| | | | Contact List: O& M: Matt Zak, Dustin Thorson Safety: Ross Johnston, Lisa McBride Collections: Hunter Bennett-Daggett, Jason Hoye | | | | |
|--------------|--------------------------------|--|--|----------------------|---|---|--|
| Water Enviro | nment School | | | | | | |
| June 14-16th | 2022 | na 8 Maintananaa Safatu Accat M | anagoment | | | | |
| TUESDAY - | June 14 | ons & Maintenance, Salety, Asset M | anayement | | | | |
| | 7:30-7:45am 7:45-8:00am | Event Opens: Q&A, Getting Started Opening Announcements | | | | | |
| #1 | 8:00-9:00am | Title: Presenter: | Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant Russ Reasoner. Sr. IH/Randy Westmoreland | Phone: | (Shared between all 3 tracks) | | |
| 1 | Moderators: | Company/Organization: | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years workin | Email: | | | |
| 2 | | Bhei Description. | | Confirmed? | | | |
| #2 | 9:00-9:10am 9:10-10:10am | Break Title: | Utility Locating 101 | | | | |
| | Moderators: | Presenter: Company/Organization: | Geoff Robinson Cimco PNW | Email: | | | |
| 1 | Hunter BD | Brief Description: | This course will cover the challenges of locating underground utilities, common location techniques, steps to build a comprehensive locating | | | | |
| 2 | | | system, and common dos and don'ts of utility locating. Bio: Geoff Robinson has over 25 years experience in the water-related | Notes: | | | |
| | 10:10-10:20am | Break | products industry. | Confirmed? | Yes | | |
| #3 | 10:20-11:20am | Title: | Collections Plugging Solutions | Dhanai | | | |
| | Moderators: | Company/Organization: | Owens Pump | Email: | Rich Owens' <rich@owenspump.com></rich@owenspump.com> | | |
| 1 | Hunter BD | Brief Description: | What types of items are being found in wastewater collections, and what types of pumps are available to prevent collections plugs. We discuss the | | | | |
| 2 | | | advantages and disadvantages of each design, and concept. | Notes: Confirmed? | yes, MZ | | |
| #4 | 11:20-11:30am 11:30-12:30pm | Break Title: | Easements / Access Rights for Utilities | | | | |
| | Madaratara | Presenter: | Sarah Liljefelt | Phone: | | | |
| 1 | moderators. | Brief Description: | Learn best practices for obtaining and confirming access rights and the scope | Linaii. | | | |
| 2 | | | 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 | Notes: | | | |
| | | | due diligence review, permitting, extensions, transfers, mitigation, and cancellation; water-related real property issues, including easements, | | | | |
| | | | incenses, right-or-ways, and well share agreements; real property disputes, including prescription, adverse possession, and condemnation; public records, meetings, and contracting compliance, water quality and water to | | | | |
| | | | regulation compliance; administrative adjudications, judicial review of agency orders, and state and federal civil lititation and anneals. | Confirmed? | Yes | | |
| #5 | 12:30-1:00pm | Lunch Title: | Corroded Manhola Assessment Bohahilitation Designment Constantio | | | | |
| C# | 1:00-2:00pm | Presenter: | Neil Jenkins, P.E. and Chris Kossow | Phone: | | | |
| 1 | Moderators: Hunter BD | Company/Organization: | Eagle Sewer District Concrete manholes should have more structural strength than peanut butter, | Email: | | | |
| | | | 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. | | | | |
| | | | 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 pearly 10.feet | | | | |
| | | | of 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 | | | | |
| | | | 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. | | | | |
| | | | 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. | Notes: | | | |
| 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 supervision 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 | | | | |
| | 2:00-2:10pm | Break | District. He also leads the wastewater operations team for the District. | Confirmed? | Yes | | |
| #6 | 2:10-3:10pm | Title: | Implementation of Telemetered Water Quality Sensors in the Sanitary Collection System | | | | |
| | Moderatore | Presenter: Company/Organization | Scott Mansell, Ph.D. Clean Water Services | Phone: Email: | | | |
| 1 | | | Clean Water Services has been developing telemetered, continuous water quality sensing network for the senitory collection surface 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. | Notes: | | | |
| 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 | | | | |
| | | | reaus unee main areas of research related to advanced sensing, trace organics and emerging contaminants, and advanced modeling. Scott earned a PDD in Environmental Engineering from U.C. Pacifalinia 2010 and the sensitive sensitive sensitive for the sensitive sena | | | | |
| | 2.10 2.20 | Prosk | worked in both the private and public sectors since. | Confirmed? | Yes | | |
| #7 | 3:20-4:20pm | Title: | Assessment of Critical Dependencies for Rapid Disaster Recovery | | | | |
| | Moderators: | Presenter: Company/Organization: | Wayne Gresh Carollo Engineers | Phone: Email: | | | |
| 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 | | | | |
| | | | Pran. MWMC identified and assessed critical dependencies that could substantially impact their ability to respond and recover from the natural directory. The collaboration of the utility of the transfer of the sub- | | | | |
| | | Brief Description | unsectors. The contationative effort with start identified actions that would help MWMC prepare for any disaster event and minimize the potential for cascading failures. | Notes | | | |
| 2 | 4.00 4.00 | Clasing Demode/Dell 111 | Bio: Wayne Gresh is a project manager for Carollo Engineers. | Confirmed? | Yes | | |
| | +:20-4:30pm | Cidsing Remarks/Daily Wrap Up | | | | | |
| WEDNESD | 06/15/2022 7:30-7:45am | Event Opens: Q&A, Getting Started | | | | | |
| #8 | 7:45-8:00am | Opening Announcements | Lindates on the War Against Elivisiable Missos | | (Shared between all 2 tracks) |] | |
| | 5.00-3.00am | Presenter: | Frank Dick, Wastewater Engineering Supervisor | Phone: | touring nerveen and tracks) | | |
| 1 | Moderators: | Company/Organization: Brief Description: | City of Vancouver, WA This presentation will provide an update to last year's presentation on work by utility | Email: | | | |
| | | | representatives and manufacturers to get state wipes labeling legislation passed. We will identify wastewater system issues with flushed wipes, and hear about working being done on the local networks and interactional thread the address with | | | | |
| | | | through laws and policy. | Notes: | Yes | | |
| 2 | 9:00-9:10am | Break | | eenmed? | | | |
| #9 | 9:10-10:10am | Presenter: | Joining Forces in the Fight Against I/I Jessica Rinner, P.E. | Phone: | | | |
| | Moderators: | Company/Organization: | Water Environment Services | Email: | | | |

| 1 | | Brief Description: | Clackamas Water Environment Services (WES) completed a collection | | | | |
|--|---|--|---|--|--|--|--|
| | | Brief Beeeription. | 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 | | | | |
| | | | as WES owned infrastructure. Every 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 | | | | |
| | | | jurisdictions simultaneously. The consulting contract will identify the sources | | | | |
| | | | of the I/I and design rehabilitation projects to remove it. | | | | |
| | | | I he 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 | | | | |
| | | | the designs when applying the same standards across multiple sets of | | | | |
| | | | construction documents. These are just a few of the financial benefits of | | | | |
| | | | 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. | Notes: | | | |
| 2 | | | 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 lensure their sewer system in in good condition and can effectively protect the | | | | |
| | | | health of the public and the environment. | Confirmed? | Yes | | |
| | 10:10-10:20am | Break | | | | | |
| #10 | 10:20-11:20am | Title: Brecontor: | Modern Tools for Condition Assessments in Collection Systems | Phone: | | | |
| | Moderators: | Company/Organization: | National Plant Services. Inc. | Email: | | | |
| 1 | | Brief Description: | This presentation will discuss new methods of conducting condition | | | | |
| | | | assessments in collection systems, including CCTV, multi sensor inspections | | | | |
| | | | smoke testing, time lapse manhole cameras. | Notes: | | | |
| 2 | | | Bio: Michelle Beason is an industry leader in the maintenance and trenchless | | | | |
| | | | 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. | Confirmed? | Yes | | |
| #44 | 11:20-11:30am | Break | Conitory Course Lateral lacer of the second Links | | | | |
| #11 | 11:30-12:30pm | Presenter | Samary Sewer Lateral Inspection and Lining Michelle Beason, P.F. | Phone: | | | |
| - | Moderators: | Company/Organization: | National Plant Services, Inc. | Email: | | | |
| 1 | | | 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 troot a history | | | | |
| | | | 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 | | | | |
| | | | Inspecting and repairing laterals, including CCTV inspection, cleaning and root cutting, main-to-house (MTH) lining, connection repair, and sealing with | | | | |
| | | Brief Description: | chemical grout. | Notes: | | | |
| 2 | | | Bio: Michelle Beason is an industry leader in the maintenance and trenchless | | | | |
| | | | professional engineering and management experience spanning 29 years in | | | | |
| | | | Public Works including: Asset Management practices, planning and design of | | | | |
| | | | maintenance, project management, engineering consulting, and construction | | | | |
| | 10.00 1.00 | 1 | of trenchless rehabilitation solutions. | Confirmed? | Yes | | |
| #12 | 12:30-1:00pm 1:00-2:00pm | Lunch Title: | Odor Control in Collection Systems | | | | |
| | | Presenter: | John Sawyer | Phone: | | | |
| | Moderators: | Company/Organization: | BioAir Solutions | Email: | | | |
| 1 | | Brief Description: | Describe sources, pathway and control of collection system vapor phase | | | | |
| | | | system and the potential pathways of escape, with potential solutions to | | | | |
| | | | contain and eliminate odors and gases. | Notes: | | | |
| 4 | | | bio. John Sawyer has more than 15 years experience in the water- | | N | | |
| | | | wastewater industry. | Confirmed? | res | | |
| | 2:00-2:10pm | Break | wastewater industry. | Confirmed? | Yes | | |
| #13 | 2:00-2:10pm 2:10-3:10pm | Break Title: | DAS Screens - An Alternative to Grinders and Chopper Pumps | Confirmed? | | | |
| #13 | 2:00-2:10pm 2:10-3:10pm | <mark>Break</mark> Title: Presenter: | wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken | Confirmed? Phone: | | | 503.867.471 7 |
| #13 | 2:00-2:10pm 2:10-3:10pm Moderators: | Break Title: Presenter: Company/Organization: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken | Confirmed? Phone: | | | 503.867.471 7 alden. |
| #13 | 2:00-2:10pm 2:10-3:10pm Moderators: | Break Title: Presenter: Company/Organization: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation | Confirmed? Phone: | | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 | 2:00-2:10pm 2:10-3:10pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: | wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "Flushable" wipes are a big problem in collection systems and headworks. | Confirmed? Phone: Email: | | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 | 2:00-2:10pm 2:10-3:10pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "Flushable" wipes are a big problem in collection systems and headworks. The Dual Auger System uses existing technologies to capture and remove reas and other nume-fluction reheits while keeping promotes more more in the collection. | Phone: Email: | | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 | 2:00-2:10pm 2:10-3:10pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: | Wastewaler industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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 overwise workew for how the system works. | Phone: Email: | | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 | 2:10-2:10pm 2:10-3:10pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. | Confirmed? Phone: Email: Notes: | | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 1 | 2:00-2:10pm 2:10-3:10pm Moderators: | Break Title: Title: Presenter: Company/Organization: Brief Description: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a reactional sales manager for Duperon. | Confirmed? Phone: Email: Notes: Confirmed? | Yes | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 | 2:00-2:10pm 2:10-3:10pm Moderators: 3:10-3:20pm | Break Title: Presenter: Company/Organization: Brief Description: Break | Wastewaler industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. | Confirmed? Phone: Email: Notes: Confirmed? | yes | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 1 2 #14 | 2:00-2:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm | Break Title: Presenter: Company/Organization: Brief Description: Break Title: | Wastevaler industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadside Emergencies & Hazard Awareness | Confirmed? Phone: Email: Notes: Confirmed? | yes | | 503.867.471 7 alden. meade@xyle minc.com |
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| #13 1 2 #14 | 2:00-2:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Brief Descriptio | Wastevaler industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Ahen has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadside Emergencies & Hazard Awareness Dustin Ross ODOT Public Workers are on the roads all day. It's just a matter of time hefore you | Confirmed? Phone: Email: Notes: Confirmed? Phone: Email: | Yes | | 503.867.471 7 alden. meade@xyle minc.com |
