  Adaptive Mixing and Better Biological Nutrient Removal Alden Meade Xylem This presentation will give attendees a better understanding of BNR and the role that mixing pays in its effectiveness. In addition they will learn different ways to monitor BNR processes and will have suggestion on control options that they can attempt at their own facilities.  Aeration; why, how, and new O&M realities Randy Chan  Aeration; Why, How, and New O&M Realities — Aeration is more than operating your duty blowers. In Part 1, we'll review the relationship to process operating conditions and performance, impacts of maintenance on diffuser performance and blower capacity, and DIY aeration opportunities to improve process performance and reduce the single largest use of energy in your plant Randy currently supports the industry as an independent knowledge resource. My background includes over 40 years in the industry with work experience in refinery wastewater treatment with Sohio and British Petroleum, aeration system product design and application with Environmental Dynamics International, and next-generation digital twinning
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	12:30-1:00pm	Lunch		С
#12	1:00-2:00pm	Title: Presenter:	Overview of Lab Documentation Lori Zboralski	P
1	Moderators:	Company/Organization:	Professional Training Association As a water or wastewater operator you know that documentation is becoming	E
•			nore and more important. At times if feels like we can't do ANYTHING anymore without having to record or log it somewhere. On top of that, sometimes if feels like every time we talk to someone about what we are required to document we get a different answer. This workshop explains why all this paperwork is necessary and how you can use this information to make your life easier down the road. Sooner or later your operation will be confronted with an audit by the regulators, has to troubleshoot the treatment process or a piece of equipment, or renew the discharge permit. Good and thorough information will improve your organization's compliance and make those situations less stressful and easier to navigate.	
			This workshop will point out what and how information needs to be documented to stay compliant with lab accreditation requirements and produce defensible and reliable lab data. We will discuss internal and external chain of custodies (COCs), benchsheets, logs (temperature, chemical, reagent, maintenance, etc.), qualify control (CO) logs and charts,	
2		Brief Description:	and standard operating procedures (SOPs).	N
3	2:00-2:10pm 2:10-3:10pm	Break Title:	Overview of Lab Documentation (continued)	H
		Presenter:	Lori Zboralski	P
	Moderators:			Ī
1		Company/Organization: Brief Description:	Professional Training Association Continuation of #12. See description above.	E N
2	3:10-3:20pm	Break		С
ļ.	3:20-4:20pm	Title: Presenter:	Overview of Lab Documentation (continued) Lori Zboralski	P
	Moderators:	Company/Organization:	Professional Training Association  Continuation of #12. See description above.	E
1	Hunter BD	Brief Description:	Continuation of #12. See description above.	N C
	4:20-4:30pm	Closing Remarks/Daily Wrap Up		L
JRSDAY	June 16 7:30-7:45am	Event Opens: Q&A, Getting Started		f
	7:45-8:00am 8:00-9:00am	Opening Announcements Title:	Introduction to Your DEQ Online	
	J.CO-G.OUGIII	Presenter:	Jessica Lorenz, Your DEQ Online Trainer and Margaret Gardener, Your DEQ Online Change Manager	P
	Moderators:	Brief Description:	Omitre Citarity wantiger  Over the next two years, Your DEQ Online will bring most of DEQ's application, payment and reporting processes into one cloud-based platform. This presentation will provide an overview of what to expect for this new platform called Your DEQ Online. There will also be a brief demonstration of the application process and key features of the system.	E
2				C
	9:00-9:10am 9:10-10:10am	Break Title:	A.D. (Air Driven) Floating Aerators/Mixers	f
	Moderators:	Presenter: Company/Organization:	Lewis Titus TITUS® Industrial Group Inc.	P E
1		Brief Description:	Efficient lagoon aeration and mixing has been a challenge for decades. Applications requiring aeration and mixing span across various markets including municipal water and wastewater, industrial and commercial industries. Some of the most common challenges experienced by these industries include studge control, odor issues, limited equipment adaptability/versatility, high maintenance costs, cold weather issues, safety, and high operational costs. A.D. (Air Driven) Floating Aerators/Mixers offer many advantages over mechanical floating aerators and bottom diffusers for lagoons, large basins,	
2			large tanks, and even large pump stations.	N
	10:10-10:20am 10:20-11:20am		Wastewater Operator Certification Basics	ĺ
	Moderators:	Presenter: Company/Organization:	Wastewater Operator Certification Basics Kimi Grzyb	Р
	Moderators:	Company/Organization: Brief Description:	Oregon DEQ	E
	runter DU	oner pescription:	"DEQ Wastewater Operator Certification Program Information: webpage navigation, the certification process and requirements, applying, renewals/CEUs, and Q&A*.	N
"				ĮU.
