



**CEU Application – Agenda, Program and Instructor Information, and Relevance to Wastewater Professionals**

**2023 ACWA Annual Conference**

**Tuesday-Thursday, July 25-27, 2023**

CEUs requested: This webinar conference contains 13 hours of eligible content, equating to 1.3. CEUs being requested.

This document includes the information required to demonstrate eligibility for general CEUs, including: 1) the educational need for the program provided; 2) the learning outcome for attendees; 3) an outline of the course content; 4) the qualifications of the instructors; 5) the time schedule; and 6) the method of tracking on-line attendance for the duration of the workshops.

**Educational Need and Learning Goals:**

The ACWA Annual Conference is convened annually to educate and update wastewater and stormwater management professionals and utility managers across the state on current issues and trends impacting their work to protect Oregon’s water quality; in particular, the conference focuses in on the water quality and regulatory compliance challenges facing wastewater agencies, and innovative, science-based solutions. The goal of the conference is to increase the knowledge and understanding of wastewater and stormwater managers, engineers and operations professionals regarding current and anticipated water quality regulations, water quality challenges, and technologies and operational controls for managing and improving water quality in the face of emerging pollutants issues of concern.

The course emphasizes science-based information, regulatory compliance pathways and strategies, and national and statewide priorities and actions that impact wastewater and stormwater infrastructure. The course also educates attendees regarding emergent issues and challenges that must be addressed through adaptive management, such as climate change impacts and affordability issues in the wastewater utility sector. Finally, the conference addresses sustainable utility management practices that are applicable to the wastewater sector.

**Method of Tracking Attendance:**

All attendees wishing CEUs will be required to sign a CEU registration and certification roster for the sessions, which will be attended by a conference logistical coordinator. ACWA will monitor attendance and the roster and will sign and maintain the roster as required.

<b>Time</b>	<b>Topic</b>	<b>Presentation Description, Relevance to Oregon Wastewater Professional Knowledge; Instructor Information</b>
<b>9:30 am</b>	<b>Welcome and ACWA Announcements</b> ...Corissa Holmes, ACWA Chair	<i>Corissa Holmes</i> will provide an introductory overview of the conference and describe the overarching theme of preparing our utilities for the future.
<b>9:40 am</b>	<b>Charting the Path for Oregon’s Water Future</b>  ...Representative Ken Helm  <b>Moderator:</b> Corissa Holmes	<b>Session Information Including Relevance to Wastewater Professional Knowledge:</b> Representative Ken Helm will discuss the efforts by the state legislature, state agencies, and stakeholders to tackle Oregon’s water problems for the last several legislative sessions. Through legislative appropriations, the state has invested an unprecedented

		<p>amount of general fund resources in water supply and water quality issues and infrastructure over the past several years. During the 2023 session that concluded on June 25<sup>th</sup>, the Legislature passed HB 2010, a \$110 million omnibus funding bill that will fund many state and regional efforts to address drought, water supply, and water quality and build water resilience to climate change impacts. Representative Helm will outline key elements, emphasizing the elements wastewater and stormwater management agencies need to be aware of for future funding and opportunities to support Oregon’s water sustainability through resource recovery and recycling of treated wastewater. This is highly important and relevant to wastewater professionals, who are in the midst of addressing new water quality challenges and permitting requirements, facilities planning efforts, and broader community efforts to address water needs and environmental justice issues.</p> <p><b>Speaker Information:</b>  Representative Ken Helm has served as a member of the House of Representatives of the Oregon legislature since 2015, most recently as the representative for House District 27. Representative is a land use attorney by trade. Prior to being elected, he managed a solo land use law practice. Prior to opening his own practices, he worked as a land use attorney for Metro in the land use section. Representative Helm has a JD degree and a BA degree in History from Willamette University.</p>
10:40 am	<b>Break</b>	
11:00 am	<p><b>How Wastewater Scientists Became COVID-19 Detectives and What this Sleuthing Means for Detection and Management of Future Pandemics</b></p> <p>...Blythe Layton, Clean Water Services  ...Tyler Radniecki, Oregon State University</p> <p><b>Moderator:</b> Corissa Holmes</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b>  This session will tell the story of how routine wastewater-based disease surveillance came to exist in Oregon. During the early days of the pandemic, three determined scientists had a vision of how wastewater could help, and they quickly wrote and won a National Science Foundation grant to make this vision a reality. That small grant quickly expanded to a large statewide program covering over 40 facilities, overcoming many major challenges along the way, and now monitors for more pathogens than just the COVID-19 virus. This session will discuss how this project contributed to the science of wastewater-based epidemiology as well as describe the past, present, and future of Oregon’s wastewater surveillance program. Wastewater professionals will gain an understanding of how pathogens are detected in wastewater, how those measurements correspond to traditional health metrics, and why monitoring for diseases in wastewater is useful.</p> <p><b>Speaker Information:</b>  <i>Blythe Layton</i> is a Senior Research Program Manager at Clean Water Services, where she started the Molecular Biology laboratory in 2020. Previously she was a Faculty Research Associate at Oregon State University, as well as a Microbiologist with the Southern California Coastal Water Research Project (SCCWRP) for 5 years. Blythe earned MS and Ph.D. degrees in Environmental Engineering Science from Stanford University,</p>