| #13 1 2 #14 1 | 2:00-2:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Brief Description: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadside Emergencies & Hazard Awareness Dustin Ross ODOT Public Workers are on the roads all day, it's just a matter of time before you could be first on scene with one of these hazards, will you know what to do? | Confirmed? Phone: Email: Notes: Confirmed? Phone: Email: | yes | | 503.867.471 7 alden. minc.com |
| #13 1 2 #14 1 | 2:00-2:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Brief Description: | Wastewaler industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadside Emergencies & Hazard Awareness Dustin Ross ODOT Public Workers are on the roads all day, it's just a matter of time before you could be first on scene with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could one first ones while working on our roadways: mort wehicle crashes | Phone: Email: Notes: Confirmed? Phone: Email: | yes | | 503.867.471 7 alden. minc.com |
| #13 1 2 #14 1 | 2:00-2:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm Moderators: | Break Title: Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Brief Description: | Wastevaler industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadside Emergencies & Hazard Awareness Dustin Ross ODOT Public Workers are on the mads all day, it's just a matter of time before you could be first on scene with one of these hazards, will you know what to da? Hazmat splis, supplicidua persons, crime scene, etc. | Confirmed? Phone: Email: Confirmed? Phone: Email: Notes: Notes: | yes | | 503.867.471 7 alden. minc.com |
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| #13 1 2 #14 1 1 2 #14 1 1 1 2 #15 1 1 2 #16 1 1 2 #17 1 1 2 #14 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2:00-2:10pm 2:10-3:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm Moderators: Hunter BD 4:20-4:30pm June 16 7:30-7:45am 7:45-8:00am Moderators: 9:00-9:10am 9:10-10:10am Moderators: 10:10-10:20am 10:20-11:20am Moderators: Hunter BD 11:20-11:30am | Break Title: Presenter: Company/Organization: Brief Description: Brief Description: Company/Organization: Brief Description: Closing Remarks/Daily Wrap Up Event Opens: Q&A, Getting Started Opening Announcements Title: Presenter: Brief Description: Brief Descri | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation "Fulsabale" 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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadslide Emergencies & Hazard Awareness Dustin Ross ODOT Public Workers are on the roads all day, it's just a matter of time before you could be first on scene with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could be first on scene with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could be first on scene with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could be first on scene with one of these hazards. Bio: Dustin Ross is a training specialist for ODOT. Introduction to Your DEQ Online Trainer and Margaret Gardener, Your DEQ Online Change Manager Over the next two years, 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 Cimco PNW This course will cover why, where, and when air valves are needed in collection systems. We will discuss how to select appropriate air valves to products industry. Evaluating Indicators of Anaerobic Digestion Stability Omella Sosa-Hernandez CWS Anaerobic digestion is a very robust process as long as feed composition, feed rates, and stable operating conditions are maintained and reasonable valiat solids reduction and gas productions sy the mostability to Anaerobic digestion is | Confirmed? Phone: Email: Notes: Confirmed? Phone: Email: Phone: Phone: Email: Phone: Phone: Email: Phone: Email: Phone: Email: Phone: Email: Phone: Email: Phone: Phone: Email: Phone: Phone: Email: Phone: | Yes | | 503.867.471 7 alden. minc.com |
| #13 1 2 #14 1 1 1 2 #14 1 1 2 #15 1 2 #15 1 2 #16 1 2 #17 1 1 2 #17 1 2 #14 1 2 #14 1 2 #14 1 2 #14 1 2 #14 1 2 #15 1 2 #15 1 2 #16 1 2 #17 2 #17 1 2 #17 1 2 #17 2 #17 1 2 #17 #17 #17 #17 #17 #17 #17 #17 | 2:00-2:10pm 2:10-3:10pm 2:10-3:10pm Moderators: 3:10-3:20pm 3:20-4:20pm Moderators: Hunter BD 4:20-4:30pm 7:45-8:00am 8:00-9:00am 0:00-9:00am 9:00-9:10am 9:10-10:10am Moderators: 9:00-9:10am 10:10-10:20am 10:20-11:20am 10:20-11:20am Moderators: Hunter BD 11:20-11:30am | Break Title: Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Brief Description: Closing Remarks/Daily Wrap Up Event Opens: Q&A, Getting Started Opening Announcements Title: Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Break Title: Presenter: Company/Organization: Brief Description: | Wastewater industry. DAS Screens - An Alternative to Grinders and Chopper Pumps Steve Aiken Duperon Corporation 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. Bio: Steve Aiken has more than 40 years experience as a wastewater operator and now serves as a regional sales manager for Duperon. Roadside Emergencies & Hazard Awareness Dustin Ross ODOT Public Workers are on the roads all day, it's just a matter of time before you could be first on scene with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could come across withis one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could come across with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could come across with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could come across with one of these hazards, will you know what to do? This session will cover the awareness of the many unexpected hazards you could come across with one Of Inner Trainer and Margaret Gardener, Your DEQ Online Change Manager Over the next two years, Your DEQ Online Ar Mitigation in Fluid Conveyance Systems (Air Valves) Geoff Robinson Cimco PNW This course will cover why, where, and when air valves are needed in collection systems. We will discuss how to select appropriate air valves to protect the integrity of a new or existing collection system. Bio: Geoff Robinson has over 25 years experience in the water-related products industry. Evaluating Indicators of Anaerobic Digestion Stability Omella Sosa-Hernandez CWS Anaerobic diges | Confirmed? Phone: Email: Confirmed? Phone: Email: Confirmed? Phone: Email: Phone: Email: Confirmed? Phone: Email: Notes: Confirmed? Phone: Email: | Yes yes yes yes Yes Yes Yes Yes | | 503.867.471 7 alden. minc.com |

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| 1 | Hunter BD | Brief Description: | More than 40 years ago, area/velocity (AV) meters brought a new way to measure oblication 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 O=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 weaks AV meters. The results call into question the effectiveness of depth- veny meters' usage for assessing I/I given the potential for significant and switchiness urgredictable error. More impactfully, misleading data may drive utilities to incorrectly conclude which basins are a priority for infrastructure investments. While the initial lure of depth-only meters usage for assessing the potential for significant and sweltments. While the initial lure of depth-only meters are promises to save throusands during the I/I assessment phase, an unnecessary upgrade in the wrong basin pats hundreds of throusands, possibly millions of dollars at risk. Bio: Jay Boyd has 20-plus-years' experience in the water-waterwater | Notes: | | | |
| | | | industry. | Confirmed? | Yes | | |
| | 12:30-1:00pm | Lunch | | | | | |
| #19 | 1:00-2:00pm | Title: | Sample Collection & Sampling Plans - Best Practices | | | | |
| | | Presenter: | Erika Schwender | Phone: | | | |
| | Moderators: | Company/Organization: | Professional Training Association | Email: | | | |
| 1 | | Brief Description: 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 collarions can lead to misileading conclusions and invalidated regulatory samples or investigatory studies. This is why developing a sample collection plan is essential for any compliance related monitoring, exploratory studies, and time for our 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. | Notes: Confirmed? | | | |
| | 2:00-2:10pm | Break | | | | | |
| #20 | 2:10-3:10pm | Title: | Sample Collection & Sampling Plans - Best Practices (continued) | | | | |
| | | Presenter: | Erika Schwender | Phone: | | | |
| | Moderators: | Company/Organization: | Professional Training Association | Email: | | | |
| 1 | | Brief Description: | Continuation of #19. See description above. | Notes: | | | |
| 2 | | | | Confirmed? | | | |
| | 3:10-3:20pm | Break | | | | | |
| #21 | 3:20-4:20pm | Title: | Sample Collection & Sampling Plans - Best Practices (continued) | | | | |
| | | Presenter: | Erika Schwender | Phone: | | | |
| | Moderators: | Company/Organization: | Professional Training Association | Email: | | | |
| 1 | | Brief Description: | Continuation of #19. See description above. | Notes: | | | |
| 2 | | | | Confirmed? | | | |
| | 4:20-4:30pm | Closing Remarks/Daily Wrap Up | | | | | |
| | | | | | | | |

| June 14-16h 2022 Wastewater Operations: Basics & Beyond, Safety, Asset Management/ Technology/ Activated Sludge TUESDAY - June 14 TUESDAY - June 14 TUESDAY - June 14 TUE: ASA Cetting Started 7.45-8:00an Opening Announcements Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant Advancements Title: Asset Vent Opens: CAA, Getting Started Company/Organization: Ruse Reasoner, St. HPlandy Westmoreland Presentor: Company/Organization: Presentor: Adden Meade Presentor: Presentor: Adden Meade Confirmed? Presentor: Presentor: Adden Meade Presentor: Presentor: Presentor: Adden Meade Presentor: Adden Meade Presentor: Present | wenspump.com> wenspump.com> wenspump.com> wenspump.com> |
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| TUESDAY June 14 T.30.7.45am Event Opens: Q&A, Getting Started 7.45.8:00am Opening Announcements Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant (Bhared between all 3) #1 8:00.9:00am Title: Resenter: Prosenter: Email: Email: 1 Brief Description: Ruis Reasoner, Sr. IHRandy Westmoretand Phone: Email: Email: 2 Brief Description: Ruis Reasoner, Currenty Senior Industrial Hygienist for Oregon OSHA with 30 + years workt Notes: Confirmed7 2 9:00.9:10am Break Orefore Treating Senior Industrial Hygienist for Oregon OSHA with 30 + years workt Notes: Confirmed7 2 9:00.9:10am Break Orefore Treating Senior Industrial Hygienist for Oregon OSHA with 30 + years workt Notes: Confirmed7 42 9:00.9:10am Break Moderators: Company/Organization: Xylem 1 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 lissues and be gate sents to be calculated when paired with proper pump selection and station design & control. Notes: 2 10:10-10:20m Title: Reduce Operating Costs with Energy Eff | itracks) |
| 1 Jr.3vr./43am Event Openity Announcements Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant (Blangt between all 3: #1 8:00-9:00am Title: Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant (Blangt between all 3: Moderators: Company/Organization: Russ Reasoner, Sr. BitRandy Westmontead Phone: Email: Moderators: Company/Organization: Xylem 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 automate and how a VFD will utimately help save on energy usage and outons when paired with proper pump selection and station design & control. Notes: Wester | itracka) Image: Comparison of the sector o |
| #1 8:00-9:00am Title: Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant (Shared between all 3) Moderators: Company/Organization: Russ Reasone: St. IH/Randy Westmoreland Email: | itracks) |
| Interview Prosentarie Provement Provement Provement 1 Brief Description: Rus Reasoner, Currenty Senior Industrial Hygienist for Oregon OSHA with 30 + years worker Notes: Confirmed? 2 9:00-9:10am Break Confirmed? Confirmed? 9:00-9:10am Break Adden Meade Email: Meade #2 9:10-10:10am Title : Adaptive Mixing Variable Speed Wastewater Pumping Email: Meade, Alden - Xylem 1 Presenter: Alden Meade Email: Meade, Alden - Xylem 1 Brief Description: This presentation covers the difficulties of wastewater pumping and the problems are when using VFD speed control. We will discuss how these tasses can be addressed and how a VFD will utimately helps ave on energy usage and calcuts when paired with proper pump selection and station design & control. Notes: 2 Interventer: Kelson Redding Phone: Email: Kelson Redding 4 10:10-10:20am Break Energy 350 Email: Kelson Redding Alden Neae 4 10:20-11:20am Title: Reduce Operating Costs with Energy Efficient Improvements Email: Kelso | wenspump.com> |
| 1 Brief Description: Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working Notes: 2 Confirmed? #2 9:10-9:10am Title: Adaptive Mixing Variable Speed Wastewater Pumping Image: Confirmed? #2 9:10-10:10am Title: Adaptive Mixing Variable Speed Wastewater Pumping Image: Confirmed? Moderators: Company/Organization: Xylem Email: Meade, Alden - Xylem 1 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 when paired with proper pump selection and station design & control. Notes: 2 Email: Reduce Operating Costs with Energy Efficient Improvements Moderators: 40:10-10:20am Title: Reduce Operating Costs with Energy Efficient Improvements Email: #3 10:20-11:20am Title: Reduce Operating Costs with Energy Efficient Improvements Email: #4 11:30-11:30am Title: Reduce Operating Costs with Energy Efficient Improvements Moderators: 1 Hunter BD Brief Description: This presentation will highligh | wenspump.com> wenspump.com> |
| 9:00-9:10am Break Variable Speed Wastewater Pumping #2 9:10-10:10am Title: Adaptive Mixing Variable Speed Wastewater Pumping Moderators: Company/Organization: Xylem Email: Meade, Alden - Xylem 1 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 when paired with proper pump selection and station design & control. Notes: 2 In:10-10:20am Break Confirmed? yes, MZ #3 10:20-11:20am Reduce Operating Costs with Energy Efficient Improvements Phone: Email: Kelson Redding #4 11:20-113 Cam Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 2 Image: Company/Organization: Energy 350 Email: Kelson Redding 44 11:30-12:30pm Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 44 11:30-12:30pm Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 44 | wenspump.com> |