2	11:20-11:30am 11:30-12:30pm		Operational Risk Assessment	
	11:30-12:30pm	Title: Presenter:	Operational Risk Assessment  Mark Walter  WATERDIDE Solutions	P
1		Title:		PE
1	11:30-12:30pm Moderators: Hunter BD	Title: Presenter: Company/Organization:	Mark Walter WATERDUDE Solutions Developing an approach to operational risk assessment is critical to managing wastewater operations. This training will define an approach to developing a risk matrix for evaluating wastewater systems. Attendees will be instructed on how to define a wastewater system, its level of service, and criticality. Then they will learn how to assign likelihood of operational failure and triggers for taking action. Attendees will participate in completing an operational risk assessment utilizing this approach on a wastewater system. The intent of this training is to inform operators on how system risk can be	PE
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1	11:30-12:30pm Moderators: Hunter BD  12:30-1:00pm 1:00-2:00pm Moderators:	Title: Presenter: Company/Organization: Brief Description:  Lunch Title: Presenter: Company/Organization:  Brief Description: Brief Description:	Mark Walter WATERDUDE Solutions Developing an approach to operational risk assessment is critical to managing wastewater operations. This training will define an approach to developing a risk matrix for evaluating wastewater systems. Attendees will be instructed on how to define a wastewater systems, the twel of service, and criticality. Then they will learn how to assign likelihood of operational failure and triggers for taking action. Attendees will participate in completing an operational risk assessment utilizing this approach on a wastewater system. The intent of this training is to inform operators on how system risk can be used to make decisions and communicate system status.  Operational Task Planning Mark Walter WATERDUDE Solutions Task planning is a critical element of maintaining wastewater treatment plant operation. Developing a work process that supports effective task planning will help identify and reduce unintended outcomes. This training will introduce attendees to a task planning approach that includes risk assessment and plan development. Attendees will participate in a scenario-based task planning session to gain experience using this approach. The intent of this training is to inform operators on how to manage risk while performing	PE
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2	11:30-12:30pm Moderators: Hunter BD  12:30-1:00pm 1:00-2:00pm Moderators:	Title: Presenter: Company/Organization: Brief Description:  Lunch Title: Presenter: Company/Organization: Brief Description: Brief Description: Brief Description: Brief Description: Company/Organization:	Mark Walter WATERDUDE Solutions Developing an approach to operational risk assessment is critical to managing wastewater operations. This training will define an approach to developing a risk matrix for evaluating wastewater systems. Attendees will be instructed on how to define a wastewater systems, the level of service, and criticality. Then they will learn how to assign likelihood of operational failure and triggers for taking action. Attendees will participate in completing an operational risk assessment utilizing this approach on a wastewater system. The intent of this training is to inform operators on how system risk can be used to make decisions and communicate system status.  Operational Task Planning Mark Walter WATERDUDE Solutions Task planning is a critical element of maintaining wastewater treatment plant operation. Developing a work process that supports effective task planning will help identify and reduce unintended outcomes. This training will introduce attendees to a task planning approach that includes risk assessment and plan development. Attendees will participate in a scenario-based task planning session to gain experience using this approach. That intent of this training is to inform operators on how to manage risk while performing operational tasks.  "Plan the Work, Work the Plan" Start up of the Tri-City Solids Handling Improvement Project	N C P E
1 1 2 2 2	11:30-12:30pm  Moderators: Hunter BD  12:30-1:00pm 1:00-2:00pm  Moderators:  2:00-2:10pm 2:10-3:10pm	Title: Presenter: Company/Organization: Brief Description:  Lunch Title: Presenter: Company/Organization:  Brief Description: Brief Description: Brief Description: Brief Description: Brief Description: Brief Description:	Mark Walter WATERDUDE Solutions Developing an approach to operational risk assessment is critical to managing wastewater operations. This training will define an approach to developing a risk matrix for evaluating wastewater systems. Attendees will be instructed on how to define a wastewater systems, the level of service, and criticality. Then they will learn how to assign likelihood of operational failure and triggers for taking action. Attendees will participate in completing an operational risk assessment utilizing this approach on a wastewater system. The intent of this training is to inform operators on how system risk can be used to make decisions and communicate system status.  Operational Task Planning Mark Walter WATERDUDE Solutions Task planning is a critical element of maintaining wastewater treatment plant operation. Developing a work process that supports effective task planning will help identify and reduce unintended outcomes. This raining will infroduce attended to the status of	P E
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11:30-12:30pm  Moderators: Hunter BD  12:30-1:00pm 1:00-2:00pm Moderators:  2:00-2:10pm 2:10-3:10pm Moderators:	Title: Presenter: Company/Organization: Brief Description:  Lunch Title: Presenter: Company/Organization:  Brief Description: Brief Description: Brief Description: Break Title:  Presenter: Company/Organization:  Brief Description: Break Title:  Brief Description:	Mark Walter WATERDUDE Solutions Developing an approach to operational risk assessment is critical to managing wastewater operations. This training will define an approach to developing a risk matrix for evaluating wastewater systems. Attendees will be instructed on how to define a wastewater systems. Attendees will be instructed on how to define a wastewater system, its level of service, and criticality. Then they will learn how to assign likelihood of operational failure and triggers for taking action. Attendees will participate in completing an operational risk assessment utilizing this approach on a wastewater system. The intent of this training is to inform operators on how system risk can be used to make decisions and communicate system status.  Operational Task Planning  Mark Walter  WATERDUDE Solutions  Task planning is a critical element of maintaining wastewater treatment plant operation. Developing a work process that supports effective task planning will help dentify and reduce unintended outcomes. The training will introduce attended to the process of the project on the project of the pr	P E N C

2 C
4:20-4:30pm Closing Remarks/Daily Wrap Up

Water Enviror			
June 14-16th 2			
		ntion: Industrial Pretreatm	ent, Stormwater, Reuse & Biosolids
UESDAT -	7:30-7:45am	Event Opens: Q&A, Getting	Started
1	7:45-8:00am 8:00-9:00am	Opening Announcements Title:	Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant
	Moderators:	Presenter: Company/Organization:	Russ Reasoner, Sr. IH/Randy Westmoreland
	1	Brief Description:	Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Consultant, and 5 years starting out as an IH compliance officer. Graduate with a B.S. in Molecular Biology at the
			University of Oregon and continued with graduate studies in Industrial and Environmental Toxicology at Portland State University. Randy Westmoreland CSP, CIT, Currently Industrial
			Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State
	2		University. Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)
2	9:00-9:10am 9:10-10:10am	Break Title:	Assessing Water Quality Improvement at the Carli Creek Regional Water Quality Project in Clackama
	Moderators:	Presenter: Company/Organization:	Chris Desiderati Water Environment Services
	1 Hunter BD	Brief Description:	Constructed wetlands are innovative, resilient, multi-benefit tools for managing urban stormwater. At the Carli Creek Regional Water Quality Project, learn how pollutant levels across the treatment
			wetland compare to water quality criteria, how much the wetland reduces pollutant loads, and how pollutant loading relates to
	2		environmental variables over time.