		<p>where her thesis focused on microbial source tracking in the coastal environment.</p> <p><i>Tyler Radniecki</i> is an Associate Professor of Environmental Engineering at Oregon State University. Dr. Radniecki earned his Ph.D. in Environmental Engineering at Yale University and received the NSF CAREER Award in 2019, OSU’s Beaver Champion Award in 2021, the Oregon Association of Clean Water Agencies Outstanding Individual Award (w/Christine Kelly (OSU) and Ken Williamson (Clean Water Services)) in 2021 and Oregon State University College of Engineering Collaborative Research Award in 2022. He is the co-director of the OSU-Benton County Green Stormwater Infrastructure Research (OGSIR) facility, a co-PI of OSU’s TRACE program and the laboratory lead-PI in the Oregon Health Authority’s state-wide wastewater surveillance program. Dr. Radniecki’s research interests revolve around sustainable biological stormwater and wastewater treatment systems as well as wastewater-based epidemiology.</p>
12:00 pm	<b>Lunch with roundtable discussions</b>	
1:30 pm	<p><b>Show Us the Money...A Fresh Look and a New Playing Field for Siezing State and Federal Funds for Your Wastewater and Stormwater Infrastructure</b></p> <p>...Chris Marko, Oregon DEQ  ...Alli Miller, Oregon DEQ</p> <p><b>Moderator:</b> Ryan Largura</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b>  Staff from DEQ’s Clean Water State Revolving Fund program will discuss opportunities for financing wastewater and stormwater infrastructure. The session will highlight new funding for a wide range of clean water infrastructure projects including wastewater, sewer overflow and stormwater projects, green projects, restoration and conservation and emerging contaminants. The session will focus on funding under the Bipartisan Infrastructure Law for the Oregon CWSRF program through U.S. Environmental Protection Agency including program updates, environmental justice priorities, and financial incentives, including principal forgiveness. The session will engage participants to consider how their project can utilize new and existing funding and resources for local community infrastructure projects in Oregon. Understanding how to navigate and access the various infrastructure funding sources, programs, and agencies is critically important to wastewater agencies.</p> <p><b>Speaker Information:</b>  Chris Marko serves as the Program Coordinator for the Oregon Department of Environmental Quality Clean Water State Revolving Fund to finance water quality and infrastructure improvement projects throughout Oregon. He has 30 years of experience working for local government and non-profit organizations in the areas of land use, affordable housing, energy, infrastructure, community economic development, and advocacy. He has extensive experience with training and technical assistance for communities to plan, develop, finance and manage water and wastewater systems. Marko holds a MA degree from the University of Oregon Planning, Public Policy, and Management Department (PPPM) in Public Affairs, focusing on Natural Resource Management and Community Economic Development.</p>