| The sector result Vertable speed vastewater Pumping Vertable speed vastewater Pumping Image: Presenter: Alden Meade Email: Meade, Alden - Xylem Image: Presenter: Alden Meade Email: Meade, Alden - Xylem Image: Presenter: 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 when paired with proper pump selection and station design & control. Notes: Image: Presenter: Reduce Operating Costs with Energy Efficient Improvements Notes: Image: Presenter: Kelson Redding Phone: Image: Presenter: Kelson Redding Presenter Image: Presenter: Kelson Redding Presenter Image: Presenter: Kelson Redding Presenter | wenspump.com> Image: Com |
| Moderators: Company/Organization: Xylem Email: Meade, Alden - Xylem 1 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 when paired with proper pump selection and station design & control. Notes: 2 Comfirmed? yes, MZ 43 10:0-10:20am Brief Description: Reduce Operating Costs with Energy Efficient Improvements Notes: 43 10:20-11:20an Title: Reduce Operating Costs with Energy Efficient Improvements Phone: Moderators: Company/Organization: Energy 350 Email: Kelson Redding 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater treatment plants and present low-cost ideas to help reduce operating costs. Notes: 2 Email: Presenter: Rich Owens Phone: 41:20-113:20am Break Presenter: Rich Owens Phone: 2 Presenter: Rich Owens Phone: Phone: 44 11:30-12 | <pre>v*Alden.Meade@xylem.com> dding@energy350.com> dding@energy350.com> wenspump.com> </pre> |
| Image: Description: This presentation Coders are dimand 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 callous when paired with proper pump selection and station design & control. Notes: 2 Confirmed? yes, MZ 43 10:20-11:20an Presenter: Kelson Redding Phone: Presenter: Kelson Redding Phone: Email: Kelson Redding' <krew td="" wastewater<=""> 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 2 The presenter: Reduce Operation of Wastewater Confirmed? yes, MZ 41 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 2 Confirmed? yes, MZ Phone: Phone: 44 11:30-112:30pm Break Presenter: Rich Owens Phone: 454 11:30-112:30pm Break Presenter: Rich Owens' <rich @point="" td="" wastewater<=""> 464 11:30-112:30pm Break Phone: Phone: Phone: Phone: 11</rich></krew> | dding@energy350.com> dding@energy350.com> wenspump.com> |
| Inite an able with a ball as with Darke VF D Speed collable. We with discuss how tiese lissues can be addressed and how a VFD will ultimately help save on energy usage and callous when paired with proper pump selection and station design & control. Notes: 2 Confirmed? yes, MZ 43 10:10-10:20am Break Presenter: Kelson Redding Phone: Presenter: Kelson Redding Phone: Final Second Secon | dding@energy350.com> |
| addressed and now 3 Vr-D will ultimately help save on energy usage and callous when paired with proper pump selection and station design & control. Notes: 2 Confirmed? yes, MZ 43 10:20-11:20an Title: Reduce Operating Costs with Energy Efficient Improvements Phone: #3 10:20-11:20an File Reduce Operating Costs with Energy Efficient Improvements Phone: Moderators: Company/Organization: Energy 350 Email: Kelson Redding' 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 2 Confirmed? yes, MZ Presenter: Red Overse Company/Organization: Notes: 2 Confirmed? yes, MZ Phone: Notes: Phone: #4 11:30-112:30pm Break Presenter: Rich Owens Phone: Phone: Moderators: Company/Organization: Owens Pump Choices for Wastewater Email: Rich Owens' <rich@ovens'<rich@ovens'< td=""> 11:20-112:30pm Title: Positive Displacement Pump Choices for Wastewater Email: Rich Owens'<rich@ovens'<rich@ovens'< td=""> 11:20-112:30pm Brief Descrip</rich@ovens'<rich@ovens'<></rich@ovens'<rich@ovens'<> | idding@energy350.com> wenspump.com> |
| 2 Interpretation and station design & control. Notes: 43 10:20-01:20am Break Phone: 43 10:20-01:20am Presenter: Kelson Redding Presenter: Kelson Redding Phone: Moderators: Company/Organization: Energy 350 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 2 Confirmed? yes, MZ 11:20-11:30am Break Confirmed? 44 11:30-12:30pm Title: Positive Displacement Pump Choices for Wastewater 2 Presenter: Rich Owens Phone: 44 11:30-112:30pm Presenter: Rich Owens Presenter: Rich Owens Phone: Presenter: Rich Owens Phone: < | idding@energy350.com> wenspump.com> |
| 10:10-10:20am Break Moderators: Presenter: #3 10:20-11:20am Title: Reduce Operating Costs with Energy Efficient Improvements Phone: Moderators: Company/Organization: Energy 350 Emergy 350 Email: Kelson Redding' 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater Notes: 2 | idding@energy350.com> |
| Note Presenter: Relace Operating Costs with Elbergy Elboards imployed entries Phone: Moderators: Company/Organization: Energy 350 Emergy 350 Emergy 350 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater treatment plants and present low-cost ideas to help reduce operating costs. Notes: 2 Confirmed? yes, MZ 44 11:30-12:30pn Break Phone: Presenter: Rich Owens Phone: Presenter: Rich Owens Phone: Moderators: Company/Organization: Owens Pump Moderators: Company/Organization: Owens Pump Image: State of the presenter: Rich Owens Phone: Rich Owens Piner, how do each of them work? Learn the differents between progressing cavity, rady tybe, double disc, and peristalitic hoses pumps in different applications throughout the wastewater treatment process. Notes: 2 Question Confirmed? yes, MZ | idding@energy350.com> |
| Moderators: Company/Organization: Energy 350 Email: Kelson Redding' <krei< th=""> 1 Hunter BD Brief Description: This presentation will highlight the biggest energy users common in wastewater treatment plants and present low-cost ideas to help reduce operating costs. Notes: 2 Confirmed? yes, MZ 11:20-11:30am Break Confirmed? yes, MZ #4 11:30-12:30pm Title: Positive Displacement Pump Choices for Wastewater Phone: Presenter: Rich Owens Phone: Email: Rich Owens Moderators: Company/Organization: Owens Pump Email: Rich Owens Email: 1 Brief Description: There are many different positive displacement sludge pumping solutions out progressing cavity, raday block, double disc, and peristatic hose pumps in different applications throughout the wastewater treatment process. Notes: 2 Image: Confirmed? yes, MZ Yes, MZ</krei<> | veding@energy350.com> |
| Image Wastewater treatment plants and present low-cost ideas to help reduce operating costs. Notes: 2 Confirmed? yes, MZ 11:20-11:30am Break Presenter: Presenter: 11:30-12:30pm Presenter: Rich Owens Phone: Moderators: Company/Organization: Owens Pump Email: Rich Owens' «rich@or 1 Brief Description: Three are many different positive displacement sludge pumping solutions out progressing cavity, raday tobe, double disc, and peristatic hose pumps in different applications throughout the wastewater treatment process. Notes: 2 A A Confirmed? yes, MZ | wenspump.com> |
| 2 Confirmed? yes, MZ 11:20-11:30em Break File #4 11:30-12:30pm Title: Positive Displacement Pump Choices for Wastewater Moderators: Company/Organization: Owens Pump Moderators: Company/Organization: Owens Pump Image: Straight of Description: Three are many different positive displacement sludge pumping solutions out there, how do each of them work? Learn the differences between progressing cavity, rately tobe, double disc, and peristatic hose pumps in different applications throughout the wastewater treatment process. Notes: 2 Confirmed? yes, MZ | wenspump.com> |
| In 20-11:30-In 30-In Break Positive Displacement Pump Choices for Wastewater #4 11:30-12:30-In Title: Presenter: Rich Owens Moderators: Company/Organization: Owens Pump Email: Rich Owens of them work? Email: Notes: Image: State of them work? Image: State of them work? Notes: Image: State of them work? Notes: Image: State of them work? Notes: | wenspump.com> |
| Presenter: Rich Owens Phone: Moderators: Company/Organization: Owens Pump Email: Rich Owens' 1 Brief Description: There are many different positive displacement sludge pumping solutions out there, how do each of them work? Learn the differences between progressing cavity, rolary tobe, double disc, and peristalitic hose pumps in different applications throughout the wastewater treatment process. Notes: 2 Lunch Confirmed? yes, MZ | wenspump.com> |
| 1 Brief Description: There are many different positive displacement sludge pumping solutions out there, how do each of them work? Learn the differences between progressing cavity, rotary tobe, double disc, and peristaltic hose pumps in different applications throughout the wastewater treatment process. Notes: 2 Image: Confirmed? Confirmed? yes, MZ | wenspump.com |
| Image: the stress of | |
| different applications throughout the wastewater treatment process. Notes: 2 Image: Confirmed? Ves. MZ 12:30-1:00pm Lunch Image: Confirmed? Ves. MZ | |
| Image: Notes Notes 2 Confirmed? yes, MZ 12:30-1:00pm Lunch Confirmed? | |
| 12:30-1:00pm Lunch | |
| 1:00-2:00nm Title: Densushle Natural Cas Production doublement within Materialities | |
| #5 Index. | |
| Presenter: Mark Van Eeckhout Phone: | |
| Moderators: Company/Organization: Metropolitan Wastewater Management Commission /City of Springfield Email: <a href="https://www.www.www.www.www.www.www.www.www.w</td> <td>rk ingfield-or.gov></td> | rk ingfield-or.gov> |
| 1 Hunter BD Mark Van Eeckhout is Mark van Eeckhout is | a Civil Engineer with the ater Management Commission |
| (MVMC) and the City Service Division Ha | r of Springfield Environmental e serves as a project manager |
| for the MWMC, over | eeing capital projects including enewable Natural Gas facilities |
| The Metropolitan Wastewater Management Commission (MMM-C) | City of Springfield since 2013, ked for Los Alamos National |
| Eugene/Springfield Water Pollution Control Facility (WPCF) in Eugene, OR is a 34 M/Ch nlant that negretage J00 000 to 500 000 urbit fact are day of | ental engineer. Mr. Van |
| a ding din han generication digesters. The MWMC undertook a capital project (2002) degrees in CMU | il/Water Resource Engineering |
| Over the pass several several several several several data and the several sev | stration from Anderson School |
| Natural (IVVV) Gas trainsinsisting system: The policy was commissioned in December 2021, and was the first RNG facility at a Publicly Owned | uo). |
| Treatment works to Come unite if the state of Oregoli . This presentation will a doubt to be added to | Eeckhout enjoys spending |
| Brief Description: lessons learned. Notes: local Oregon rivers. | |
| 2 | |
| 2:00-2:10pm Break Confirmed? yes, MZ | |
| #6 2:10-3:10pm Title: Wastewater MBR Basics Proceedings | |
| Moderators: Company/Organization: Clackamas Water Environment Services Email: | |
| 1 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 keep | |
| in mind. It will also include my own challenges and benefits of operating a Brief Description: wastewater MBR plant and lessons learned Notes: | |
| | |
| Confirmed? yes, MZ | |
| 2 Confirmed? yes, MZ 3:10-3:20pm Break 3:20-4:20pm Title: | |
| Zime Confirmed? yes. MZ 3:10-3:20pm Break 3:20-4:20pm Title: The Fundamentals of Electrochemistry | |
| Z Confirmed? yes, MZ 3:10-3:20pm Break 3:10-3:20pm Title: The Fundamentals of Electrochemistry #7 Presenter: Mark McElroy Moduratory: Company/Companying: There Schooling | |
| Z Confirmed? yes, MZ 3:10-3:20pm Break 3:20-4:20pm Title: The Fundamentals of Electrochemistry #7 The Fundamentals of Electrochemistry #6 Presenter: Mark McElroy Moderators: Company/Organization: Thermo Fisher Scientific 1 The Thermo Scientific pH Seminar focuses on the essentials of practical pH | |
| Z Confirmed? yes, MZ 3:10-3:20pm Break 3:20-4:20pm Title: The Fundamentals of Electrochemistry #7 Presenter: Mark McElroy Moderators: Company/Organization: Thermo Fisher Scientific 1 Company/Organization: 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. | |
| Z Confirmed? yes, MZ 3:10-3:20pm Break 3:20-4:20pm Title: The Fundamentals of Electrochemistry #7 Presenter: Mark McElroy Moderators: Company/Organization: Thermo Fisher Scientific 1 Moderators: Company/Organization: 1 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. | |
| Z Confirmed? yes, MZ 3:10-3:20pm Break 3:20-4:20pm Title: The Fundamentals of Electrochemistry #7 Presenter: Mark McElroy Phone: Moderators: Company/Organization: Thermo Fisher Scientific Email: 1 Moderators: Company/Organization: Thermo Fisher Scientific Email: 1 Each component of the pH system will be discussed with only a minimum of time spent on theory. Each component of the pH system will be discussed with only a minimum of time spent on theory. | |
| Z Confirmed? yes, MZ 3:10-3:20pm Break 3:20-4:20pm Title: The Fundamentals of Electrochemistry #7 Presenter: Mark McElroy Moderators: Company/Organization: Thermo Fisher Scientific Moderators: Company/Organization: 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 | |
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| 2 Confirmed? yes, MZ 3:10-3:20pm Break State State 3:20-4:20pm Title: The Fundamentals of Electrochemistry Phone: #7 Presenter: Mark McElroy Phone: Email: Moderators: Company/Organization: Thermo Scientific Email: Image: State St | |
| 2 Confirmed? yes, MZ 3:10-3:20pm Break Image: Confirmed? yes, MZ 3:20-4:20pm Title: The Fundamentals of Electrochemistry Image: Confirmed? yes, MZ #7 Presenter: Mark McElroy Phone: Email: Moderators: Company/Organization: Thermo Scientific Email: Image: Company/Organization: The Thermo Scientific PI Semiar 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 Modersborg Confirmed? yes, MZ 4:20-4:30pm Closing Remarks/Daily Wrap Up Confirmed? yes, MZ WEDNESD, 06/15/2022 Image: Confirmed? yes, MZ Image: Confirmed? 7:30-7:45am Event Opens: Q8A, Getting Started Image: Confirmed? Image: Confirmed? | |