¥3	10:10-10:20am 10:20-11:20am	Break Title:	Steigerwald Lake National Wildlife Refuge Restoration Project
	Moderators:	Presenter: Company/Organization:	Chris Collins Estuary Partnership
	1 Akiko	Brief Description:	After two years of closure to complete the largest habitat restoration project in the lower Columbia River, Steigerwald Lake National Wildlife Refuge reopened to the public on May 1.
			Construction began in 2019 to reduce flood risk, reconnect and enhance 965 acres of Columbia River floodplain, and increase recreation opportunities at this popular urban refuge The project benefits juvenile salmon and steelhead migrating to the ocean by increasing the
			acreage of accessible Columbia River floodplain habitat between the Bonneville Dam and Willamette River by 19%. It also restored unobstructed access for salmonids and lamprey to
			the floodplain and Gibbons Creek watershed, created a total of 115 acres of new wetland habitat, and planted 250 acres of riparian habitat with 515,000 native bare roots and cuttings
			The \$31 million project also reduced flood risk, generated approximately 500 local jobs, and brought in more than \$67 million to the local economy. The presentation will provide an
	2 41:30 41:30am	Prosk	overview of the project, its benefits, and its effectiveness monitoring plan.
ŧ4	11:20-11:30am 11:30-12:30pm	Break Title:	Types of health, safety and ergonomic hazards and the hazard controls that are common place in the water/wastewater freatment processes
		Presenter:	processes waterwasewater treatment processes
	Moderators:	Company/Organization:	Russ Reasoner, Sr. IH/Randy Westmoreland OR-OSHA
	1	Brief Description:	On Control
			Russ Reasoner,
			Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Consultant, and 5 years starting out as an IH compliance officer. Graduate with
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			University.
			Randy Westmoreland CSP, CIT,
			Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.
			Presentation time: 1 hr. for each discipline H, S, & E
	2	OR-OSHA	(total 3 hrs.)
ł5	12:30-1:00pm 1:00-2:00pm	Lunch Title:	Options for Industrial Wastewater Treatment / Pretreatment
	Moderators:	Presenter:	Rich Owens Owens Pump
	1 Hunter BD	Company/Organization:	What are the current and future possible options for industrial wastewater treatment. We will describe what is currently being used, what advantages they have, and their disadvantages.
		Brief Description:	There will also be discussion on upcoming technologies that could replace the current technology
	2:00-2:10pm	Break	
#6	2:10-3:10pm	Title: Presenter:	Health, safety and ergonomics policies in Wastewater Treatment Russ Reasoner/Randy Westmoreland
	Moderators:	Company/Organization:	OR-OSHA
	•		Russ Reasoner,
			Currently Senior Industrial Hygienist for Oregon OSHA with
			30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Consultant, and 5 years starting out as an IH compliance officer. Graduate with
			a B.S. in Molecular Biology at the University of Oregon and continued with graduate studies in Industrial and Environmental Toxicology at Portland State University.
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			graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hydienist for Oreoon OSHA with 14 years
			graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.
	2	Brief Description:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and
	2 3:10-3:20pm 3:20.4:20pm	Break	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1. In for each discipline H, S. & E.
		·	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1. In for each discipline H, S. & E.
	3:10-3:20pm 3:20-4:20pm	Break Title: Presenter:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienis for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  Middintermal Processing for Westmater Solids.
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	3:10-3:20pm 3:20-4:20pm	Break Title: Presenter:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienat for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  James Oyler September 1 of Centifued that is are currently located in Altamonte Springs.  Florida. The company specificace in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently covered their Organic matter to biocrude oil and methane gas in less and pressures to efficiently covered their Organic matter to biocrude oil and methane gas in less and pressures to efficiently covered their Organic matter to biocrude oil and methane gas in less and pressures to efficiently covered their Organic matter to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to biocrude oil and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and methane gas in less and pressures to be biocruded and pressures to be biocrud
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	3:10-3:20pm 3:20-4:20pm	Break Title: Presenter:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienat for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  James Oyler is President of Genifued that is are currently located in Altamonte Springs.  Florida. The company specifizers in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert work organic matter to biocrude oil and methane gas in less than an hour. Mr. Oyler is the Founder and President of Genifued Corporation. Formed in 2006, Genifuel provides Hydrothermal Processing yealthen wet organic wastes, especially wastewater solids, by converting them into renewable fuels. Cernifuel has recently commissioned a pilot-scaled Hydrothermal Processing facility, and is currently in the engineering phase for several wastewater utilities in North America and Europe.