		<p><i>Alli Miller</i> has been with DEQ as a Program Analyst for almost one year. Previously she worked as a Program Assistant at the David and Lucile Packard Foundation, stewarding and managing grants in the Organizational Effectiveness Program, helping communities have funding to build their organizational capacity, in the Conservation and Science program focusing on sustainable palm oil and wetland conservation, and with the foundation’s Mission Investing program. Alli has also worked at various non-profits that provided at-risk and marginalized communities with health, housing, employment, and educational resources. She received her Master’s degree in Public Policy at Portland State University with a certificate in Sustainable Food Systems and a focus on Environmental Justice and Natural Resource Management. She received her undergraduate degrees in Political Science and Psychology from the University of Wisconsin-Madison.</p>
2:30 pm	<b>Break</b>	
<p>2:45 pm-3:45pm; Repeat 4:00 pm – 5:00 pm</p>	<p style="text-align: center;"><b><u>Concurrent Sessions</u></b></p> <p>1. <b>Before the Pipes—The Evolution of Wastewater Source Reduction and Pollution Prevention</b></p> <p style="padding-left: 40px;">...Christina Davenport, Leeway Engineering</p> <p><b>Moderators:</b> Session 1—Stephanie Kerns  Session 2—Jolene Willis-Lujan</p>	<p><b>Session 1 Information and Relevance to Wastewater Professional Knowledge:</b> Christina Davenport of Leeway Engineering will provide an overview of pretreatment regulations and how programs can adapt to emerging contaminants with a focus on recycled water and biosolids. She will address all the elements of a modern pretreatment or source control program including the influence on wastewater collections, treatment, resource recovery, cost of service/billing and water conservation. She will discuss how to plan holistically within a community or a region to leverage public/private partnerships and interjurisdictional agreements that benefit all stakeholders, using innovative, cost-effective solutions for managing wastes and recovering resources while protecting the environment. The presentation will include some specific case studies on resource recovery and industrial source control. As wastewater agencies continue to see an expanding range of emergent contaminants that must be addressed by publicly owned treatment works, this session is important to add new tools and strategies to agencies’ tool kits for addressing them.</p> <p><b>Speaker Information:</b> <i>Christina Davenport</i> recently joined Leeway Engineering Solutions and brings more than 20 years’ experience developing and managing public health and environmental programs in state and local government. Passionate about finding innovative and sustainable solutions for managing resources, she brings diverse stakeholders together to find unique opportunities to improve utility performance, enhance facility operations and source control, while also identifying beneficial resource recovery and reuse alternatives. Christina holds a BS degree in Biology from East Carolina University, a Certificate in Public Health Administration from the University of North Carolina, Chapel Hill and is a 2020 graduate of Water Environment Federation, Utility Leadership Institute.</p>

	<p>2. <b>Using the “Effective Utility Management” Framework to Energize your Strategic Planning Process</b></p> <p>...Jim Ginley, Jim Ginley Consulting, LLC  ...Ron Wierenga, Clackamas WES  ...Shelly Parini-Runge, Clackamas WES</p> <p><b>Moderators:</b></p> <p>Session 1—Todd Miller  Session 2—Johnny Leavy</p>	<p><b>Session 2 Information and Relevance to Wastewater Professional Knowledge:</b></p> <p>The presentation will introduce the Effective Utility Management (EUM) framework, which is the product of the ongoing collaboration between USEPA and several of the leading water sector professional organizations. The presenters will share how the framework was built, explain its core components and tools, and describe how it is designed to be adopted and implemented by water sector utilities. Clackamas Water Environment Services (WES) will share the discovery process they used to prepare for updating its strategic plan. The WES Exchange included: group interviews, online surveys, and virtual focus. The Exchange further helped WES better understand how it could build a more resilient future for its department, employees and customers. This highly collaborative discovery process identified key opportunities to enhance WES’ mission, vision, and core values. It set the stage for a productive Performance Clackamas reboot and the creation of a bold new strategic plan for its organization. The group will learn how WES used the Ten Attributions of Effective Utility Management to confirm their strategic priorities, and the use of performance measures to help track and report their progress to both internal and external stakeholders. This session is relevant to wastewater and stormwater utilities because prioritization of resources and efforts is critical to maintaining and operating clean water infrastructure in today’s world.</p> <p><b>Speaker Information:</b></p> <p><i>Jim Ginley</i> has spent nearly 34 years in the water sector as a not-for-profit association professional, utility management and technology consultant, and regulatory compliance specialist. His areas of expertise include strategic planning, organizational assessments, benchmarking, and performance improvement, as well as workshop and focus group facilitation and training. He was part of the team that built the nationally known and multi-association sponsored EUM framework (in 2007 and 2008) and was retained by AWWA to build and present the revised version. He has an MS degree in Environmental Management, Resource Ecology from Duke University in North Carolina and a BA degree in Biology from Kenyon College in Ohio.</p> <p><i>Ron Wierenga</i> is a 20-year professional of public works and environmental services for which 13-years were spent working for Clark County Washington where he was responsible for the county’s Clean Water and Legacy Lands programs. Currently Ron is the Assistant Director for Clackamas Water Environment Services where he manages the District’s Business and Environmental Services. His scope includes administrative services, budget administration and finance, customer service, policy development and interpretation, regulatory affairs, and strategic planning. Ron has BS and MS degrees from Washington State University in Environmental Science.</p> <p><i>Shelly Parini-Runge</i> works for Clackamas Water Environment Services in an External Affairs leadership role overseeing strategic</p>
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**Wednesday, July 26, 2023**