| 2 Confirmed? yes, MZ 3:10-3:20pm Break Image: State of the picture of the picture of the picture of the picture and Troubleshooting. Phone: Image: State of the picture of the pictur | |
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| 2 Confirmed? yes, MZ 3:10-3:20pm Break Image: State of the picture of the picture of the picture and Troubleshooting. Phone: Image: State of the picture and Troubleshooting. #7 Presenter: Mark McElroy Phone: Email: Moderators: Company/Organization: Thermo Scientific Email: Email: 1 Moderators: Company/Organization: Thermo Scientific of Semiar 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: 2 Electrodes Calibration, Care and Maintenance, Temperature and Troubleshooting. Notes: 2 Electrodes Calibration, Care and Maintenance, Temperature and Troubleshooting. Presenter: 1 Brief Description: Notes: Electrodes Calibration, Care and Maintenance, Temperature and Troubleshooting. 1 Trade-1520 France Scientific Updates on the War Against Flushable Wipes Stared between all 31 1 Presenter: Frank Dick Phone: Stared between all 31 1 Brief Description: Frank Dick Phone: | |
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| 2 Second model Persenter: The Fundamentals of Electrochemistry Phone: Persenter: #7 Moderators: Company/Organization: The Fundamentals of Electrochemistry Phone: Email: 1 Moderators: Company/Organization: Thermo Fisher Scientific Email: Email: 1 Image: Scientific PH Seminar focuses on the essentials of practical PH measurement: Phone: Email: 1 Image: Scientific PH Seminar focuses on the essentials of practical PH measurement: Phone: Email: 1 Image: Scientific PH Seminar focuses on the essentials of practical PH measurement: Phone: Email: 2 Image: Scientific PH Seminar focuses on the essentials of practical PH measurement: Each component of the pH system will be discussed with only a minimum of time sperie on theory. Electrodes, Calibration, Care and Maintenance, Temperature and Troubleshooting. 2 Image: Scientific PH Seminar focuses on the war Against Flushable Wipes Phone: Image: Scientific PH Seminar focuses 7:30:7:45am Event Opens: Q&A, Getting Started Image: Scientific PH Seminar flushable Wipes Image: Scientific Ph Sc | Image: state stat |
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| 2 Confirmed? yes, MZ 320-4:20pm Title: The Fundamentals of Electrochemistry Presenter: #7 Presenter: Mark McEiroy Phone: Moderators: Company/Organization: Thermo Fisher Scientific Email: 1 Moderators: Company/Organization: Thermo Fisher Scientific Email: 1 Presenter: Mark McEiroy Phone: Email: 1 Presenter: Thermo Fisher Scientific PI Seminar focuses on the essentials of practical PH measurement, pb is one of the most common and notime types of laboratory analysis for wastewatery. 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. 2 Electrodes. Calibration, Care and Maintenance, Temperature and Troubleshooting. Notes: 2 Confirmed? Yes, MZ 3 Costing Remarks/Daily Wrep Up Confirmed? WEDNESD O6/15/2022 Prosenter: Prone: 7.30-7.45am Event Opens: QAA, Getting Started Prone: Email: 7 Brief Description: Frank Dick Phone: Email: 8 Brief Description: <td>Image: set in the set in</td> | Image: set in the set in |
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| 2 Size 2000 Break Confirmed? yes, MZ 32:0-4:2000 Title: The Fundamentals of Electrochemistry Phone: Electrochemistry 77 Presenter: Mark McEiroy Phone: Email: Email: 1 Moderators: Company/Organization: Thermo Fisher Scientific Phone: Email: Em | i i i i i i i i i i i i i i i i i i i i i i i i i i i i i <td< td=""></td<> |
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| 2 Confirmed? yes. KZ 3204.20pm Frank Confirmed? yes. KZ 3204.20pm Their The Fundamentals of Electrochemistry Phone: Electrochemistry 7 Presenter: Mark McCiny Phone: Electrochemistry 7 Moderators: Company/Organization: Them Themo Scientific H5 Scientific Electrochemistry 1 Moderators: Company/Organization: The Themo Scientific H5 Scient H5 Scientific H5 | Image: state stat |
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| 2 | 10.00.4.00 | | | Confirmed? | Yes, MZ | | |
|-------------|---------------|--|---|----------------------|--|---|------------------|
| #12 | 1:00-2:00pm | Lunch Title: | Overview of Lab Documentation | | | | |
| | | Presenter: | Lori Zboralski | Phone: | | | |
| - | Moderators: | Company/Organization: | Professional Training Association | Email: | | | |
| ' | | | more and more important. At times it feels like we can't do ANYTHING | | | | |
| | | | anymore without having to record or log it somewhere. On top of that, sometimes it 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 pecessary and how you can use this information to make | | | | |
| | | | your life easier down the road. Sooner or later your operation will be | | | | |
| | | | 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. | | | | |
| | | | | | | | |
| | | | 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 | | | | |
| | | Brief Description: | chemical, reagent, maintenance, etc.), quality Control (QC) logs and charts, | Natas | | | |
| 2 | | Brief Description: | and standard operating procedures (SOPs). | Notes: Confirmed? | | | |
| | 2:00-2:10pm | Break | | | | | |
| #13 | 2:10-3:10pm | Title: | Overview of Lab Documentation (continued) | | | | |
| | | Presenter: | Lori Zboralski | Phone: | | | 503.867.471 7 |
| | Moderators: | | | | | | alden. |
| | | Company/Organization: | Professional Training Association | Email: | | | minc.com |
| 1 | | Brief Description: | Continuation of #12. See description above. | Notes: | | | |
| 2 | 3:10-3:20pm | Break | | Confirmed? | | | |
| #14 | 3:20-4:20pm | Title: | Overview of Lab Documentation (continued) | | | | |
| | | Presenter: | Lori Zboralski | Phone: | | | |
| 1 | moderators: | Brief Description: | Continuation of #12. See description above. | Notes: | | | |
| 2 | Hunter BD | • | | Confirmed? | | | |
| | 4:20-4:30pm | Closing Remarks/Daily Wrap Up | | | | | |
| THURSDAY | June 16 | | | | | | |
| | 7:30-7:45am | Event Opens: Q&A, Getting Started | | | | | |
| #15 | 8:00-9:00am | Title: | Introduction to Your DEQ Online | | (Shared between all 3 tracks) | | |
| | | Presenter: | Jessica Lorenz, Your DEQ Online Trainer and Margaret Gardener, Your DEQ | Phone | | | |
| | Moderators: | Brief Description: | Over the next two years, Your DEQ Online will bring most of DEQ's | | | 1 | |
| | | | 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 | | | | |
| L | | | | Email: | | | |
| 1 | | | | Notes: Confirmed? | MZ | | |
| | 9:00-9:10am | Break | | | | | |
| #16 | 9:10-10:10am | Title: | A.D. (Air Driven) Floating Aerators/Mixers | Phone: | | | |
| <u> </u> | Moderators: | Company/Organization: | TITUS® Industrial Group Inc. | Email: | | | |
| 1 | | Brief Description: | Efficient lagoon aeration and mixing has been a challenge for decades. | | | 1 | |
| | | | 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 sludge control, odor issues, limited enuinment | | | | |
| | | | adaptability/versatility, high maintenance costs, cold weather issues, safety, | | | | |
| | | | A.D. (Air Driven) Floating Aerators/Mixers offer many advantages over | | | | |
| | | | mechanical floating aerators and bottom diffusers for lagoons, large basins, large tanks, and even large pump stations. | Notes: | | | |
| 2 | | | | Confirmed? | MZ | | |
| #17 | 10:10-10:20am | Break Title: | Wastewater Operator Certification Basics | | | | |
| | | Presenter: | Kimi Grzyb | Phone: | | | |
| | Moderators: | Company/Organization: | Oregon DEQ | Email: | GRZYB Kimi * DEQ' <kimi.grzyb@deq.oregon. gov></kimi.grzyb@deq.oregon. | | |
| 1 | Hunter BD | Brief Description: | * | | ~ | | |
| | | | "DEQ Wastewater Operator Certification Program Information: webpage | | | | |
| | | | navigation, the certification process and requirements, applying, renewals/CEUs, and Q&A". | | | | |
| | | | | Notes: | Vac MZ | | |
| | 11:20-11:30am | Break | | Commedi | 165, WZ | | |
| #18 | 11:30-12:30pm | Title: | Operational Risk Assessment | Discussion | | | |
| | Moderators: | Company/Organization: | WATERDUDE Solutions | Email: | | | |
| 1 | Hunter BD | Brief Description: | Developing an approach to operational risk assessment is critical to | | | | |
| | | | developing a risk matrix for evaluating wastewater systems. Attendees will be | | | | |
| | | | criticality. Then they will learn how to assign likelihood of operational failure | | | | |
| | | | 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. | | | | |
| | | | ······ | Notes: | No. 1910 | | |
| 2 | 12:30-1:00pm | Lunch | | Contirmed? | Tes, MZ | | |
| #19 | 1:00-2:00pm | Title: | Operational Task Planning | | | | |
| <u> </u> | Moderatora | Presenter: | Mark Walter | Phone: | | | |
| 1 | | | Task planning is a critical element of maintaining wastewater treatment plant | | | 1 | |
| | | | 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 | | | | |
| | | Print Dear dotter | operational tasks. | Net | | | |
| , · · · · · | | Brief Description: Brief Description: | | Notes: Confirmed? | Yes, MZ | | |
| | 2:00-2:10pm | Break | | | | | |
| | 2:10-3:10pm | Title: | "Plan the Work, Work the Plan" Start up of the Tri-City Solids Handling | | | | |
| #20 | | | Improvement Project | | | | |
| | | Presenter: | Jeff Stallard | Phone: | | | |
| 1 | Moderators: | Company/Organization: | Clackamas Water environment Services In 2015, Clackamas Water Environment Services (WES) kicked off a project | Email: | | - | |
| ' | | | to completely overhaul and expand the solids facilities at the Tri-City Water Resources Recovery Facility (TCWRRE). The project constructed a powr 1.2 | | | | |
| | | | million gallon digester, dewatering facilities and a combined heat and power system. Two existing digesters are also being upgraded. During the power | | | | |
| | | | development, WES operations staff was integral in developing the | | | | |
| | | | accommodate the constraints identified, the start-up of the project was | | | | |
| | | | separated into two phases. Phase 1 of start-up, was completed in December of 2020, included the new digester, centrifuges, polymer systems, boilers. | | | | |
| | | | and dewatering feed tank. Phase 2 of the project, was completed in August of 2021, will include making the upgrades to the two existing digesters | | | | |
| | | | addition of a digester feed tank and replacement of the co-generation system. Because digestion facilities must remain online and reliable during | | | | |
| | | | construction, significant coordination effort between engineering, operations and construction team mombre has been engineering. | | | | |
| | | | This presentation will provide an overview of the project and the challenges | | | | |
| | | | approach to planning and coordination between the operations staff, | | | | |
| | | | contractor, and engineer during design, construction, and execution of the start-up. | | | | |
| | | Brief Description: | Jeff Stallard, Supervising Engineer, Clackamas WES, Jeff is a project | Notes: | | | |
| | | | manager with 21 years of experience spread across the public and private | Confirmed? | MZ | | |
| | 3:10-3:20pm | Break | | | | | |
| #21 | 3:20-4:20pm | Title: Presenter: | Developing a Predictive Wastewater Maintenance Program John Nice | Phone: | | | |
| | Moderators: | Company/Organization: | Clean Water Services | Email: | | | |
| 1 | | | Predictive Maintenance is a concept which can be applied to optimize asset maintenance plans through early detection of potential failures. The | | | | |
| | | | application of predictive maintenance techniques can be beneficial in reducing equipment down time, saving money on repairs and bringing focus | | | | |
| | | | to capital planning efforts. This presentation is a guide to help identify how to select assets for a predictive maintenance program and identify techniquee | | | | |
| | | | that can be applied for those assets. Implementing this type of program helps to make informed repair vs replace decisions and predict the timing of | | | | |
| | | | equipment replacements. The goal of creating an effective predictive maintenance program is to miliate risk on the methodical eviction | | | | |
| | | Brief Description | avoid costly failures while making your maintenance efforts less reactive and | Notori | | | |
| 1 | | Driet Description: | Inore planned. | INOTES: | 1 | | |

| 2 | | c | Confirmed? | MZ | | |
|-------------|-------------------------------|---|------------|----|--|--|
| 4:20-4:30pm | Closing Remarks/Daily Wrap Up | | | | | |
| | | | | | | |

| | | | Contacts: Safety: Ross Johnston, Lisa McBride, Resource Recovery: Matt LaForce, Gabriella Medina, Stormwater: John Nagy, Akiko Gates | | |
|--|--|--|--|---|--|
| Water Environm June 14-16th 202 | ent School | | | | |
| Source Control | Pollution Preven | tion: Industrial Pretreatm | ent, Stormwater, Reuse & Biosolids | | |
| 1020574 | 7:30-7:45am | Event Opens: Q&A, Getting | l Started | | |
| #1 | 8:00-9:00am | Title: Presenter: | Safety Concerns From the Influent to the Effluent of a Wastewater Treatment Plant Russ Reasoner, Sr. IH/Randy Westmoreland | Phone: | (Shared between all 3 tracks) 503-229-6193 (Office) |
| 1 | Moderators: | Company/Organization: Brief Description: | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years | Email: | Russ.A.REASONER@dcbs.oregon.gov |
| | | | 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 Oregon OSHA with 14 years in the OSHA programs. Graduate with a B.s. and M.S. in Oregon OSHA with the Nanoscenation from Scritteneter Orkhopmen State. | | |
| 2 | | | 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.) | Notes: Confirmed? | 541-887-7154 (Cell) OR-OSHA Consultative Services Portland Field Offic |