	3:10-3:20pm 3:20-4:20pm	Break Title: Presenter:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSH4 programs, Ginduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S. & E.  (total 3 hrs.)  Interest Cyler  President, Gentland Corporation  James Cyler is President of Gentland that is are currently located in Altamonte Springs.  Florida: The company specificaces in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to borrect ool and methane gas in les than an hour. Mr. Cyler is the Founder and President of Gentland Corporation. Formed in than an hour. Mr. Cyler is the Founder and President of Gentland Corporation. Formed in executive Commissioned a pilot-scale Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to borrect oil and methane gas in les than an hour. Mr. Cyler is the Founder and President of Gentland Corporation. Formed in executive Commission de a pilot-scale Hydrothermal Processing facility, and is currently in the engineering phase for several wastewater utilities in North America and Europe.  Mr. Cyler holds more than twenty patient issued or pending, as well as exclusive licenses to other patients for hydrothermal processing. Earlier, he held senior positions in energy consulting and corporate management leading to tweety even as CEO of a publicly-fraeded processing facility, and organic and the control of publicly-fraeded processing facility and organic and the control of publicly-fraeded programment leading to tweety even as CEO of a publicly-fraeded programment leading to tweety even as CEO of a publicly-fraeded programment.
ri .	3:10-3:20pm 3:20-4:20pm Moderators:	Break Title: Presenter:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  Bedienseme Processing Le Westweet 1988.  James Oyler is President of Genifued that is are currently located in Altamonte Springs, and pressure to efficiently convert with organic matter to become of the Processing (HTP) that uses temperature and pressure to efficiently convert with organic matter to become of the Processing Systems which the International Conference of the Processing Systems which eliminate wet organic waster, scale and pressure to efficiently convert with organic matter to become of the Processing Systems which eliminate wet organic waste, especially wastewater solids in Vinch America and Europe.  Mc Oyler holds more than twenty patents issued or pending, as well as exclusive licenses to other patents for hydrothermal Processing, Earlier, be feld senior positions in energy.
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<del>1</del> 7	3:10-3:20pm 3:20-4:20pm Moderators: 1	Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT.  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSH4 programs, Ginduate with a 8.5, and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E  (total 3 hrs.)  Interest Cyfer in President of Genifuel that is are currently located in Altamonte Springs, Fordat. The company specificaces in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in les than an hour. Mr. Oyler is the Founder and President of Genifuel Corporation. Formed in 2005, Genifuel provides Hydrothermal Processing systems which eliminate wet organic carectify commissioned a pilot-scale Hydrothermal Processing systems were eliminated to design of the company elements of the present of the present of the state of the present was executed unities in North America and Europe.  Mr. Oyler holds more than twenty patients issued or pending, as well as exclusive licenses to other patients for hydrothermal processing. Earlier, he held senior positions in energy consulting and corporate management leading to twelve years as CEO of a publicly-traded company.
IT TO THE STATE OF	3:10-3:20pm 3:20-4:20pm Moderators: 1 2 4:29-4:30pm W 06/15/2022 7:30-7:45am 7:48-8:00am	Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Gettin, Opening Announcements	University.  Randy Westmoreland CSP, CIT.  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs, Ginduste with a 8.5, and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E  (total 3 hrs.)  Interest Cyfer President, Gentlant Corporation  James Cyfer is President of Gentluel that is are currently located in Altamonte Springs, Florida. The company specificaces in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in les than an hour. Mr. Cyfer is the Founder and President of Gentluel corporation. Formed in 2005, Gentluel provides Hydrothermal Processing systems which eliminate wet organic recently commissioned a pilot-scale Hydrothermal Processing asystems were eliminated to de unique engineering phase for several wastewater utilities in North America and Europe.  Mr. Cyfer holds more than heverly patients issued or pending, as well as exclusive licenses to other patients for hydrothermal processing. Earlier, he held senior positions in energy consulting and corporate management leading to twelve years as CEO of a publicly-traded company.
