American Water Works Association
Pacific Northwest Section

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February 7, 2023

Ms. Judy Grycko
OESAC CEU Committee
PO Box 577
Canby, OR 97013-0577

Re: OESACID: 5827 – CEU Application Update for Technical Program Content, Pacific Northwest Section – American Water Works Association (PNWS-AWWA) 2023 Annual Conference.

Dear Judy Grycko,

Enclosed for your review, evaluation and CEU credit approval are a few updates to the 2023 PNWS-AWWA Annual Conference, to be held in Kennewick, WA, May 3-5, 2023. These updates are due to speaker cancellations. Only speaker biographical information is updated

The conference will allow water and wastewater professionals the opportunity to enhance their job skills and knowledge. Information and education about topics including engineering, water quality, water resources, water treatment, water distribution, customer service, public information/education, water information technology, water system resilience, regulatory compliance, asset and data management as well as other utility management strategies will be presented during this virtual conference.

Enclosed materials include:

- Updated program schedule
- Updated abstracts only, which also include training goals and speaker information

Attendance at sessions during the conference will be tracked by reading bar codes on each attendee's name tag at the beginning of each session and after each hour of presentations. Registration materials and conference information can be accessed on-line http://www.pnws-awwa.org/conference/ .

On behalf of the Pacific Northwest Section – American Water Works Association, thank you for your time and assistance regarding this request. Should you have any questions, please do not hesitate to contact me at my home office (541) 543-5774 or at jhoyenga@pnws-awwa.org.

Respectfully, Jill Hoyenga
2023 PNWS-AWWA Program Committee Chair
Home office (541) 543-5774

Enclosures

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2023 Annual Conference, Kennewick, WA May 3 – 5

Three Rivers Convention Center 7016 W Grandridge Blvd. Kennewick, WA 99336

Session ID: DistTPM02 **Date:** 5/4/2023 **Length of Session:** 30 Minutes

Area of Relevancy: Drinking Water

Presentation Title: Meter Health Analytics: The Importance of Large Meter Performance to Water Districtsâ€™ Bottom Lines and Communities At Large

Abstract: Large commercial and industrial water meters can represent 40%-60% or more of a utilityâ€™s annual revenue, despite representing less than 10% of the meter fleet. The failure of a single large meter can cost a utility hundreds of thousands of dollars a month in lost revenue.

So how do municipalities ensure their highest revenue-generating meters are registering consumption within AWWA guidelines and manufacturerâ€™s specifications? Recent advancements in low-power microchips, AI-algorithm processing and machine learning are revealing new insights for water departments to ensure large meters are performing optimally.

This session will cover the importance of large meter accuracy, available technologies to ensure accuracy â€“ how they work and detailed pros and cons of each type â€“ and real-world case studies of water districts leveraging technology to manage their largest revenue generators.

CEU Relevance Statement: In this session, operators, engineers, managers and public officials will learn about a new way to rapidly diagnose large meter malfunctions to bring water loss under control. Until now, the industry best practice has been flow testing, either on a flow bench or with portable test meters. However, flow testing can waste significant amounts of water, has to be routinely scheduled, and doesnâ€™t always provide a complete picture of meter health. New technology developments ease the burden of this important task of mentoring large meter performance.

Author: Quinn Jackson-Elliott **Author's Job Title:** RVP - Government Relations

Email: qjackson-elliot@oleaedge.com **Phone:** (678) 381-3042

Organization: Olea Edge Analytics

Primary Job Duties: Build and maintain professional relationships with members of government entities and agencies. Collaborate with industry advocates to build areas of common interest. Introduce legislative and public policy changes that will support company operations. Coordinate and plan the efforts of lobbyists. Plan for known and potential regulatory activities related to the business and industry.