| #2 | 9:00-9:10am 9:10-10:10am | Break Title: | Assessing Water Quality Improvement at the Carli Creek Regional Water Quality Project in Clackamas | County. Oregon | russ.a.reasoner@dcbs.oregon.gov |
| | Moderators: | Presenter: Company/Organization: | Chris Desiderati Water Environment Services | Email: | CDesiderati@co.clackamas.or.us |
| 1 | Hunter BD | Brief Description: | Constructed wetlands are innovative, resilient, multi-benefit tools for managing urban stormwater. At the Carli Creek Regional Water | | Clackamas Water Environment Services Source Control Specialist and Portland State University |
| | | | welland compare to water quality criteria, how much the welland reduces pollutant loads, and how pollutant loading relates to environmental workshop work the second secon | Notos | Professional Environmental Science & Management Masters student |
| 2 | 10-10-10-20am | Broak | environmentar variables over une. | Confirmed? | Yes |
| #3 | 10:20-11:20am | Title: Presenter: | Steigerwald Lake National Wildlife Refuge Restoration Project | Phone: | |
| 1 | Moderators: Akiko | Company/Organization: Brief Description: | Estuary Partnership After two years of closure to complete the largest habitat restoration project in the lower | Email: | ccollins@estuarypartnership.org |
| | | | 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 floodhain 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 Willampthe Bure by 10%. It also received unperturbed access for admonstrate and lampsrue 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 overview of the project its benefits, and its efficiencess monitoring plan. | Notes: | |
| 2 | 11:20-11:30am | Break | | Confirmed? | Yes |
| ¥4 | 11:30-12:30pm | Title: | Types of health, safety and ergonomic hazards and the hazard controls that are common place in the water/wastewater treatment processes | | |
| | | Presenter: | Russ Reasoner, Sr. IH/Randy Westmoreland | Phone: | |
| 1 | Moderators: | Company/Organization: Brief Description: | OR-OSHA | Email: | Russ.A.REASONER@dcbs.oregon.gov |
| | | | Russ Reasoner, | | |
| | | | Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) | | |
| | | | Loursourant, and a 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. | | OR-OSHA Consultative Services |
| | | | Currently Industrial Hygienist for Oregon OSHA with 14 years | | Durham Plaza |
| | | | Health Management from Southeastern Oklahoma State University. | | 16760 SW Upper Boones Ferry Rd, Suite 200 |
| | | OR-OSHA | Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.) | Notes: | Tigard, Oregon 97224 Tenative (4/6/2022) |
| 2 #5 | 12:30-1:00pm 1:00-2:00pm | Lunch Title: | Options for Industrial Wastewater Treatment / Pretreatment | _onamed r | |
| | Moderators: | Presenter: Company/Organization: | Rich Owens Owens Pump | Phone: Email: | Rich Owens' <rich@owenspump.com></rich@owenspump.com> |
| 1 | Hunter BD | | 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. There will also be discussed as a second back to be advantages to be advantages. | | |
| | | Brief Description: | 1 mere will also be discussion on upcoming technologies that could replace the current technology | Notes: | ves. MZ |
| #6 | 2:00-2:10pm 2:10-3:10pm | Break Title: | Health, safety and eroonomics policins in Wastewater Treatment | _ommed f | y = = , //te |
| | Moderators: | Presenter: Company/Organization | Russ Reasoner/Randy Westmoreland OR-OSHA | Phone: Email: | Russ, A. REASONER@dcbs.oregon.gov |
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| | | | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with | | |
| | | | Russ Reasoner, Currently Senior Industrial Hygienisis for Oregon OSHA with 09 + years working for Oregon OSHA. 25 years as an industrial Hygienist (IH) Consultant, and 5 years statting out as an IH compliance officer. Condusta with a 8.5 in Molecular Elicitora at the Linewrite / of Qenom and rootinued with | | |
| | | | 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 statting out as an IH compliance officer. Craduate with a S. I. Moleculer Biology at the University of Oregon and continued with graduate studies in Industrial and Environmental Toxicology at Portland State University. | | OR-OSHA Consultative Services |
| | | | 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. Ciraduate 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, | | OR-OSHA Consultative Services Portland Field Office |
| | | | 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 stating out as an IH compliance officer. Craduate with a 5. In Molecular Bology at Itb University of Oregon and continued with generating of the oregon of the oregon of the oregon of the oregon whereasy. Randy Westmoreland CSP, CTI, Currently Industrial Hygienist for Oregon OSHA with 14 years Currently Industrial Hygienist for Oregon OSHA with 14 years Currently Industrial Hygienist for Oregon OSHA with 14 years Meetin Management from Southease Tubients Shafey and Health Management from Southease Tubients Shafey Industrial Meetin Management from Southease Tubients Shafey Shafey Mand | | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 10760 SW Longe Bonnes Ferry Rrt |
| | | | 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 IF compliance officer. Graduate with sophate studies in Industrial and Environmental Toxoclogy 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 | | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 20 |
| 2 | 3-10-3-20pm | 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 staffing out as an Hi compliance officer. Cindualte with organizate studies in Industrial 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 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 (deal 3 hrs.) | Notes: Confirmed? | OR-OSHA Consultative Services Portland Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 20 Tigard, Oregon 97224 Tenative (4/8/2022) |
| 2 | 3:10-3:20pm 3:20-4:20pm | Brief Description: Break Title: | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) as 8. In Huster Elexicity at the University of Oregons and continued with as 8. In Huster Elexicity 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 8.8. and M.S in Occupational Safety and Health Management from Southeastern Okahoma State University. Presentation time: 1 hr. for each discipline H, S, & E University Content Developed Environmental Toxicology | Notes: Confirmed? | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 20 Tigard, Oregon 97224 Tenetive (4/6/2022) |
| 2 | <mark>3:10-3:20pm</mark> 3:20-4:20pm | Brief Description: Break Title: Presenter: | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 - years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) 30 - years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) a B.S. In Molecular Biology at the University of Oregon and continued with graduate studies in Industrial and Environmental Toxocology 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 Okahoma State University. Presentation time: 1 hr. for each discipline H, S, & E Health Management from Southeaster Okahoma State University. Health Management from Southeaster Okahoma State University. Health Management from Southeaster Okahoma State University. Health Management from Southeaster Okahoma State University. | Notes: Confirmed? O: 801-467-997 M: 801-232-1300 | OR-OSHA Consultative Services Portland Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oregon 97224 Tenative (4/6/2022) |
| 2 #7 1 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Title: Presenter: Company/Organization: | 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. Craduate with a B.S. In Molecular Biology at the University Or Oregon and continued with graduate studies in Industrial 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 Okahoma State University. Pesentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.) Intercement Preview IS BY Means State Intercement Preview IS BY Means IS State Interceme | Notes: Confirmed? O: 801-467-997 M: 801-332-130 Email: | OR-OSHA Consultative Services Portland Field Office Durham Plaza 18700 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oregon 97224 Tenetive (4/6/2022) |
| 87 87 1 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Title: Presenter: Company/Organization: | 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 stating out as an IH compliance officer. Crisduate with a B S. In Molecular Bology at Ite University of Oregon and continued with University. Randy Westmoreland CSP, CTT, Currently Industrial Hygienist for Oregon OSHA with 14 years In the OSHA programs. Crisduate with a B S. and M.S in Occupational Safety and In the OSHA programs. Crisduate with a B S. and M.S in Occupational Safety and Health Management from Southeastern Oxiahoma Safe University. Presentation Time: 1 nr. for each discipline H, S, & E (total 3 hrs.) Health Management from Southeastern Oxiahoma Safe University James Oyler President, Gmittel Carporation James Oyler is President of Genfluef that is are currently located in Altamonte Springs, Florida. The company specificate in Hydrothemal Processing (IHT) that uses temperature and pressure to Elicently compare Incorporation | Notes: Confirmed? O: 801-467-997 M: 801-232-130 Email: | OR-OSHA Consultative Services Portand Field Office Durham Plaza 15760 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oregon 97224 Tranative (4/8/2022) |
| 2 87 1 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Title: Presenter: Company/Organization: | 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 affleter. Craduate with a B S. In Molecular Bology at Ite University of Oregon and continued with University. Randy Westmoreland CSP, CTT, Cornently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a B S. and M Sir O Coupational Safety and Health Management from Southeastern Oklahoma State University. Presentation time. 1 nr. for each discipline H, S. & E (tdal 3 hrs.) | Notes: Confirmed? O: 801-467-997 M: 801-232-130 Email: | OR-OSHA Consultative Services Portand Field Office Durham Plaza 15763 SW Uppe: Boones Ferry Rd, Suite 200 Tradive (4/8/2022) Tradive (4/8/2022) |
| 2 87 1 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Title: Presenter: Company/Organization: | 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. Craduate with a B.S. In Molecular Biology at Ite Durivestly of Oregon and continued with a B.S. In Molecular Biology at Ite Durivestly of Oregon and continued with a B.S. In Molecular ING Concept 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: 1nr. for each discipline H, S. & E (total 3 hrs.) Memory President Oregon OSHA with 14 years Intel OSHA programs. Graduate with a B.S. and M.S. in Occupational Safety and Health Management from Southeastern Oklahoma State University. Presentation time: 1nr. for each discipline H, S. & E (total 3 hrs.) Memory President of Osnigut Batts American American Batts Intel Comparison Control Comparison Control Intel State Intel Comparison Control Control Comparison Intel Comparison Control Comparison Intel Comparison Comparison Intel Co | Notes: Confirmed? O: 801-467-897 M: 801-232-1301 Email: | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 15760 SW Upper Bonnes Ferry Rd, Suite 200 Trgard, Oregon 97224 Transtive (4/6/2022) |
| 77 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Title: Presenter: Company/Organization: | 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 IF compliance officer. Graduate with graduate studies in Industrial and Environmental Toxocology 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 Toms Southeastern OKahoma. State University. Presentation time: 1 hr. for each discipline H, S. & E (total 3 hrs.) | Notes: Confirmed? O: 801-467-987 M: 801-232-1301 Email: | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 15760 SW Upper Boones Ferry Rd, Suite 200 Tradie (46/2022) Tradie (46/2022) |
| 7 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Tito: Presenter: Company/Organization: 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 IF compliance officer. Craduate with groute studies in Industrial 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 8.5. and M.S. in Occupational Safety and Health Management form Southeastment Okahoma State University. Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.) | Notes: Confirmed? O: 801-467-987 M: 801-232-1301 Email: Notes: | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oregon 97224 Tenative (46/2022) |
| 2 7 1 | 3:10-3:20pm 3:20-4:20pm Moderators: | Brief Description: Break Trite: Presenter: Company/Organization: Brief Description: Ctosing Remarks/Daily W | 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. Conduste with graduate studies in Industrial 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 8.5. and M.S. in Occupational Safety and Health Management form Southeastment Oklahoma State University. Presentation time: 1 hr. for each discipline H, S, & E (total 3 hrs.) | Notes: Confirmed? 0: 801-467-987 M: 801-232-1301 Email: Notes: Confirmed? | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oregon 97224 Tenative (46/2022) |