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#7	3:10-3:20pm 3:20-4:20pm Moderators: 1 2 4:29-4:30pm W 06/15/2022 7:30-7:45am 7:48-8:00am	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W  Event Opens: G&A. Getting Opening Announcements Title: Presenter: Company/Organization:	graduate studies in Industrial Programs (Company Continued State University).  Randy Westmoreland CSP, CIT,  Currently Industrial Hygenist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S., & E (total 3 hrs.)  Behavior of the Company of t
WEDNESDA	3:10-3:20pm 3:20-4:20pm Moderators: 1 4:20-4:30pm W 06/15/2022 7:30-7:45am 7:48-8:00am 8:00-9:00am	Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Cetting Opening Announcements Title:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSH4 programs, Ginduste with a 8.5, and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr, for each discipline H, S, & E  (total 3 hrs.)  Interest Cyler  President, Gentinet Corporation  James Cyler is President of Gentinul that is are currently located in Altamonte Springs, Florida. The company specifiazes in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in les than an hour. Mr. Cyler is the Founder and President of Gentifuel Corporation. Formed in alman and the second of the Cyler is the Founder and President of Gentifuel Corporation. Formed in executive Commissioned a pilot-cated Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in les than an hour. Mr. Cyler is the Founder and President of Gentifuel Corporation. Formed in executive Commission of a pilot-cated Hydrothermal Processing facility, and is currently in the engineering phase for several wastewater utilities in North America and Europe.  Mr. Cyler holds more than twenty patents issued or pending, as well as exclusive licenses to other patents for hydrothermal processing. Earlier, he held senior positions in energy consulting and corporate management leading to twelve years as CEO of a publicly-traded company.  Tap Up
WEDNESDA	3:19-3:20pm 3:29-4:20pm Moderators: 1 2 2 4:29-4:30pm 4:29-4:30pm 4:29-4:30pm 7:49-6:40pm 7:49-6:40pm Moderators: 1 2	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W Event Opens: Q&A, Gettin, Opensing Announcements Title: Presenter: Company/Organization: Brief Description:  Break Title:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Oscupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S., & E (total 3 hrs.)  Bedindeneme Prosessing for Westernature Suita.  James Oyler President of Centifuel that is are currently located in Atlantonic Springs.  James Oyler President of Centifuel Proposition Processing of HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in less than an hour. Mr. Oyler is the Founder and President of Centifuel Corporation. Formed in 2006, Genifuel provides Hydrothermal Processing systems which eliminate wet organic vastes, especially wastewater solids. by converting them into nerveable tiest. Gentifuel as recording commissioned a plint-scale Hydrothermal Processing systems with eliminate wet organic vastes, especially wastewater solids. by converting them into nerveable tiest. Gentifuel Paragradis or several westewater solidies in North America and Europe.  Mr. Oyler holds more than twenty patents issued or pending, as well as exclusive licenses to other patents for Hydrothermal processing. Earlier, he held senior positions in energy consulting and corporate management leading to twelve years as CEO of a publicly-traded company.  Islande  Updates on the War Against Flushable Wipes  Frank Dick.  City of Vancouver Public Works
WEDNESDA	3:10-3:20pm 3:20-4:20pm Moderators: 1 2 2 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 4:20-4:	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements Title: Presenter: Company/Organization: Break Title: Presenter: Company/Organization:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S., & E (total 3 hrs.)  Industrial Prosessing to Westwards Suifus.  James Oyler President of Centifuel that is are currently located in Atlantonic Springs.  James Oyler President of Centifuel Toxicological Processing of HTD that uses imperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in less than an hour. Mr. Oyler is the Founder and President of Centifuel Corporation. Formed in 2006, Genifuel provides Hydrothermal Processing systems which eliminate wet organic vastes, especially wastewarter solids. by converting them into rerevalve lettes, Centifuel 18 are recently commissioned a plint-scale Hydrothermal Processing systems with eliminate wet organic vastes, especially wastewarter solids. by converting them into rerevalve lettes, Centifuel 18 are recently commissioned as plint-scale Hydrothermal Processing systems with eliminate wet organic versions, and the provides Hydrothermal Processing systems with eliminate wet organic versions, and the provides Hydrothermal Processing systems with eliminate wet organic versions, and the study of the provides Hydrothermal Processing systems with eliminate wet organic versions, and the study of the provides Hydrothermal Processing systems with eliminate wet organic versions, and the study of the provides Hydrothermal Processing systems with eliminate wet organic versions. The provides Hydrothermal Processing systems with eliminate wether organic versions. The provides the provides Hydrothermal Processing systems with eliminate versions. The provides recently organic versions and provides Hydrothermal processing systems with eliminate versions. The provides recen
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WEDNESDA	3:10-3:20pm 3:20-4:20pm Moderators: 1 2 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 2 4:20-4:30pm 3:00-3:00pm 4:20-4:30pm 4:20-4:	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements Title: Presenter: Company/Organization: Break Title: Presenter: Company/Organization:	graduate studies in Industrial Processing Company (September 2014)  Randy Westmoreland CSP, CIT,  Currently Industrial Hygenist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  Bioinformation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  James Oyler is President of Genifued that is are currently located in Altamonte Springs, Florida. The company specifizes in Hydrothermal Processing (HTP) that uses temperature than an hour. Mr. Oyler is the Founder and President of Genifued Company specifizes in Hydrothermal Processing (HTP) that uses temperature than an hour. Mr. Oyler is the Founder and President of Genifued company specifizes in Hydrothermal Processing (HTP) that uses temperature than an hour. Mr. Oyler is the Founder and President of Genifued corporation. Formed in 2006, Genifued provides Hydrothermal Processing systems which eliminate vet organic wastes, especially wastewater solids. by converting them into nerewalte flucts. Genified letter, and the strength of the Hydrothermal Processing systems which eliminate vet organic wastes, especially wastewater solids. by converting them into nerewalte flucts. Genified letter, and the strength of the st