Related Prior Employment: Former Deputy Commissioner and Sr. Director, City of Atlanta - Department of Watershed Management (responsible for customer care, metering, billing, capital and operating budgets)

Registrations or Certifications: Bachelors of Science, Business

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Session ID: DistTPM04 **Date:** 5/4/2023 **Length of Session:** 30 Minutes

Area of Relevancy: Drinking Water

Presentation Title: Elevated Water Storage Tank Assessment and Rehabilitation â€“ Extending the Service Life of our most Visible Infrastructure

Abstract: Elevated water storage tanks are arguably our most visible water infrastructure, showcasing some of the most impressive assets of the waterworks industry. Elevated tanks are also critical elements of a water system, providing better operational reliability than pumped systems, keeping supply close to demand, and maintaining higher system water quality when operated correctly. However, these facilities often stand as relics of previous building codes and bygone operational features requiring modernization in order to remain in service and preserve both the publicâ€™s and operatorsâ€™ safety. This presentation will discuss case studies from four water towers in the Pacific Northwest, covering elevated water storage tank condition assessments, seismic upgrades, appurtenance improvements, and maintenance painting.

CEU Relevance Statement: This presentation will be relevant to water professionals of all kinds. Topics discussed will include asset management, seismic resiliency, and construction safety.

Author: Matt Hickey **Author's Job Title:** Principal Engineer

Email: Matt.Hickey@consoreng.com **Phone: 5032259010**

Organization: CONSOR

Primary Job Duties: Civil Engineering

Related Prior Employment:

Registrations or Certifications: Professional Engineer OR

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2023 Annual Conference, Kennewick, WA May 3 – 5

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Session ID: DivEBF02 **Date:** 5/5/2023 **Length of Session:** 30 Minutes

Area of Relevancy: Drinking Water

Presentation Title: Improving Disability and Language Access

Abstract: Portland Water Bureau will share examples and strategies they are using to increase the accessibility of communications. From improving translation of text to remediating their communications to work better for people who use assistive technologies, you'll hear how one utility is working to learn and implement more accessible communications. Do they have all the answers? Nope, but the team is excited to share progress. Examples will be focused on water quality, water efficiency and emergency communications.

CEU Relevance Statement: This is relevant to anyone communicating about water quality or communicating with the public in any way. It will address our responsibilities under the ADA and Title IV of the Title VI of the Civil Rights Act of 1964. I don't know enough about operator roles to know if it would be relevant for CEUs, but feel free to reach out if you'd like to talk through this.

Author: Sarah Messier **Author's Job Title:** Water Quality Information Program Coordinator

Email: Sarah.Messier@portlandoregon.gov **Phone:** (503) 823-1547

Organization: Portland Water Bureau

Primary Job Duties: • Produce and deliver communication materials to maintain compliance with drinking water rules, including Public Notification Rule, Consumer Confidence Rule, and the Lead and Copper Rule • Manage a grant program for community partners to deliver lead hazard reduction education, outreach, testing and remediation services • Develop, implement, and deliver lead-in-water outreach to community members most at-risk • Produce and deliver the annual Drinking Water Quality Report • Improve language and disability access for Water Quality communication materials • Ensure compliance with the Lead and Copper Rule Revisions and Improvements • Plan and prepare for emergency communication events and establish native language and disability access policies and procedures for these events

Related Prior Employment: • 4 years as an Outreach and web content specialist for the Northwest Association of Networked Ocean Observing Systems at the University of Washington • 2 years as an outreach specialist and graduate researcher at Oregon State University • 2 years as an environmental educator (Save the Bay in RI and YMCA Camp Orkila) • 2 years as an undergraduate research tech in marine and stream ecology labs at University of New Hampshire

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Session ID: EngTPM05 **Date:** 5/4/2023 **Length of Session:** 60 Minutes

Area of Relevancy: Drinking Water

Presentation Title: The Cascade Groundwater Alliance: Groundwater Development Project Program Overview Update and Package 1 Construction

Abstract: Water supply agencies have historically bought wholesale water from a nearby water purveyor. To gain full ownership of their water supply and ensure resiliency, The Cascade Groundwater Alliance (formed in partnership between Rockwood Water PUD and City of Gresham), undertook a $120 million, Groundwater Development Master Planning (GDMP) supply program consisting of nine packages which are slated to be completed by the end of 2026: five wells and wellhouses; four groundwater treatment plants; a 6.0 MG treated water storage tank; rehabilitation of a 4.0 MG treated water storage tank; and miles of water transmission piping. This presentation will showcase the Program and focus on current efforts to design and construct various program packages, including Package 1 Construction which lays the foundation for system-wide resiliency, storage, and supply capacity and will be complete in the Spring of 2024.