| 2 7 1 2 VEDNESDAY | 3:10-3:20pm 3:20-4:20pm Moderators: 4:20-4:30pm 06/15/2022 | Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W | 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 staffing out as an Hi compliance officer. Conduste with graduate studies in Industrial 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 8.5. and M.S in Occupational Safety and Health Management from Southeastime Oklahoma State University. Presentation time: 1 hr. for each discipline H, S, & E (total 3 hr.s.) Intercently Industrial and Environmental Toxicology at Portland State University. Presentation time: 1 hr. for each discipline H, S, & E (total 3 hr.s.) Intercently Overlage battements Settl James Oyler President of Complex Settle Information Complex Settle James Oyler President Oregon Settle Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to biocrude oil and methane gas in leas fina an hour. Mr. Oyler is the Founder and President of Complex Index Interveable Heids. Formetale wastes, especially wastewater solitis, by converting Ihem into renewable heids. Genetive Ihe angineeting phase for several wastewater willing in North America and Europe. K. Oyler hold more than hevel patients issued or paneloging as well as exclusive isonese to other patients for hydrothermal Processing Calify, and Leids. Company complexes other patients for hydrothermal Processing Leidity, and Leidite Ihad and the set of the Protein America and Europe. K. Oyler hold more than hevel patients issued or paneloging as well as exclusive isonese to other patients for hydrothermal Processing Calify, and Leidite Ihad other patients for hydrothermal Processing Leidity, and Leidity Leidite Had recently commission as a pilot Sectific to the America and Europe. K. Oyler hold more than hevely patients issued or panel | Notes: Confirmed? O: 801-467-997 M: 801-232-1300 Email: Notes: Confirmed? | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 15760 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oragon 97224 Tranaive (46/2022) 6 9 jim@genifuel.com |
| 2 17 1 1 WEDNESDAY | 3:10-3:20pm 3:20-4:20pm Moderators: 4:20-4:30pm 06/15/2022 7:30-7:45-300m | Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements | 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 staffing out as an Hi compliance officer. Cinduate with organize studies in Industrial and Environmential 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 Okahom State University. Presentation time: 1 hr. for each discipline H, S, & E (total 5 hrs.) Intercently Industrial and Environment of the Compliance State James Oyler President of Compliance State James Oyler President of Commer Industrial and Environment Industrial James Oyler President Corporation James Oyler is President of Centiluel that is are currently located in Atlamonte Springs. Folda. The compary specificazes in Hydrothermal Processing (HTP) that uses temperature and pressure to efficiently convert wet organic matter to Discude oil and methane gas in less OSG. Geniluel Provides Hydrothermal Processing (HTP) that uses temperature and pressure to afficiently convert wet organic matter to Discude oil and methane gas in less OSG. Geniluel provides Hydrothermal Processing (HTP) that uses temperature and pressure to afficiently convert wet organic matter to Discude oil and methane gas in less OSG. Geniluel provides Hydrothermal Processing (HTP) that uses temperature and pressure to afficiently convert wet organic matter to Discude and a landscale to corporate wastes, especially wastewater solitis, by converting them into remewable fuels. Geniluel has recently commissioned a pilot-cale the Hydrothermal Processing facility, and is currently in the argineering phase for several wastewater utilities in North America and Europe. W. Cycle holds more than twethy planetis lissuod or presidents of origin. Several wastewater bits everal matter company. | Notes: Confirmed? O: 801-467-997 M: 801-323-190 Email: Notes: Confirmed? | OR-OSHA Consultative Services Portland Field Office Durham Plaza 15760 SW Upper Boones Ferry Rd, Suite 200 Tigard, Oregon 97224 Tenative (4/8/2022) |
| 2 97 1 WEDNESDAY #8 | 3:10-3:20pm 3:20-4:20pm Moderators: 4:20-4:30pm 06/15/2022 7:30-7:45:00m 8:00-5:00m | Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements Title: Tresenter: ———————————————————————————————————— | 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 staffing out as an Hi compliance officer. Cindustie with orgenulate studies in Industrial and Environmential 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 Okahoma State University. Presentation time: 1 hr. for each discipline H, S, & E (data) 3 hrs.) Intercently Industrial Disconcer Disconc | Notes: Confirmed? O: 801-467-997 M: 801-232-130 Email: Confirmed? Confirmed? | OR-OSHA Consultative Services Portland Field Office Durham Plaza 16760 SW Upper Boones Ferry Rd, Suite 200 Tenative (4/8/2022) pm@genifuel.com jm@genifuel.com (Shared between all 3 tracks) |
| 2 97 1 1 WEDNESDAY 18 | 3:10-3:20pm 3:20-4:20pm Moderators: 4:20-4:30pm 06/15/2022 7:30-7:45-8:00am 8:00-8:00am Moderators: | Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Closing Remarks/Daily W Event Opens: Q&A. Getting Opening Announcements Title: Presenter: Company/Organization: | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Coll 5. Industrial Hygienist for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Coll 5. Industrial Hygienist for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Coll 5. Industrial Hygienist for Oregon OSHA, 25 years as an Industrial Hygienist (IH) Coll 5. Industrial Hygienist for Oregon OSHA with 14 years an the OSHA programs. Graduate with a B.S. and M.S in Occupational Safety and Health Management form Southeasterin Okahoma State University. Presentation time: 1 hr. for each discipline H, S, & E (Iddal 5 hrs.) Industrial Hygienist for Oregon OSHA with 14 years Industrial Hygienist for Oregon OSHA with 14 years 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 form Southeasterin Okahoma State University. Presentation time: 1 hr. for each discipline H, S, & E (Iddal 5 hrs.) Industrial Hygienist for Oregon OSHA with 14 years James Oyler President, Genilizet Dapostotin James Oyler is President of Caniluet that is are currently located in Altamonte Springs, Fordia. The company specificazes in Hydrothermal Processing Jackity and Leves were organic wastes, especially wastewater solitis, by converting them into renewable fuels. Geniluet has reently commission da pilot-date Hydrothermal Processing Jackity, and Leves. Covering in the organiser processing Satety and Leves. Covering the acutive to the Angelenessing for the Hydrothermal Processing Jackity and Leves Mydrothermal Processing Jackity and Leves. Covering the acutive to the Angelenessing for the Hydrothermal Processing Jackity and Leves. Covering the more than twethy Jackits is in Noth Anerica and Europe. K. Oyler holds more than twethy Jackits is source of prevision. Formed in 2005, Confile processing Jackity and Levester With Anerica and Europe. K. Oyler holds more than twethy Jackits is source of pre | Notes: Confirmed? C: 801-467-997 M: 801-232-130 Email: Confirmed? Phone: Email: Notes: | OR-OSHA Consultative Services Portland Field Office Durham Plaza 16760 SW Upper Bones Ferry Rd, Suite 200 Tenative (4/8/2022) im@genifuel.com im@genifuel.com im@genifuel.com im@genifuel.com im@genifuel.com imgenifuel.com imgenifue |
| 2 57 1 1 WEDNESDAY 18 1 2 | 3:10-3:20pm 3:20-4:20pm Moderators: 4:20-4:30pm 06/15/2022 7:30-7.65m 7:45-8:00am 8:00-9:00am Moderators: 9:00-9:10am | Brief Description: Break Title: Company/Organization: Company/Organization: Glosing Remarks/Daily W Event Opens: Q&A. Getting Opening Announcements Title: Company/Organization: Brief Description: Break | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an Industrial Hygienist (IH) as 8. Industrial Hygienist for Oregon OSHA, 25 years as an Industrial Hydienist (IH) as 8. Industrial Previously at the University of Oregon and continued with as 8. Industrial Hygienist for Oregon OSHA with 14 years and Westmoreland CSP, CTF, Currently Industrial Hygienist for Oregon OSHA with 14 years in the OSHA programs. Graduate with a 8.8. and M.S in Occupational Safety and Health Management from Southeastern Okahom State University. Presentation time: 1 hr. for each discipline H, S, & E (trial 3 Thrs.) Internet Processing Statement Okahom State University. James Oyler President, Genitari Corporation James Oyler is President of Genitale that is are currently located in Atlamonte Springs. Than Dour. Mr. Oyler is the Founder and Processing (HTP) that uses temperature to any oyler size the Southeaster University. Lanes Oyler is President of Genitale Throsostering (HTP) that uses temperature than an hour. Mr. Oyler is the Founder and President of Genitale Corporation. Lanes Oyler is Dresident of Genitale Throsostering (HTP) that uses temperature than an hour. Mr. Oyler is the Founder and President of Genitale Corporation. Lanes Oyler is Dresident of Genitale Throsostering (HTP) that uses temperature than an hour. Mr. Oyler is the Founder and President of Genitale Corporation. Formed in 2005. Genital provides Hydroheman Processing (Satil), and is currently in the angineering phase for several waterwater utilities in North America and Europe. Mr. Oyler Northeast the State Oregon (Satil A Mamonte Springs, Earlier, the held senior positions in energy consulting and corporate management leading to tweive years as CEO of a publicly-traded company. Fan Dok. Chydrohots more than weety patient issued or pending, as well as exclusive licenses to other patients for hydrohemal Processing (Satil), and Satily as Exclusive licenses Company. Fan Dok. Chydrohots more than wee | Notes: Confirmed? O: 801-467-997 M: 801-432-130 Email: Confirmed? Phone: Email: Confirmed? | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 16760 SW Upper Bonnes Ferry Rd, Suite 200 Transtive (4/9/2022) im@genifuel.com im@genifuel.com im@genifuel.com im@genifuel.com im@genifuel.com imgenifuel.com imgenif |
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| 2 17 1 1 1 1 1 1 2 19 1 1 2 19 1 1 2 11 1 2 11 1 2 11 1 2 11 1 2 11 1 1 1 1 1 1 1 1 1 1 1 1 | 3:10-3:20pm 3:20-4:20pm Moderators: 4:20-4:20pm Moderators: 9:4:20-4:30pm 06/15/2022 7:30:7.45am Moderators: 9:00-2:10am Moderators: 9:00-2:10am Moderators: 11:20-11:20am Moderators: 11:20-11:20am Moderators: 11:20-11:30am Moderators: 11:20-11:30am | Brief Description: Break Title: Presenter: Company/Organization: Brief Description: Glosing Remarks/Daily W Event Opens: Q&A. Getting Presenter: Company/Organization: Brief Description: Break Title: Presenter: Company/Organization: Break Title: Description: Description: Break Title: Break T | Russ Reasoner, Currently Senior Industrial Hygienist for Oregon OSHA with 30 + years working for Oregon OSHA, 25 years as an industrial Hygienist (IH) in B.S. In Mencular Elocogy at the University of Oregon and continued with graduate studies industrial and Environmential Toxocology at Portland State University. Randy Westmoreland CSP, CT, 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 Okationa State University. Presentation time: 1 hr. for each discipline H, S. & E (rtidal 3 hrs.) Heremenal/Incence to Neuroscience Iool American Component International Processing Systems which eliminate and pressure to Efficiently Component Vision (PTT) and usites Engrenate and pressure to Efficiently Component Processing Systems which eliminate the angemenal Neuroscience Iool American International Processing Systems which eliminate well organic waters. specially wastewater solids, by converting them into memorable fuels. Centering in the Organic matter to Discurde of an American and Europe and pressure to Efficiently Compare the Processing Systems which eliminate well organic waters. specially wastewater solids, by converting them into memorable fuels. Genitate Hage engineering phase for some and wastewater utilities in North-American, and exclusive Lomeses to other patients for hydrothermal processing. Earlie: he held sentor positions in energy company. 4. Oyder holds 4. Oyder holds 4. Disconsel Studened Studge Process David Stoogs 7. Proteinsel Public Works 4. State Studge process ling special for composed of 4. The activated Studge Process David Stoogs 7. Proteinsel Public Works 4. State Studge Process (continued) 4. State Studge process ling place of the student adding around a studied studge operations of 4. State Study Studge Process (continued) 4. State | Notes: Confirmed? Confirmed? Confirmed? Confirmed? Confirmed? Phone: Email: Notes: Confirmed? Phone: Email: Notes: Confirmed? Phone: Email: Confirmed? Phone: Email: Confirmed? Phone: Email: Notes: Confirmed? | OR-OSHA Consultative Services Portiand Field Office Durham Plaza 16760 SW Upper Bonnes Ferry Rd, Sulte 200 Transtive (449/2022) |
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| 1 | | | Building Support for a Clean Water Future | | | | |
|--|---|---|---|--|--|------------------------|--|
| | | | Background: | | | | |
| | | | 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. | | | | |
| | | | 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 | | | | |
| | | | 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 Epoagement Roadman 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 neonle WES serves | | | | |
| | | | Learn how your agency can adapt WES' model to chart | | | | |
| | | | a course for continuous improvement with your customers and stakeholders! | | | | |
| | | | How to establish meaningful research and engagement goals that drive results | | | | |
| | | | A review of the various research approaches and methodologies deployed in the WES Clean Water Exchange and how to leverage them | | | | |
| | | | | | | | |
| | | | 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 | Notes: | | | |
| 2 | | | Sneily Panni-Kunge is a passionate community builder, ner career strengtms include strategic 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 dialogue, social-networks, and leadership play, in creating and navigating sustainable | | | | |
| | | | change. Prior to working for Clackamas Water Environment Services in an External Affairs locatorebin | | | | |
| | | | role, Shelly led Clackamas Community College's Advancement and Government Affairs Department for more than a decade. | | | | |
| | | | Shelly holds a Bachelor of Arts in Theater and Communications from Arizona State University | | | | |