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WEDNESDA	3:10-3:20pm 3:20-4:20pm Moderators: 1 4:20-4:30pm Moderators: 1 2 2 4:20-4:30pm 4:20-4:30pm 4:20-4:30pm 7:45-8:00am 8:00-9:00am 8:00-9:00am 8:00-9:00am 9:00-9:00am 1:00-9	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W Event Opens: Q&A. Getting Opening Announcements Title: Brief Description:  Break Title: Break Title: Break Brief Description:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.)  Interest of the Comment of the County of the Comment of Comments of the County of t
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WEDNESDA #8	3:19-3:20pm 3:29-4:20pm Moderators:  1  2  4:29-4:30pm Moderators: 1  4:29-4:30pm Moderators: 1  1  2  3:00-3:103m Moderators: 1  1  3:00-3:103m Moderators: 1  1  2  3:00-3:103m Moderators: 1  2  3:00-3:103m Moderators: 1	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W Event Opens: Q&A. Getting Opening Announcements Title: Break Title: Company/Organization: Brief Description:  Break Title: Break Title: Presenter: Company/Organization: Brief Description:	graduate studies in Industrial and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CIT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSH4 programs, Ginduste with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oktahoma State University.  Presentation time: 1 hr. for each discipline H, S. & E.  (total 3 hrs.)  Interest of the Common State University of the Common State University.  Presentation time: 1 hr. for each discipline H, S. & E.  (total 3 hrs.)  Interest Oyler is President of Genifuel that is are currently located in Altamonte Springs, Florida. The company specifiazes in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in les than an hour. Mr. Oyler is the Founder and President of Genifuel Corporation. Formed in an an organic program of the Common State University of the State of State University of the State of State University of the State Organic Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in les than an hour. Mr. Oyler is the Founder and President of Genifuel Corporation. Formed in an an organic program of the State of t
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#10 #11	3:19-3:20pm 3:29-4:20pm Moderators: 1  2 4:29-4:30pm Moderators: 1  2 4:29-4:30pm Moderators: 1  2 4:29-4:30pm Moderators: 1  4:29-4:30pm Moderators: 1  2 4:29-4:30pm Moderators: 1  2 4:29-4:30pm Moderators: 1  2 4:10-10-10-10-10-10-10-10-10-10-10-10-10-1	Break Title:  Presenter: Company/Organization:  Brief Description:  Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements Title: Break Title: Break Title: Company/Organization: Brief Description:  Break Title: Presenter: Company/Organization: Brief Description:  Break Title: Presenter: Company/Organization: Brief Description:  Break Title: Break Title: Breschiption: Break	graduate studies in Industrial Application and Environmental Toxicology at Portland State University.  Randy Westmoreland CSP, CTT,  Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management from Southeastern Oklahoma State University.  Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 3 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S. & E. (total 4 hrs.)  Industrial Presentation time: 1 hr. for each discipline H. S.
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1			Building Support for a Clean Water Future
			Background: Clackamas Water Environment Services (MES) provides clean water conjugate to more than 200,000 people within
			Services (WES) provides clean water services to more than 200,000 people within Clackamas County. WES serves seven cities, plus urban and rural unincorporated
			areas. After the recent consolidation of sewer and surface water districts, WES created a new brand to unify its services around its shared mission to protect
			public health and the environment, and the region's economic vitality.
			Issue: The WES regionalized story
			is complex and often misunderstood. In addition, today's clean water utilities face a broad range of complex challenges, including rising costs and affordability, aging infrastructure, shifting regulatory requirements, enhanced customer
			expectations, competing stakeholder demands, and climate challenges. In
			addition, we're invisible.
			Approach: In 2021, WES planned and
			delivered a robust community engagement and discovery process called the Clean Water Exchange (Exchange). Participants in the Exchange ranged from stakeholders
			vested in WES' future, programs, and services to ratepayers with less existing familiarity with us and our services. To steer the process WES developed the
			following goals:
			Strengthen customer and stakeholder understanding,     Create new clean water partnerships and advocates, and
			Build trust through enhanced connections.
			In response to the Exchange four strategic initiatives were created. The strategies were used to develop a Communications and Engagement Roadmap which will
			help WES chart a course for continuous improvement with its customers and stakeholders with the objective of engendering support for current and future watershed
			projects and programs. In addition, the Roadmap paints a picture for a more connected and inclusive future with the many diverse stakeholders, communities
			and people WES serves.
			Learn how your agency can adapt WES' model to chart a course for continuous improvement with your customers and stakeholders!
			Learning outcomes include:
			How to establish meaningful research and engagement goals that drive results  A review of the various research approaches and methodologies deployed in the WES.
			<ul> <li>A review of the various research approaches and methodologies deployed in the WES Clean Water Exchange and how to leverage them for your own use</li> </ul>
			Advice on how to translate feedback and data into meaningful and measurable goals
		Brief Description:	intentionally designed to enhance stakeholder understanding, create new clean water champions, and build support for future watershed projects and programs
2	2		Shelly Parini-Runge is a passionate community builder, her career strengths include strategic communications, designing results-driven community engagement initiatives and raising
1			communications, designing results-driven community engagement initiatives and raising support for critical public infrastructure projects. Her inclusive style provides a practical way to facilitate community-centered conversations that build trust and illuminate the roles that
1			to racilitate community-centered conversations that build trust and illuminate the roles that dialogue, social-networks, and leadership play, in creating and navigating sustainable change.
1			Prior to working for Clackamas Water Environment Services in an External Affairs leadership
			Tole, Shelly led Clackamas Community College's Advancement and Government Affairs  Department for more than a decade.