<b>Time</b>	<b>Topic</b>	<b>Presentation Description, Relevance to Oregon Wastewater Professional Knowledge; Instructor Information</b>
<b>7:30 am – Optional</b>	<b>NACWA Breakfast</b> ...Nathan Gardner-Andrews, NACWA	Optional breakfast presentation of NACWA priority issues
<b>8:30 — 9:15 am</b>	<b>EPA—After 50 Years of the Clean Water Act, What’s Next?</b>  ...Andrew Sawyers, US EPA  <b>Moderator:</b> Amy Pepper	<b>Session Information and Relevance to Wastewater Professional Knowledge:</b> EPA Office of Wastewater Management Director Andrew Sawyers will discuss the first 50 years of the Clean Water Act and its remarkable success. In applying the lessons of past to the future, addressing the needs of communities across America will take all of us working together in partnership. Advances in water quality in decades to come will be the result of collective knowledge, innovative ideas, collaboration, and taking some

		<p>risks. This presentation is relevant to wastewater and stormwater professionals, because it is important for them to understand and be able to anticipate future regulatory actions by EPA that will become regulatory and permitting drivers for clean water programs in Oregon.</p> <p><b>Speaker Information:</b>  <i>Andrew D. Sawyers</i> is the Director of the Office of Wastewater Management at the U.S. Environmental Protection Agency in Washington, DC. He oversees the National Pollutant Discharge Elimination System (NPDES) program, the Clean Water Act’s mechanism for the permitting of municipal and industrial discharge into surface waters of the U.S. As the Director of OWM, Andrew is also responsible for multiple technical and financial assistance tools for the development and maintenance of the country’s wastewater infrastructure, including WIFIA, the Clean Water State Revolving Fund (SRF) and EPA’s Water Finance Center. He previously worked for the Maryland Water Quality Financing Administration where he managed the state’s Clean Water and Drinking Water SRFs and the Maryland’s Chesapeake Bay Restoration Fund. Andrew has a Ph.D. from Johns Hopkins University in Geography and Environmental Engineering.</p>
9:15— 10:00 am	<p><b>Puget Sound Nutrient Permitting—an Update from the Association of Washington Counties</b></p> <p>...Amanda McInnis, Jacobs</p> <p><b>Moderator:</b> Todd Miller</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b>  This session will cover the current nutrient permit and the compliance needs for the regulated community; the 58 plants that discharge into Puget Sound. It will describe the role the Association of Washington Cities has played in providing technical support for planning and rate evaluation activities as well as compliance with the State of Washington’s Environmental Justice permit language. The permit is facing a legal challenge before the Pollution Control Hearings board; some permit provisions are on hold pending a court ruling. This session is of particular importance to wastewater professionals because Oregon has not had widely applied nutrient requirements and is now beginning to tackle a statewide regulatory framework for nutrients. The wastewater sector needs to get prepared for upcoming regulations and strategies to address them.</p> <p><b>Speaker Information:</b>  <i>Amanda McInnis</i> is a registered engineer in the State of Washington and has more than 25 years of experience as a consultant. She is a senior Project Manager at Jacobs with a strong technical background in nutrient removal.</p>
10:00 am	<b>B R E A K</b>	
10:20 - 11:05 am	<p><b>Microplastics—Relevance to Wastewater and Approaches to Source Reduction</b></p> <p>...Susanne Brander, Ph.D. Oregon State University</p> <p><b>Moderator:</b> Torrey Lindbo</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b>  Microplastic pollution and the need to limit plastic production and plastic waste generation at the source is an environmental challenge affecting professionals working on water issues globally. Microplastics, many of them microfibers, have been found in Oregon’s seafood, waterways, and wastewater. This talk will discuss data from studies on microplastics that are either</p>