| | | | Initial a master or Arts in Organizational Communications from Marylhurst University. Shelly also serves on the Oregon ACWA Education Committee as Vice Chair and recently the WateReuse Pacific Northwest Board of Trustees. | | | | |
| | | | Submitted by: | | | | |
| | 2:00-2:40 | Break | orkeny rainti-kunge Clackamas Water Environment Services | Confirmed? | Yes/Waiting for a response | | |
| #13 | 2:10-3:10pm | Title: | Fernhill Wetlands for Tertiary Treatment of Wastewater | | | 503 867 474 | |
| <u> </u> | Moderators | Presenter: | Leila Barker CWS Fernhill Wetlands | Phone: | 503-681-5169 | 7 alden | |
| | moderators. | Company/Organization: | Clean Water Services | Email: | BarkerL@cleanwaterservices.org | meade@xyle minc.com | |
| 1 | | Brief Description: | Creating habitat with secondary effluent while meeting NPDES treatment requirements | Notes: Confirmed? | Yes/Waiting for a response | | |
| | 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 | | | | |
| | Moderators: | Presenter: Company/Organization: | Bhargavi Subramanian Kennedy Jenks | Phone: Email: | BhargaviSubramanian@kennedyjenks.com | | |
| 1 | | | Dr. Bhargavi (Gavi) Subramanian is a Staff Scientist in the Applied Research Group based out of the San Francisco Bay Area | | | | |
| | | | offices of KennedyJenks 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 | | | | |
| | | | utilities on optimization of digester operations. She has nearly 5 years of experience in research and technology development of wastewater treatment. Gavi | | | | |
| | | | Leave and here Die D. in Franker and a Franker and a strike of the side basis in the side of the set | | | | |
| | | Brief Description: | earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. | Notes: | | | |
| 2 | Hunter BD 4:20-4:30pm | Brief Description: Closing Remarks/Daily W | earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. | Notes: Confirmed? | Yes | | |
| 2 THURSDAY - | Hunter BD 4:20-4:30pm June 16 | Brief Description: Closing Remarks/Daily W | earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. | Notes: Confirmed? | Yes | | |
| 2 THURSDAY - | Hunter BD 4:20-4:30pm June 16 7:30-7:45am 7:45-8:00am | Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements | earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. | Notes: Confirmed? | Yes | | |
| 2 THURSDAY - #15 | Hunter BD 4:20-4:30pm June 16 7:30-7:45am 7:45-8:00am 8:00-9:00am | Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements Title: Presenter: | earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. rep Up Started Started Infroduction to Your DEQ Online Jaessica Lorenz, Your DEQ Online Change | Notes: Confirmed? | Yes Shared between all 3 tracks) | | |
| 2 THURSDAY - #15 | Hunter BD 4:20-4:30pm June 16 7:30-7:45am 7:45-8:00am 8:00-9:00am Moderators: | Brief Description: Closing Remarks/Daily W Event Opens: Q&A, Getting Opening Announcements Title: Presenter: Brief Description: | earned her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. rep Up Started Introduction to Your DEQ Online Jessica Lorenz, Your DEQ Online Margaret Gardener, Your DEQ Online Change Manager Manager | Notes: Confirmed? Phone: | Yes (Shared between all 3 tracks) | | |
| 2 THURSDAY - #15 | Hunter BD 4:20-4:30pm June 16 7:30-7:45am 7:45-8:00am 8:00-9:00am Moderators: | Brief Description: Closing Remarks/Daily W Event Opens: Q&A. Getting Opening Announcements Title: Presenter: Brief Description: | eared her Ph.D. in Environmental Engineering from Illinois Institute of Technology, Chicago. rep Up Started Infoduction to Your DEQ Online Jassica 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 lo suped for this new platform. Tail or presentation will provide an overview of what lo suped for this new platform. This presentation will provide an overview of what lo suped for this new platform. This presentation will provide an overview of what lo suped for this new platform. | Notes: Confirmed? Phone: | Yes (Shared between all 3 Iracks) | | |
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| | Track A | Track B | Track C |
|---|---------------|-------------------|------------------|
| Tuesday | Hunter BD | | |
| Tuesday | | | |
| Wednesday | | | |
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| Thursday | | | |
| Thursday | | | |
| | | | |
| Moderator Upload Completed Sessions | ORWEF WES - (| DneDrive (sharepo | <u>pint.com)</u> |

| Web Page | $\underline{http://events.r20.constantcontact.com/register/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event?oeidk=a07ehjgtjr8da29990a\&llr=xocjm6rableseter/event}$ | | | | | |
|---|--|--------------------|------------------|------------|--|--|
| Zoom Registration (after payment completion) | https://clackamas.zoom.us/meeting/register, | /tJEvcuugrjssEtLiU | vE6ijkdL_YeKcD3c | <u>BAy</u> | | |
| Zoom link (day of) | https://clackamas.zoom.us/w/95252800686 | | | | | |
| Meeting ID: | 952 5280 0686 | | | | | |
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| Moderator Upload Completed Sessions | ORWEF WES - OneDrive (sharepoint.com) | | | | | |
| If you did get a link to a cloud recording, f | | | | | | |

| Movies for OESAC Approval | | | | |
|-------------------------------|---|---|----------------|---------------------------------|
| | | | | |
| Title | Description | TIME | Requested CEUs | Link for Water Env. School 2021 |
| 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 waterwaysthe 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. POISONED WATERS 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 | |

| Name | Company | Address City | <u>ST</u> | Zip | Phone | Email | | |
|-----------------------|-------------------------------------|-------------------------------|--------------|---------------------|-------------------------------|---------------------------------|------------------|------------------|
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| Ron Kent | AirGas | 11900 NE 95th S Vancouver | WA | 98682 | 503-247-2673 | ron.kent@airgas.com | | |
| | AIRVAC, Inc. | 4217 N OLD US ROCHESTER | IN | 46975 | | | | |
| Jeff Lavine | Alligator Communications | 1400 Coleman A Santa Clara | CA | 95050 | 408-327-0800 | jeffreyhl@alligatorcom.com | | |
| | ALLMAX SOFTWARE INC | 911 S MAIN ST KENTON | OH | 43326 | | | | |
| Bill McCarthy | American Scientific | PO Box 20847 Portland | OR | 97294 | 800-524-8224 | billm@amersci.com | | |
| | ANDRITZ SEPARATION INC | 1010 COMMERCARLINGTON | тх | 76001 | | | | |
| Marius Haegh | Anox Kaldnes | | | | 303-757-1519 | mah@anoxkaldnes.com | | |
| Lloyd Viles | Applied Industrial | 2910 Kauffman Vancouver | WA | 98660 | 360-695-3326 | lviles@applied.com | | |
| Roger Perrin | APSCO | PO Box 2639 Kirkland | WA | 98083 | 425-822-3335 | rperrin@apsco.org | | |
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| Bob Kanyer | Baker Tanks | | | | 503-775-7211 | rkanyer@rhfs.com | | |
| Brian May | Bartels & Stout | 22525 SE 64th P Issaquah | WA | 98027-8971 | 425-453-1705 | brianm@bartelsandstout.com | | |
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| Dave Jolly | Beckwith & Kuffel | 1614 NE 99th St Vancouver | WA | 98665 | 800-767-6700 | djolly@b-k.com | | |
| Si Norris | Benkomatic | 13101 NE Whital Portland | OR | 97230 | 503-255-9055 | snorris@benkomatic.com | | |
| Bob Sanders | Bio Reaction Industries | | | | 503-428-1638 | bsanders@bioreaction.com | | |
| | BIOWORKS NORTH AMERICA | | | | | | | |
| Robert Rhea | Borger | | | | 8/7-726-3743 | rrn@borger-pumps.com | | |
| | BYOGON | | ~ | 00044 | | | | |
| | CARBOLINE COMPANY | 600 TERRAINE / LONG BEACH | CA | 90814 | | | | |
| | Cascade Columbia | 14200 SW Tuala Sherwood | OR | 97140 | | | | |
| Diane Warner | CDS Technologies | DO Day 000 Mattheway | 10 | 00400 | 503-240-3529 | dwarner@cdstech.com | | |
| Michael Howe | | PO Box 200 Matthews | INC . | 20100 | 000-720-3331 | mchael.nowe@cem.com | | |
| | | 2019 CW 11th Ct Della Cround | | 96004 | | | | |
| Stove Courseouv | | 2918 SW TITI St Battle Glound | WA | 90004 | 252 945 4050 | ctour @cimconnut com | Nowly added p | constar for 2020 |
| Steve Causseaux | | | | | 253-845-4050 | steve@cimcopnw.com | Newly added - pr | esenter for 2020 |
| Dhilin Manuar | CLEANWAY ENVIRONMENTAL PARTNERS INC | 20529 Aiment De Europe | 00 | 07402 | E41 007 2055 | ainahilin Qaal aam | | |
| Philip weaver | Columbia Industrial Products | 29538 Airport Ro Eugene | OR | 97402 | 541-607-3655 | cippnilip@aoi.com | | |
| Sig Frencen | Controll | 11925 NE Clean Dedland | OR | 9/224-/900 | 503-664-5904 | coojon@consolidatedsupply.com | | |
| Sig Fransen | Control Contractors | 5000 SE 25th Bodland | OR | 97220 | 503-692-0410 | Intersets@contech-cpi.com | | |
| Larry O'Conner | Correct Equipment | 14576 NE 95th S Redmond | WA | 97202 | 503-668-4671 | timo@correctequipment.com | | |
| Rvan Holmon | CSI Geosynthetics | LIGTO NE SOULO REGITIONO | | 90032 | 360-690-1426 | rvan@csigeo.com | | |
| Heidi Jeffries | Drive Services | 16608 NE 37th A Vancouver | WA | DSESS | 360-882-7235 | hieffries@driveservices.com | | |
| Matt Lehr | Drummond American | | | 30000 | 360-722-6299 | mlehr@drummondamerican.com | | |
| I vnn Heffron | Duke's Root Control | 1020 Hiawatha R Suracuso | NY | 1220.4 | 315-472-4791 | lvnn@dukes.com | | |
| -ymm nemoli | | 1020 mawama E Sylacuse | | 13204 | 010-412-4181 | | | |
| | | 351 CYPRESS LEL CALON | CA | 00000 | | | | |
| David Blovom | | USI GIFREDOLEL CAJUN | | 92020 | 425-402 6020 | bloxomd@ecs-engineering.com | | |
| Michael Eurot | EDI | 5601 Paris Pd Columbia | MO | 65000 | -20-402-0029 | edi@wastewater.com | | |
| Frank Pour | | 13127 Stole Aver Mana III | | 65202 | 503-550 4000 | cuidwastewater.com | Nowly add - 1 | econtor for 0000 |
| Steven Adama | Emercon Power Transmission | 13127 State Aver Marysville | VVM | 982/1-7851 | 360-572 6040 | sadams@emorron.ont.com | newly added - pr | esenter for 2020 |
| Sieven Adams | | 122 NE 200 AVE DODT: 112 | OR | A=00- | 300-573-6042 | saudins@emerson-ept.com | | |
| | ENERGY SMART INDUSTRIAL | 123 NE 3RD AVE PORTLAND | UR | 97232 | | | | |
| | ENTEX TECHNOLOGIES INC | 400 SILVER CEL CHAPEL HILL | NC | 2/514 | | | | |
| Jim Lowe | ENVIRO-CLEAN EQUIPMENT INC | 2395 NW ELEVE GRESHAM | OR | 97030 | 503-491-3393 | jlowe@envirocleanequip.com | | |
| | ENVIRODYNE SYSTEMS INC | 5601 PARIS RO/ COLUMBIA | MO | 65202 | | | | |
| | ERPORTAL SOFTWARE GROUP | 59 INTERSTATE WEST SPRINGF | MA | 1089 | | | | |
| Mike Murphy | Evans Components | 7606 SW Bridger Portland | OR | 97224 | 502-282-1584 | mmurphy@evanscomponents.com | | |
| Bob Hunt | EZ Street | 4850 NW Front A Portland | OR | 97210 | 503-849-6377 | bobh@lakesideind.com | | |
| Victor Clements | Familian Northwest | 4120 NE Columb Portland | OR | 97211 | 360-835-2129 | lliehr@pacifier.com | | |
| Scott Bevens | Ferguson | 9129 N Tyndall A Portland | OR | 97217 | 503-240-6747 | scott.bevens@ferguson.com | | |
| | FisherRPM | 1400 Timber St S Albany | OR | 97322 | | | | |
| Roger Olsen | FKC | 2708 W 18th St Port Angeles | WA | 98363 | 360-452-9472 | mail@fkcscrewpress.com | | |
| Don Weiblen | Flow Products | 9400 SW Tualatii Tualatin | OR | 97062 | 503-224-6330 | ccanutt@flow-products.com | | |
| | FLOWWORKS INC | 327 SIXTEENTH SEATTLE | WA | 98122 | | | | |
| Richard Roche | FPS | | | | 503-285-8083 | mrmfps@aol.com | | |
| Gordon Fromm | Fromm | | | | 503-348-3658 | gfromm@teleport.com | | |
| | FROST ENGINEERING COMPANY - NW | PO BOX 2020 WOODINVILLE | WA | 98072 | | | | |
| | Furrow Pump | 8525 SW St Hele Wilsonville | OR | 97070 | | JB@furrowpump.com | | |
| | GABRIEL NOVAC COMPANY | 11 SPELLMAN R PLATTSBURGH | NY | 12901 | | | | |
| Pat Kuhnan | General Equipment Company | 6767 NE Columb Portland | OR | 97218 | 503-288-7447 | pat@general-equip.com | | |
| Doug Allie | Goble Sampson | | | | 425-392-0491 | dallie@goblesampson.com | | |
| | GODWIN PUMPS OF AMERICA INC | 8445 SOUTH 21 KENT | WA | 98031 | | | | |
| Ken Hogan | Granich Engineered Products | 1546 Boalch Ave North Bend | WA | 98045 | 425-888-8744 | kenh@granich.com | | |
| | Graybar | 901 NE 60th Ave Portland | OR | 97213 | | | | |
| Bret | Grease Guard | 2019 CORPORA NAPERVILLE | IL. | 60563 | 503-348-8516 | bret@greasegard.com | | |
| Tom Wolfe | Grundfos | 9300 Loiret Blvd Lenexa | KS | 66219 | | twolfe@us.grundfos.com | | |
| Rick Smith | Hach | PO Box 289 Loveland | CO | 80539 | 503-956-8164 | rismith@hach.com | | |
| | Harrington Plastics | 7051 Svv Sandbi Tigard | UR | 97223 | | | | |
| | HASA | 3400 Industrial V Longview | WA | 98632 | 707 557 4000 | | | |
| Michael Woodhurst | Hayward Industrial Products | One Hayward Inc Clemmons | NC | 2/012 | 707-557-1280 | mwoodhurst@haywardnet.com | | |
| | HD Fowler | 28800 SW Bober Wilsonville | OR | 97070 | | | | |
| | Heard Farms | 578 Rogers Roa Roseburg | OR | 97471 | | | | |
| | HELLAN STRAINER | 3249 EAST 80TH CLEVELAND | OH | 44104 | | | | |
| Bob Moeller | Hill Brothers Chemical Co | 1675 N Main St Orange | CA | 92867 | 800-257-1920 | bmoeller@hillbrothers.com | | |
| - TIII UNICOLE | | 1412 E DICUEY LIQUETON | UK TV | 97210 | ∠∪⊎-988-3625 | permetered minimax.com | | |
| | HOBAS PIPE USA | 1413 E RICHEY HOUSTON | IX | 77073 | | | | |
| Esk Destroy | NUTEMAN/LAMSUN | 1000 GARDNER QUINCY | IL OD | 62305 | E02 004 0 ···· | | | |
| Enk Berkey | Hubbard Chevrolet | 2937 G Street Hubbard | UR | 97032 | 503-981-9456 | sales@hubbardchevrolet.com | | |
| hade Daries | HUBER LECHNOLOGY INC | 9735 NORTH CF HUNTERSVILLE | NC | 28078 | 050 001 0111 | The last Querrant and | | |
| Jack Butcher | Industrial Chamical Management | PU BOX 1/1/ Auburn | WA | 98071 | 253-804-8666 | IUSJACK@QWEST.NET | | |
| Leanne Lewis | Industrial Systems | 5925 NE 122nd (D. dia | OR | 97123 | <i>ა</i> სა-ზ9 პ- 3155 | saieswichmeters.com | | |
| Doug Kelle | Inional Environmental Dessure | DODD INE 12200 / Portland | | 97230 | 000 004 00.0 | dkollov@inlanda.com | | |