1			Shelly holds a Bachelor of Arts in Theater and Communications from Arizona State University
1			and a Master of Arts in Organizational Communications from Marylhurst University. Shelly also serves on the Oregon ACWA Education Committee as Vice Chair and recently the
1			WateReuse Pacific Northwest Board of Trustees.
			Submitted by: Shelly Parini-Runge
	2:00-2:10pm	Break	Clackamas Water Environment Services
#13	2:10-3:10pm	Title:	Fernhill Wetlands for Tertiary Treatment of Wastewater
		Presenter:	Leila Barker CWS Fernhill Wetlands
	Moderators:		
1		Company/Organization: Brief Description:	Clean Water Services Creating habitat with secondary effluent while meeting NPDES treatment requirements
2	2		The second of the second sequences of the second sequential requirements
	3:10-3:20pm 3:20-4:20pm	Break Title:	
#14			Quality of Biogas Derived from Wastewater Solids and Co-digested Organics – A Characterization Study
#14		Presenter:	Bhargavi Subramanian
-	Moderators:	Company/Organization:	Kennedy Jenks Dr. Bhargavi (Gavi) Subramanian is a Staff
			Scientist in the Applied Research Group based out of the San Francisco Bay Area offices of Kennedy/Jenks Consultants. Her focus areas include co-digestion of
			organic wastes, digestion operations optimization, digester foaming guidance, pilot and full-scale wastewater studies. Gavi regularly works with wastewater
l			utilities on optimization of digester operations. She has nearly 5 years of experience in research and technology development of wastewater treatment. Gavi
		Brief Description:	utilities on optimization of digester operations. She has nearly 5 years of experience in research and technology development of wastewater treatment. Gavi earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago.
2	2 Hunter BD	Brief Description:	experience in research and technology development of wastewater treatment. Gavi earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago.
	4:20-4:30pm	Brief Description:  Closing Remarks/Daily W	experience in research and technology development of wastewater treatment. Gavi earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago.
THURSDAY	4:20-4:30pm	Closing Remarks/Daily W	experience in research and technology development of wastewater treatment. Gavi earned her Ph. D. in Environmental Engineering from Illinois Institute of Technology, Chicago.
THURSDAY -	4:20-4:30pm  - June 16  7:30-7:45am  7:45-8:00am	Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements	experience in research and technology development of wastewater treatment. Gavi earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago.  Tap Up  Started
	4:20-4:30pm - June 16 7:30-7:45am	Closing Remarks/Daily W	experience in research and technology development of wastewater treatment. Gavi earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago.  Tap Up  Started  Introduction to Your DEQ Online Jessica Lorenz, Your DEQ Online Jessica Lorenz, Your DEQ Online Change
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THURSDAY -	4:20-4:30pm  June 16 7:30-7-45am 7:45-8:00am 8:00-9:00am  Moderators:  9:00-9:10am 9:10-10:10am	Closing Remarks/Daily W  Event Opens: Q&A, Getting Opening Announcements Title: Presenter:  Brief Description:  Break Title: Presenter: Company/Organization:	experience in research and technology development of wastewater treatment. Gavi earned ner Pib. In Environmental Engineering from Illinois institute of Technology, Chicago.  Pap Up  Started  Introduction to Your DEQ Online  Introduction to Your DEQ Online  Jessica Lorenz, Your DEQ Online Trainer and Margaret Gardener, Your DEQ Online Change Manager  Over the next two years, Your DEQ Online will bring most of DEQ's application, payment and reporting processes into one cloud-based platform. This presentation will provide an overview of what to expect for this new platform called Your DEQ Online. There will also be a brief demonstration of the application process and key features of the system.  Wastewater Collections and Treatment ABC Certification Review  Matthew LaForce  Clackams Community College  OESAC # 9425 - La Force received his Masters of Science degree in geology and his doctoral degree in soil science working in inorganic environmental chemistry from the University of Idan.  After completing his Ph.D., Doctor LaForce was a research associate at Sanford University Inn.