		<p>ongoing in Oregon or relevant to the region, as well as potential mitigation approaches for reducing their presence in wastewater. Relevant strategies currently being implemented in other states, such as California, will be discussed. This presentation is relevant to wastewater professionals because microplastics are considered and emerging contaminant of concern.</p> <p><b>Speaker Information:</b>  <i>Susanne Brander, Ph.D.</i>, is an Associate Professor at Oregon State University, based at the Hatfield Marine Science Center. As an ecotoxicologist she studies the impact and occurrence of contaminants of emerging concern, including micro and nanoplastics. Brander’s research program, which has been funded by NOAA, DOE, EPA, NSF, Oregon Sea Grant, and California state agencies, encompasses the fields of toxicology, endocrinology, and ecology, integrating molecular approaches with measurements at the organism and population level. Her current focus is on the effects of stressors, such as emerging pollutants, microplastics, and climate change, on aquatic organisms. She received a Ph.D. in Toxicology and Pharmacology from UC Davis in 2011, conducting research mainly based at the UC Davis Bodega Marine Laboratory. She also has an MS degree in Environmental Science and Policy from Johns Hopkins University (2005) and a BS degree from Elizabethtown College (1999).</p>
<p>11:05 am - 12:15 pm</p>	<p><b>PFAS—It Just Won’t Go Away...</b></p> <p>...Ron Wierenga, Clackamas WES  ...Kevin Masterson, Stony Creek Consulting  ...Pat Heins, Oregon DEQ  ...Frank Dick, City of Vancouver  ...Abigail Tomasek, Ph.D., Oregon State University</p> <p><b>Moderator:</b> Ron Wierenga</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b></p> <p>Per- and polyfluoroalkyl substances – or PFAS – have become a top priority class of pollutants for water quality agencies across the county, with several new standards and permit requirements proposed or under development in response to the growing body of knowledge about impacts to people and the environment. This session will provide the latest on the status of U.S. EPA’s and Oregon DEQ’s PFAS priorities and plans, as well as the actions taken and proposed by ACWA to inform and assist member agencies and regulatory authorities in tackling PFAS challenges. These actions include communicating ACWA priorities and strategic directions, filling data gaps in Oregon on the fate and transport of PFAS in biosolids and sources of PFAS in wastewater and stormwater, and providing outreach resources and tools to help prevent PFAS pollution at the source. This session is highly relevant to wastewater professionals because of the recognition of PFAS toxicity at low levels and federal efforts to regulate them through NPDES wastewater discharge permits.</p> <p><b>Speaker Information:</b></p> <p><i>Ron Wierenga</i> is a 20-year professional of public works and environmental services for which 13-years were spent working for Clark County Washington where he was responsible for the county’s Clean Water and Legacy Lands programs. Currently Ron is the Assistant Director for Clackamas Water Environment Services where he manages the District’s Business and</p>