| Brant Word | Inland Environmantal Resources | 401 E 27th St Tassar | WA | 99228 | 541-026-0400 | inland@inlandtoch.com | | |
| Bill Mackey | Interstate Roofing | 15065 SW 74th / Portland | OR | 98421 | 503-684 5644 | mana@manutech.com | | |
| Din widckey | | 2227 NE 125 SU SEATTLE | WA . | 9/224 | JUJ-004-5011 | | | |
| lim Propovost | | 15012 SW 72 Au Dorford | OP | 98125 | 503-620 0700 | irpropovost@iohpcropc.com | | |
| Bret Weymouth | | 1015 S Myrtle St Seettle | WA | 9/224 | 503-348-8516 | hweymouth@sourcet.com | | |
| Hank Scharringhouse | Kaman | 1703 NE Aroule (Dediard | OR | 98108 | 503-592 6724 | hank scharringhausen@komon.com | | |
| . and conditional set | I EMNA TECHNOLOGIES | 4215 WHITE RE VADNAID HTC | MN | 97211 55110-7541 | 500-522-0724 | namesonarmignadsch@namall.com | | |
| Bill Surber | Liquivision Technology | 711 Market St Klamath Falls | OR | Q7601 | 800-229-6959 | liquivision@divingservices.com | | |
| Steve Manwell | MagnaDrive | Market of Manath FallS | 211 | 91001 | 360-457-1766 | smanwell@magnadrive.com | | |
| Jack Jackson | Matheson Painting | 615 S Oregon Av Pasco | WA | 00301 | 800-735-1118 | iack@mathesonpainting.com | | |
| Chris Wagner | McGuire Bearing Co | 947 SE Market S Portland OP | Q7214 | 35301 | 503-730-5705 | cwagner@mcguirebearing.com | | |
| | MEURER RESEARCH INC | 16133 W 45th Dr GOLDEN | 5/2/14 CO | 80403 | | | | |
| | MISSION COMMUNICATIONS | 3060-C BUSINE! NORCHOSS | GA | 30071 | | | | |
| Joe Shrover | Mitchell Water & Waste | 9935 SW Comm Wilsonville | OR | 97070 | 503-682-3625 | | | |
| | MIXING & MASS TRANSFER TECHNOLOGIES | 10874 WILLOW PARKER | co | 80134 | | | | |
| | MJK | PO BOX 279 YELLOW SPGS | OH | 45387 | | | | |
| | MORTENSON CONSTRUCTION | | | | | | | |
| | MULTIFORM HARVEST | 3109 S FRONTE SEATTLE | WA | 98108 | | | | |
| Joel Klein | Municipal Supply | PO Box 627 Coquille | OR | 97423 | 800-523-6696 | sales@munisupply.com | | |
| Matt Strand | Munnell & Sherrill | PO BOX 13249 Portland | OR | 97423 | 503-281-0021 | mattstrand@munnell-sherrill.com | | |
| | Norlift | 7373 Milwaukie F Portland | OR | 91213 | 555 201-0021 | | | |
| | NORTH JACKSON COMPANY | 3225 NW DEER CORVALLIS | OR | 91222 | | | | |
| | Northstar Chemical | 14200 SW Tuala Sherwood | OR | 97330 | | | | |
| Margie Wilson | Northwest Hazmat | 36 West O Street Springfield | OR | 9/140 | 541-988-0922 | | | |
| Stuart Trebolhore | Northwest Pump | 2800 NW 31et A Detland | OR | 9/4/7 | 503-20F 2440 | strebelhorn@pwpump.com | | |
| Adam Kraueman | Northwest Underwater Construction | 2000 INVESTIGATION POLILIANO | JIN | 97210 | 360-381-0369 | adam@nwuwconst.com | | |
| Bill Annen | NRC Environmental Services | 6211 N Ension S Portland | OR | Q7217 | 503-283-1150 | bannen@nrces.com | | |
| John Lagerwey | Numberg Scientific | 18500 SW Teton Tuelatin | OR | 5/21/ 07062 | 503-246-8207 | iohn@nurnberg.com | | |
| Melissa Hurley | NW Geosynthetics | 8951 SF 76th Dr Portland | OR | 97002 | 503-240-0297 | melissa@acfwest.com | | |
| Dayle Ormeron | Orion Research | SSST GE 7001 DI POIUANO | JIN | 97206 | 425-825-0450 | d ormerod@oriopres.com | | |
| Sayle Onnelon | OVIVO USA 11 C | 2404 RUTI AND ALISTIN | тх | 70750 | 120-020-0459 | S.S.Morougonomes.com | | |
| Kitty Scott | Owen Equipment | 4201 NF 66th Av Vancouver | WA | 10108 | 503-805-7032 | kscott@owenequipment.com | | |
| , 500% | PACIFIC POWER PRODUCTS | 7215 SO. 228TH KENT | WA | 98033 | 000-1002 | | | |
| Ron Bascue | Pacific Power Vac | 4927 NW FRON' PORTI AND | OR | 0003Z | 503-680-0756 | rbascue@ppypw.com | | |
| Ken Loucke | Pacific Sales NW | 1027 INVERION PORTLAND | JIN | 97210 | 360-723-5404 | kenloucks@pacificsalespw.com | | |
| | | 1600 WEST 6TH VANCOUVER | BC | V6J 1R3 | 200 120-0481 | | | |
| Victor Pedropi | Pedroni & Co | 26646 SE 18th S Issaquah | WA | 98075 | 425-369-6164 | victor@pedroni-co.com | | |
| victor r curom | | | | | | | | |

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|-----------------|-------------------------------------|------------------|---------------|-----------|--------------|----------------|---|--|
| Name | Company | Address | City | <u>ST</u> | Zip | Phone Phone | Email | |
| | PENN VALLEY PUMP CO INC | 998 EASTON RO | WARRINGTON | PA | 18976 | | | |
| Curtic Urbon | Parkin Elmar | 11222 220th Ave | Competion | 10/0 | 09014 | 425 944 0520 | aurtia urban@parkinalmar.com | |
| Curus Orbein | F EI KIIT LIITIEI | 11222 32001 AVE | Camation | VV/4 | 50014 | 423-044-9320 | <u>curus.urben@perkineimer.com</u> | |
| Don Carlile | Pioneer Pump Co | 310 S Sequoia F | Canby | OR | 97013 | 503-678-5525 | dcarlils@pumpspsi.com | |
| | Plasti-Fab, Inc. | 9665 SW Tualati | Tualatin | OR | 97062 | | | |
| Kit Crooke | Portland Mechanical Contractors | 2000 SE Hanna | Milwaukie | OR | 97222 | 503-806-1913 | info@pmc-q.com | |
| Des Milles | Profiles laters affected | DO Devento | Descustes | 00 | 07025 | 500 000 1010 | de Operation de la companya de | |
| Dan Miller | Profiles International | PO Box 313 | Beaverton | UR | 97075 | 503-259-2487 | dan@employeeassessmentsolutions.com | |
| Steve Locke | Progressive Technologies | | | | | 360-607-3685 | locke.Chesterton@attglobal.net | |
| Greg MacDonald | Public Works Safety Supply Inc | PO Box 702 | Donald | OR | 97020 | 503-678-2981 | macsafety@publicworkssupply.com | |
| Gary Carter | PumpTech | 321 Seguioa Ph | Canby | OP | 07013 | 503-650-6230 | acatter@pumptechpw.com | |
| | | S21 Ocquioa 1 K | Danby | 01 | 57015 | 000-000-0200 | gentereputpteentweent | |
| Colin Christie | Puratil | 2654 Weaver Wa | Doraville | GA | 30340 | 800-222-6367 | <u>colin.christie@puratil.com</u> | |
| | PUREAIR FILTRATION | | | | | | | |
| Dan Miller | Quality Control Svc | 2340 SE 11th Av | Portland | OR | 97214 | 800-843-1237 | dan@gc-servicesequipment.com | |
| Doug Richter | Pain for Pent | 11035 Mary | Portland | OP | 97220 | 503-262-7246 | drichter@rainforrent.com | |
| | | TTUJJ IVIAIX | Fortiariu | 00 | 57220 | 303=202=7240 | | |
| Erich Lay | Reed Electric | 2539 NW Vaugh | Portland | OR | 97210 | 503-740-2074 | erichl@reedelectric.com | |
| | RH2 Engineering | 5335 Meadows F | Lake Oswego | OR | 97035 | | | |
| Jeff Springston | River City Environmental | PO Box 30087 | Portland | OR | 97294 | 503-252-6144 | ieffs@rivercitvusa.com | |
| Drian Mass | D IM Company | 0000 NE 1246 | Vanaariirar | 14/4 | 00600 | 260 020 5722 | heinemaan Orimaamaan oom | |
| Dilan woss | RJM Company | 9000 NE 134017 | vancouver | WA | 90002 | 300-020-3732 | bhannossi@ijincompany.com | |
| | RODNEY HUNT/FONTAINE | 46 MILL ST | ORANGE | MA | 1364 | | | |
| Andrew Ragen | Rogers Machinery Co | 14600 SW 72nd | Portland | OR | 97224 | 503-603-1914 | andrew.ragen@rogers-machinery.com | |
| Jason Mosebar | Romac Industries | 21919 20th Ave | Bothell | WA | 98021 | 425-951-6200 | iason mosebar@romacindustries.com | |
| Devilses | Bueek Ce | CEAE CIM Eather | Desuesten | 00 | 07000 | 502 644 8202 | | |
| RUY LOOP | RUBCK CU | 0015 SVV Fallbro | Deaventon | UR | 97008 | 003-044-8363 | ioy@rueckco.com | |
| Bob Kayner | Ryan Herco | | | | | 503-682-1141 | rkayner@ryanherco.com | |
| Steve Bridges | Safetycal | 4745 Pacific Ave | Eugene | OR | 97402 | 541-344-0944 | steve@safetycal.com | |
| John Masley | Sanderson Safety Supply | 1101 SE 3rd Ave | Portland | OR | 97214 | 503-238-5700 | order@sansafe.com | |
| som masicy | | 2250 NE UOE | DUILLMAN | 14/4 | 00100 | 333-200-0100 | | |
| | SCHWEITZER ENGINEERING LABORATORIES | 2350 NE HOPKI | PULLMAN | WA | 99163 | | | |
| Brian McMorris | Scientific Technologies | 6900 W 110th St | Minneapolis | MN | 55438 | 763-476-8632 | brian_mcmorris@sti.com | |
| | SELG & ASSOCIATES INC | 22224 THIRD AN | BOTHELL | WA | 98021 | | | |
| Miko Lommon | SEE Clobal | 1212 E Maple St | Pollingham | 14/4 | 09225 | 425 699 0265 | miommon@cfoonline.com | |
| WINE LEITINET | SFE GIODAI | 1313 E Maple 3 | Beilingham | WA | 90223 | 423-000-0203 | mennen@steonne.com | |
| | SHANNON & WILSON INC | 400 N 34TH STF | SEATTLE | WA | 98103 | | | |
| | SHERWIN WILLIAMS COMPANY | 3326 160TH AVE | BELLEVUE | WA | 98008 | | | |
| | SMITH & LOVELESS INC | 14040 SANTA FI | LENEXA | KS | 66215 | | | |
| | STANTEC CONSULTING INC | 11120 NE 2200 | | 14/4 | 09004 | | | |
| | | THOUNE JOKD | BELLEVUE | WA | 50004 | | | |
| Barbara Macnab | Star Industrial Supply | PO Box 10264 | Portland | OR | 97210 | 503-255-3387 | barbara@starindustrial.com | |
| Keith Van Dyke | TAG | | | | | 541-852-9066 | kvandyke@tag-inc.us | |
| | TAG (THE AUTOMATION GROUP) | 4678 ISABELLE | EUGENE | OR | 97402 | | | |
| leff Calaar | Taurus Baues & Castrola | 0000 Aueru | Tueletie | 00 | 07062 | 502 602 0004 | ieffe @teurseener.eem | |
| Jell Geisel | Taurus Power & Controls | 9999 Avery | Tualaum | UR | 97062 | 503-692-9004 | jeligi@taufuspower.com | |
| | THERMA-FLITE INC | 849 JACKSON S | BENICIA | CA | 94510 | | | |
| Jeff Allen | Thermo Orion | | | | | 253-265-1614 | j.allen@thermoorion.com | |
| David Semanske | Thermo Scientific | | | | | 206-407-8572 | | |
| David Ochianake | | | | | | 200-401-0372 | | |
| Lewis Titus | Titus Industrial Group | 1450 NW GARD | PRINEVILLE | UR | 97754 | 541-389-1975 | ititus@neveneek.com | |
| Tom Gazdik | TMG Services | 3216 E Portland | Tacoma | WA | 98404 | 253-779-4160 | tom@tmgservices.net | |
| Joe Roberts | Tri Motor & Machinery | 1065 SE 2nd | Canby | OR | 97013 | 503-266-6838 | trimotors@worldnet.att.net | |
| | TRIANGLE PLIMP & FOUIPMENT INC | 7509 S 5 ST ST | | WA | 98642 | | | |
| | | 0000 0 0 0 0 0 0 | | 01 | NEV ATT | | | |
| | TRUJAN TECHNOLOGIES | 3020 GORE RO | LONDON | UN | N5V417 | | | |
| | UBERLYTICS LLC | 1767 12 ST #25 | HOOD RIVER | OR | 97031 | | | |
| | UNISORB CANDA LTD | 11815 145 ST | EDMONTON | AB | T5L 2H4 | | | |
| | URS ELECTRONICS/PELCO | 123 NE 7TH AVE | PORTLAND | OR | 97232 | | | |
| Alon An | US Delumer Com | 000 NE T | Veneeu | 14/4 | 00000 | 800 845 745 (| alan Quanahuman aam | |
| Aidli All | US Folymer Corp | out ine tenney i | vancouver | vvA | 98085 | 000-010-7454 | aranieusporymer.com | |
| LaAnn Mayer | USA Blue Book | 3781 Bur Woopd | Waukegan | IL. | 60085 | | imayer@usabluebook.com | |
| Joe Shields | USNR | PO Box 310 | Woodland | WA | 98674 | 360-225-8267 | joes@usnr.com | |
| | VELODYNE | 543 S PIERCE A | LOUISVILLE | со | 80027 | | | |
| | VICTALILIC | 4001 KESSI CD | EASTON | PA | 19040 | | | |
| | | -JUINEGOLER | ENGION | | 10040 | | | |
| | VUGELSANG USA | PO BOX 751 | RAVENNA | UH | 44266 | | | |
| Joyce Baxter | Voice Stream | | | | | 503-515-2838 | | |
| Ryan Rosenfeld | VWR International | | | | | 503-519-3802 | ryan-rosenfeld@vwr.com | |
| Don Lauinger | Water Truck Service | PO Box 1130 | Wilconville | OP | 07070 | 503-682-2722 | | |
| Don Launiyer | | FOOD 00 00 00 | | | 510/0 | 303-002-2723 | | |
| | WATERSULVE LLC | 5031 68 ST SE | CALEDONIA | M | 49316 | | | |
| | WATSON MARLOW | 37 UPTON TECH | WILMINGTON | MA | 1887 | | | |
| | WEMCO PUMP | 440 W 800 S | SALT LAKE CIT | UT | 84101 | | | |
| Richard King | Wesco Distribution | 225 W Station C | Pitteburgo | PA | 15210 | 503-781 0644 | rking@wasso.com | |
| | Wesco Distribution | 223 VV Station S | r iusbuige | FA | 15219 | 503-701-0044 | INIIQUEWESCO.COIII | |
| David Riese | Westco Scientific Instruments | | | | | 203-740-2999 | davidr@westcoscientific.com | |
| | WESTECH ENGINEERING INC | 3625 S WEST T | SALT LAKE CIT | UT | 84115 | | | |
| Mike Reilly | WH Reilly | 910 SW 18th Ave | Portland | OR | 97205 | 503-223-6197 | mreillv@whreillv.com | |
| , | WHIPPS INC | 270 SOUTH AT | | MA | 4004 | | | |
| | WHIFFS ING | JU SOUTHAIF | AITUL | IVIA | 1331 | | | |
| | WILO USA | 86 GENESIS PA | THOMASVILLE | GA | 31792 | | | |
| Al Rossmeisl | Wincan America | 1115 Madison St | Salem | OR | 97301 | (503) 931-2334 | | |
| Patrick Vail | Woodstove Emporium | 13980 Tualatin V | Beaverton | OR | 97005 | 503-641-1919 | | |
| leff Chan/ak | Zen Manufacturing | 21010 77th Arres | Kent | W/A | 00000 | 253-872 2525 | ieff chan/ak@zepmfa.com | |
| Join Gridrydk | | 21013 / / UI AVE | Rent | *** | 90032 | 200-012-2020 | jon.onaryax(@20philg.com | |
| Andrea Adamson | Chemica | | | | | 503-352-0262 | aadamson@chemica.com | |
| Chris Niehaus | Superior Glove Works, LTD | 36 Vimy St | Action | ON | L71S1 CANADA | 800-265-7617 | chris.niehaus@superiorglove.com | |

Water Environment School 2021 Committee Roster

| Water Environment School 2021 Committee Roster | | | | | | | | | | |
|--|--|--------------------------------------|---------------------|-------------------------------------|--|--|--|--|--|--|
| Name | Section | Agency | Phone | Email | | | | | | |
| Andersen, Jeannie Stormwater | | Clackamas Water Environment Services | 503-742-4554 | jeannieand@clackamas.us | | | | | | |
| Bennett-Daggett, Hunter | Collections | Tetra Tech | 508-494-1315 | hunter.bennettdaggett@tetratech.com | | | | | | |
| Busby, Erin | Collections | Veolia - City of Sandy | | erinelizabethbusby@gmail.com | | | | | | |
| Collofello, Ami | College Admin Support | CCC | | ami.collofello@clackamas.edu | | | | | | |
| Drew, Phil | Safety & Health | Saddle Mountain Safety Management | 503-936-4893 | sm2safety@yahoo.com | | | | | | |
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| Grimes, Brittany | Pretreatment | City of Portland | | brittany.grimes@portlandoregon.gov | | | | | | |
| Hart, Jeff | Asset Management/Technology/Activated Sludge | Clean Water Services | 503-547-8187 | HartJ@cleanwaterservices.org | | | | | | |
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| Swann, Andria | Pretreatment | City of Sumner. WA | 253-299-5713 | driaswann@gmail.com | | | | | | |
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| Zak, Matt | Operations and Maintenance | Clackamas Water Environment Services | 971-804-1427 | Mzak@clackamas.us | | | | | | |
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