CEU Relevance Statement: This presentation will be relevant to water professionals of all kinds. Topics discussed will include groundwater supply and development, water storage and transmission, seismic resiliency and emergency preparedness, and Program development.

Author: Brian Ginter **Author's Job Title:** Principal Engineer

Email: Brian.Ginter@consoreng.com **Phone: 5032259010**

Organization: CONSOR

Primary Job Duties: Civil Engineering

Related Prior Employment:

Registrations or Certifications: Professional Engineer OR

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Session ID: TreatTPM06 **Date:** 5/4/2023 **Length of Session:** 30 Minutes

Area of Relevancy: Drinking Water

Presentation Title: Evaluation of Membrane Technologies and Options for Meeting the Ultimate Capacity Demand at Kennewick WTP

Abstract: This paper presents Kennewick (WA) water treatment plantâ€™s consideration on updating its filtration technology to meet production demand and provide maximum operation flexibility. The plant currently utilizes submersible UF membranes and would like to evaluate other potential options for the future upgrade. A total of 4 options are evaluated in this paper including (1) continue using existing membrane, (2) retrofit current membrane basins with different submersible membranes, (3) retrofit current membrane basins with plate-style ceramic membranes, and (4) use a Phased-in approach to convert current system to a pressurized membrane system to provide operation flexibility. Detail evaluation and potential cost estimations will be presented.

CEU Relevance Statement: This paper provides a framework for O&M managers to assess how to evaluate and integrate newer and better membrane technologies that can achieve more reliable operation, produce reliable and consistent high-quality treated water, and reduce the operation costs. This paper also provide a framework for plant managers to evaluate practical options that can further expand the plantâ€™s production capacity for future demands.

Author: Pierre Kwan **Author's Job Title:** Water Treatment Business Director

Email: pierre.kwan@hdrinc.com **Phone:** 2068264735

Organization: HDR Engineering, Inc.

Primary Job Duties: Technical oversight of all of HDR's drinking water projects around the world

Related Prior Employment: None. 22 years at HDR starting as project engineer and worked my way up

Registrations or Certifications: Professional Engineer - Washington, Oregon, New Mexico, British Columbia

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Session ID: WQTPM04 **Date:** 5/4/2023 **Length of Session:** 30 minutes, as part of a 6-presentation session â€œEmerging Issues with Manganeseâ€

Area of Relevancy: Drinking Water

Presentation Title: Legacy Manganese Issues in Distribution Systems

Abstract: The adverse impact of manganese (Mn) on drinking water quality is receiving renewed attention by regulators and utilities based on recent research. This presentation is to be #4 in a series of 6 presentations on Emerging Issues with Manganese. It will focus on issues and water quality challenges posed by legacy Mn accumulation in distribution systems. This proposed session is a product of an initiative of AWWAâ€™s national Mn Subcommittee and was solicited by the PNWS Water Quality committee.

CEU Relevance Statement: After attending the session conference participants should:

- â€¢ Appreciate the growing body of health effects literature documenting Mn effects on children
- â€¢ Be aware of efforts tightening the regulation of Mn
- â€¢ Recognize Mnâ€™s widespread occurrence
- â€¢ Become familiar with effective methods for treating Mn
- â€¢ Understand the adverse consequences of legacy Mn and its influence on water quality at the tap
- â€¢ Understand operational and maintenance practices to mitigate legacy Mn

Author: Michael Hallett **Author's Job Title:** COO/Field Scientist

Email: michael@confluence-engineering.com **Phone:** (206) 579-8528

Organization: Confluence Engineering Group

Primary Job Duties: Michael manages the day-to-day business operations of the company, as well as acting as project administrator for all field related work.

Related Prior Employment: Prior to co-founding Confluence, Michael spent 20 years working in a wide variety of positions within the field of physical sciences with experience in the collection and analysis of air, water, and soil samples. His experience includes working for his own business, Three Rivers Contracting Services, as well as a number of public and private agencies including the US Forest Service, US Fish & Game, US Geological Survey, Alaska Fish & Game, and the Institute for Ecosystem Studies-Hubbard Brook. Michael has managed field crews, analytical laboratories, and project coordination throughout the lower 48 states, Canada, and Alaska.

Registrations or Certifications: BS, English Literature, University of New Hampshire, 1986
Coursework in statistics, microbiology, inorganic and organic chemistry - University of Washington