		<p>Environmental Services. His scope includes administrative services, budget administration and finance, customer service, policy development and interpretation, regulatory affairs, and strategic planning. Ron has BS and MS degrees from Washington State University in Environmental Science.</p> <p><i>Kevin Masterson</i> has over 35 years of experience developing and implementing pollution management and reduction programs in Oregon and Southwest Washington. He is currently Senior Environmental Consultant for Stony Creek Consulting, focusing on toxics reduction and assessment initiatives with non-profit organizations, including the Oregon Association of Clean Water Agencies. Previously, Kevin worked for the Oregon Department of Environmental Quality for 27 years in several roles across multiple programs, including leading toxics reduction, stormwater permitting, and pollution prevention programs. Prior to his career at DEQ, he spent 7 years working on regional environmental protection programs in Vancouver, Washington. Kevin holds Bachelor's and Master's degrees from the University of Oregon.</p> <p><i>Pat Heins</i> has over 25 years of experience working in environmental compliance. He started out working as an analyst for an environmental laboratory and an assistant environmental compliance manager for a manufacturing facility, before working as a consultant for 14 years. Pat started working for Oregon Department of Environmental Quality in 2014 in the NW region and is now working in DEQ's headquarters as the state biosolids and recycled water program coordinator. He also serves as a permit writer for individual and statewide Water Pollution Control Facility permits. Pat has a BA degree in Environmental Biology from the University of Montana and a Bachelor of Applied Science degree in Hazardous Waste Management from Concordia University in Portland.</p> <p><i>Frank Dick</i> oversees wastewater engineering, pretreatment, and administration functions for the City of Vancouver, Washington's wastewater services. He also oversees planning and capital projects for Vancouver's sewer and wastewater treatment systems. Prior to his position at the City of Vancouver, he spent over 15 years at semiconductor and electronics manufacturing facilities in the Portland-Vancouver area, in consultant and staff positions for facilities engineering and environmental compliance. Mr. Dick currently serves as the Co-Chair of the National Association of Clean Water Agencies' Pretreatment and Pollution Prevention Committee and is active with the planning committee for the Pacific Northwest Pretreatment Workshop, to be held in September in Vancouver, WA. Mr. Dick earned his BS degree in Chemical Engineering from Washington State University.</p> <p><i>Abigail Tomasek, Ph.D.</i>, is an Assistant Professor in the Department of Crop and Soil Sciences and is the statewide Soil and Water Quality Extension Specialist at Oregon State University. She has worked locally and internationally on the effects of land management practices on soil and water quality,</p>
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		and she is broadly interested in developing and implementing practices that promote agricultural productivity while maintaining environmental health. In her extension role, she is interested in learning from and working alongside the Pacific Northwest’s agricultural community to co-create efficient, innovative, and sustainable agricultural practices. Dr. Tomasek has a Ph.D. in Civil Engineering from the University of Minnesota, an MS degree in Environmental and Resource Engineering from the University of Texas in Austin, and BS degrees in Civil Engineering and in Environmental Science from the University of Minnesota.
12:00 pm	<b>L U N C H</b>	
1:30 – 2:30 pm	<p><b>Oregon Water Quality Programs—Building on Foundations</b></p> <p>...Jennifer Wigal, Oregon DEQ</p> <p><b>Moderator:</b> Jerry Linder</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b></p> <p>Ms. Wigal will provide updates and previews from DEQ’s Water Quality Division, including plans to tackle new challenges and how the agency will partner with local government agencies. It is important for wastewater and stormwater management professionals to understand the regulatory drivers and mandates DEQ is delegated to implement, including the impacts of updated Total Maximum Daily Loads, water quality standards and litigation results.</p> <p><b>Speaker Information:</b></p> <p><i>Jennifer Wigal</i> is the Administrator for the Oregon DEQ Water Quality Division. Prior to this appointment, she served as Deputy Administrator since April of 2018, and as the Water Quality Program Manager before that. Ms. Wigal is responsible for administration of all DEQ Water Quality Programs, including Water Quality Permitting, Water Quality Standards, and Water Quality/Watershed Assessments. Prior to coming to DEQ in 2008, Jennifer built her expertise in water quality programs through various positions at U.S. EPA Headquarters during her 10 years there. Jennifer holds an MS degree in Environmental Engineering from Johns Hopkins University and a BS degree in Civil Engineering from Washington State University.</p>
2:30 pm	<b>B R E A K</b>	
2:50 – 4:00 pm	<p><b>Complying with Oregon’s Temperature Standards and Making a Real Difference for Fish—Strategies for Wastewater Utilities</b></p> <p>...Todd Miller, Springfield/MWMC</p> <p>...Laurel Stratton Garvin, USGS</p> <p>...Josh Proudfoot, Good Company (Parametrix)</p> <p><b>Moderator:</b> Kristin Preston</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b></p> <p>Oregon’s temperature standard and temperature TMDLs pose new challenges to wastewater utilities who are addressing thermal load restrictions for the first time. This presentation will lead the audience through understanding how temperature may uniquely affect their utility and the critical understanding that paper compliance in absence of the environmental considerations of mitigation strategies may not achieve, and may possibly exacerbate, the challenges of meeting habitat and water quality goals of the limits. The panel will do this through presentation of ACWA’s Cooling Tower Life Cycle Analysis study report in collaboration with the United States Geological Survey and Parametrix – Good Company.</p>