THURSDAY -	4:20-4:30pm  June 16 7:30-7-45am 7:45-8:00am 8:00-9:00am  Moderators:  9:00-9:10am 9:10-10:10am	Closing Remarks/Daily W  Event Opens: Q&A, Getting Opening Announcements Title: Presenter:  Brief Description:  Break Title: Presenter: Company/Organization:	experience in research and technology development of wastewater treatment. Gavi earned her Ph.D. in Environmental Engineering from Illinois institute of Technology, Chicago.  By Up  Started  Introduction to Your DEQ Online Introduction to Your DEQ Online Assista Lorenz, Your DEQ Online Assista Lorenz, Your DEQ Online will bring most of DEQ's application, payment and reporting processes into one cloud-based platform. This presentation will provide an overview of what to expect for this new platform adied Your DEQ Online Technology of what to expect for this new platform adied Your DEQ Online. There will also be a brief demonstration of the application process and key features of the system.  Westewater Collections and Treatment ABC Certification Review Matthew La Force CESAC # 9429- Dr. La Force received his Masters of Science degree in geology and his doctoral degree in sold science working in inorganic revironmental chemisty from the University of fidaho.  After completing his Ph.D., Doctor La Force was a research associate at Sanford University
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#15 #16 #17 #18 #18 #18 #18	4:20-4:30pm June 16	Closing Remarks/Dally W  Event Opens: Q&A, Getting Opening Announcements Title: Presenter:  Brief Description:  Break Title: Presenter: Company/Organization: Brief Description:  Break Title: Presenter: Company/Organization: Brief Description:	experience in research and technology development of wastewater treatment. Gavi earned ner PLD. in Environmental Engineering from Illinois Institute of Technology, Chicago.  ### PUP    Started
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#18 #19 #20	### 420-4:30pm  June 16  7:30-7:458-00am  7:45-6:00am  8:00-9:00am  Moderators:  ###################################	Closing Remarks/Dally W  Event Opens: Q&A, Getting Opening Announcements Title: Presenter:  Brief Description:  Break Title: Presenter: Company/Organization: Brief Description:  Break Title: Presenter: Company/Organization: Brief Description:	experience in research and technology development of wastewater treatment. Gavi earned ner Pib. In Environmental Engineering from Illinois Institute of Technology, Chicago.  ### Pup    Started
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Movies for OESAC Approval				
Title	Description	TIME	Requested CEUs	Link for Water Env. School 2
LAST CALL TO THE OASIS	Water. It's the earth's most valuable resource. Our cities are powered by it, countless industries depend on it and all living things need it to survive. But it's very possible that in the near future, there won't be enough to sustain life on our planet. This movie sheds light on the vital role water plays in our lives, exposes the defects in the current system, shows communities already struggling with its ill effect and introduces us to individuals who are championing revolutionary solutions.	105 minutes for movie/15 minute Q & A	0.2	
LIQUID ASSETS	Water infrastructure plays a critical role in protecting public health, promoting economic prosperity, and ensuring quality of life across the United States. Though largely out of sight and out of mind, many of these complex systems are aging, neglected and in need of immediate national and local attention. This movie seeks to facilitate local discussions about the urgent challenges facing our water infrastructure.	130 MINUTES	0.2	Link not available.
WATERLIFE	Waterlife is an immersion into the extraordinary beauty and complex toxicity of the Great Lakes. Following the epic cascade from Lake Superior to the Atlantic Ocean. Waterlife remind us of our essential connection to the water we take care of everyday.	109 MINUTES FOR MOVIE/11 MINUTES Q & A	0.2	
EARTH DAYS	Earth Days looks back to the dawn and development of the modern environmental movement—from its post-war rustlings in the 1950s and 1962 publication of Rachel Carson's incendiary bestseller Silent Spring, to the first wildly successful 1970 Earth Day Celebration and the subsequent firestorm of political action.  Earth Days' secret weapon is a one-two punch of personal testimony and rate archival media. The extraordinary stories of the era's pioneers are illustrated with an incredible array of footage from candy-colored Eisenhauer-era tableau to classic tear-jerking 1970s anti-litter bug PSAs. Directed by acclaimed documentarian Robert Stone this AMERICAN EXPERIENCE film is both a poetic meditation on man's complex relationship with nature and engaging history of the revolutionary achievements—and missed opportunities—of groundbreaking eco-activism.	102 MINUTES MOVIE/18 MINUTES Q & A	0.2	
POISONED WATERS	More than three decades after the Clean Water Act, two iconic waterways—the great coastal estuaries of Puges Sound and the Chesapeak Bay—are in perilous condition. With polluted runoff still flowing in from industry, agriculture and massive suburban development, scientists fear contamination to the food chain and drinking water for millions of people. A growing list of endangered species also is threatened in both estuaries. <b>POISONED WATERS</b> examines the rising hazards to human health and the ecosystem and why it's so hard to keep our waters clean.	120 MINUTES	0.2	
BLUE GOLD WORLD WATER WARS	Wars of the future will be fought over water, as they are today over oil, as the source of all life enters the global marketplace and political arena. Corporate giants, private invenstors, and corrupt governments vie for control of our dwindling fresh water wupply, promptin protests, lawsuits, and revolutions from citizens fighting for the right to survive. Past civilizations have collapsed from poor water management. Will ours too?	90 minutes movie/30 minutes Q & A	0.2	

	Water En	vironment School 2021 Committee Ros
Name	Section	Agency
Andersen, Jeannie	Stormwater	Clackamas Water Environment Services
Bennett-Daggett, Hunter	Collections	Tetra Tech
Busby, Erin	Collections	Veolia - City of Sandy
Collofello, Ami	College Admin Support	ccc
Drew, Phil	Safety & Health	Saddle Mountain Safety Management
Duffy, Erin	Registration	Clackamas Water Environment Services
Gates, Akiko	Stormwater	Clackamas Water Environment Services
Grimes, Brittany	Pretreatment	City of Portland
Hart, Jeff	Asset Management/Technology/Activated Sludge	Clean Water Services
LaForce, Matt	College Liaison	Clackamas Community College
Laney, Brett	Water Resource Recovery	Clean Water Services
Lewis, John	College Liaison	Clackamas Community CollegeRetired
Nagy, John	Stormwater	Clackamas Water Environment Services
Nurmi, Jim	College Liaison	Clackamas Community College
Owen, Chad	ORWEF Treasurer	
Owens, Tim	Vendors	Correct Equipment
Patterson, Bob	Stormwater	Clark County
Sether, Naomi	College Admin Support	ccc
Swann, Andria	Pretreatment	City of Sumner. WA
West, Judy	Safety & Health	Clean Water Services
Zak, Matt	Operations and Maintenance	Clackamas Water Environment Services