		<p><b>Speaker Information:</b>  <i>Todd Miller</i> has a 35-year career spanning multiple water resource and environmental management endeavors serving local governments, nonprofits, and small and large companies including water quality protection, watershed and wetland restoration, environmental investigations, and community engagement and education. Todd is presently an Environmental Services Supervisor with the City of Springfield where he leads the Policy Support and Planning section for the Metropolitan Wastewater Management Commission (MWMC). Miller holds an MS degree in Environmental Studies from the University of Oregon and a BS degree in Geology from the University of Rochester in New York. He is a Registered Geologist in Oregon.</p> <p><i>Laurel Stratton Garvin, Ph.D.</i>, is a hydrologist and geomorphologist with the Oregon Water Science Center at USGS. She studies large, regulated river systems, focusing on stream and reservoir temperature dynamics and modeling, reservoir sedimentation and stratigraphy, and the impact of human management on aquatic habitat. Dr. Stratton Garvin has been with the USGS Oregon Water Science Center since 2017. While at the Oregon Water Science Center, much of her work has focused on understanding temperature dynamics in the Willamette River and its major tributaries, including the ‘thermal template’ of the river and the potential for various management actions to influence temperature. Prior to the USGS, she worked as a consultant primarily focused on environmental characterization and large-scale groundwater contaminant remediation. She holds a master’s degree in hydrogeology from the University of Nevada, Reno and a Ph.D. in Water Resources Science and Geology from Oregon State University. Dr. Stratton Garvin is a registered geologist in the state of Oregon.</p> <p><i>Josh Proudfoot</i>--Since 2001, Josh Proudfoot has led Good Company’s climate and sustainability research and management consulting services as a founder and principal. Most of his work is in service of infrastructure including cities, transportation authorities, ports, utilities, renewable energy and fuels developers, waste systems, as well as the technology, engineering, and construction firms that serve them. As of 2023, Good Company merged with Parametrix. Josh is now the Director of Climate and ESG services. Josh has an MA degree from Antioch University in Seattle, and a BA degree from the Robert D. Clark Honors College at the University of Oregon.</p>
<b>4:00 pm (optional)</b>	<b>DEQ Staff Available for One-on-One Discussions</b> <i>List of DEQ staff available to be determined</i>	<i>Optional informal discussions.</i>
<b>4:00 pm (optional)</b>	<b>Informal Activities</b>	
<b>6:30 pm</b>	<b>No-Host Reception</b>	
<b>7:00 pm</b>	<b>Dinner on Patio</b>	

Friday, July 26, 2019

Time	Topic	Presentation Description; Relevance to Oregon Wastewater Professional Knowledge; Instructor Information
7:30 – 8:30 am	<b>Energy Committee (potentially joint with Utility Management)</b>	Energy Committee and partners will meet for updates on current incentives, regulatory context and challenges related to pursuing energy efficiency and renewable energy projects in the wastewater industry.
8:30-9:15 am	<b>Building a Strong Foundation for Oregon's Clean Water Future</b>  ... Leah Feldon, DEQ Director  <b>Moderator:</b> Amy Pepper	<b>Session Information and Relevance to Wastewater Professional Knowledge:</b> In this presentation, Director Feldon will identify her priorities and approach for leading the department, and her commitment to building upon strong program foundations that have been established in various aspects of the agency’s work. She will also provide an overview of recent developments affecting water quality improvement efforts, including outcomes from the 2023 Legislative session as well as opportunities to work with a new Governor's administration to build a more sustainable water future for our state. She will also discuss the importance of state agency and local government partnerships in furthering wastewater and stormwater management objectives throughout Oregon. This presentation is relevant to wastewater professionals because it is important for them to understand and anticipate DEQ’s priority regulatory initiatives and opportunities to work through water quality challenges in partnership.  <b>Speaker Information:</b> <i>Leah Feldon</i> was appointed the new Director for the Oregon Department of Environmental Quality in February 2023. She was previously the agency’s deputy director and has served in several different positions within the agency since 2005. In her current role, Director Feldon is responsible for agency policy, implementation, budget and operations of DEQ through eleven direct reports: deputy director, central services division administrator, air, land, water and laboratory administrators, regional administrators, enforcement manager and executive assistant; oversee collaboration on multi-interest, complex issues leading to policy development; participation on the Governor’s Office Natural Resources Cabinet; collaboration with EPA’s Region 10 Administrator; support the Environmental Quality Commission in its policy-making role. She holds a JD from Lewis and Clark Law School in Portland and a BA in Sociology from University of Dayton Ohio.
9:15 – 10:00 am	<b>National Issues and Trends for Wastewater and Stormwater Utilities</b>  ...Nathan Gardner-Andrews, NACWA  <b>Moderator:</b> Jerry Linder	<b>Session Information and Relevance to Wastewater Professional Knowledge:</b> The National Association of Clean Water Agencies (NACWA) provides regulatory, legal and legislative advocacy for the clean water sector nationwide. NACWA also supports its membership with resources and peer-to-peer engagement opportunities to help utilities innovate and improve their operations, while maintaining affordability for the communities they serve. This presentation

		<p>will update ACWA members on the current issues and trends at the national level, including recent developments at US EPA, in Congress and in the courts. This presentation is important to wastewater professionals because it is important for them to understand the critical water quality and infrastructure funding discussions and litigation going on at the national level and how they can get involved to have their concerns heard as individually and collectively through ACWA and NACWA.</p> <p><b>Speaker Information:</b>  <i>Nathan Gardner-Andrews</i> serves as the Chief Advocacy &amp; Policy Officer for the National Association of Clean Water Agencies (NACWA) in Washington, DC, where he has worked since 2006. He previously served as the Association’s General Counsel. He is responsible for coordinating and implementing all of NACWA’s advocacy initiatives, including the Association’s legislative, regulatory, legal, and communications advocacy work. He has written articles and spoken nationally on a wide range of clean water issues. Prior to joining NACWA, Mr. Gardner-Andrews served as a law clerk for the Hon. Michael E. Loney of the Maryland Circuit Court. Mr. Gardner-Andrews is a member of the Maryland and District of Columbia bars. He received his BA degree from Columbia University in 2001 and his JD degree from the University of Maryland School of Law in 2005.</p>
<b>10:00 am</b>	<b>B R E A K</b>	
<b>10:20-10:30 am</b>	<b>The Best of the Best—Annual ACWA Awards; ACWA Board recognition</b>	
<b>10:30 am</b>	<p><b>Protecting the Chesapeake through Water Reuse—A Case Study in Regional Collaboration</b></p> <p>...Jay Bernas, Hampton Roads Sanitation District</p> <p><b>Moderator:</b> Scott Mansell</p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b>  Hampton Roads Sanitation District’s (HRSD) Integrated Plan (IP) evolved out of a Sanitary Sewer Overflow (SSO) Consent Decree with the EPA and collaboration with regional stakeholders. At the heart of the District’s IP, is their SWIFT program. SWIFT is an innovative water reuse project designed to further protect the region’s environment, enhance the sustainability of the region’s long-term groundwater supply and help address environmental issues such as the Chesapeake Bay TMDL, recurrent flooding due to sea-level rise and saltwater intrusion into the aquifer. SWIFT takes highly treated water that would otherwise be discharged into the Chesapeake Bay and puts it through additional rounds of advanced water treatment to meet drinking water quality standards. The SWIFT Water is then pumped into the Potomac Aquifer, the primary source of groundwater throughout eastern Virginia. This One Water approach prioritizes the most important water quality projects for our community and saves our region over \$5 billion by providing a dual benefit of complying with two key EPA regulations: SSOs and the Chesapeake Bay TMDL. This session is relevant to wastewater professionals because it is and excellent demonstration of multi-objective, collaborative approaches that can be taken to maximize the environmental, economic, and social benefits of public water quality investments.</p>

		<p><b>Speaker Information:</b>  <i>Jay Bernas</i> currently serves as the General Manager for HRSD, which is the 14<sup>th</sup> largest wastewater utility serving 1.9 million residents in eastern Virginia. Prior to this role, he was the Chief Financial Officer and Chief of Planning and Analysis. Mr. Bernas graduated from Old Dominion University with a BS degree in Civil Engineering and earned his MBA from the College of William and Mary.</p>
11:30 am	<p><b>Why We Work for Clean Water</b></p> <p>...Ed Jahn, Executive Editor, OPB Science &amp; Environment; Executive Producer, Oregon Field Guide</p> <p><b>Moderator: Torrey Lindbo</b></p>	<p><b>Session Information and Relevance to Wastewater Professional Knowledge:</b>  The final presentation of the conference is intended to inspire wastewater and stormwater professionals and remind them, in a visual way, about the cultural, economic, and environmental importance of the work they do to protect and improve Oregon’s rivers and streams. While not a technical presentation, it is intended to be motivational and will touch on the importance of access to clean water and fisheries by the native American tribes in Oregon.</p> <p><b>Speaker Information:</b>  <i>Ed Jahn</i> is the Executive Editor of OPB Science &amp; Environment, and the Executive Producer of Oregon Field Guide. He is a 19-time EMMY winning Executive Producer for Oregon Public Broadcasting and Oregon Field Guide with over 25 years of experience covering science, outdoor and environmental issues for television, radio and online. He is the winner of the prestigious DuPont-Columbia Award for Journalism, the national Edward R. Murrow Award and two Society of Environmental Journalists Awards for Reporting on the Environment, among others. He is a water-lover by nature and has kayaked and paddled many of the region’s rivers over the last two decades.</p>
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