2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Real World Considerations for Pump design, operation and troubleshooting

Summary of Lesson Content: We will discuss various aspects of pump design which can be used by consulting engineers as well as plant staff. Topics include piping and supports, gauges, switches, suction lift, TDH, NPSH, cavitation and when to use centrifugal versus positive displacement pumps. We will also discuss pump operation and maintenance. Pump troubleshooting will also be covered including tools the plant should have as well as common causes and remedies of pump issues. This information comes from lessons learned during 32 years of work in the water and wastewater industry.

CEU Relevancy: We will discuss various aspects of pump design which can be used by consulting engineers as well as plant staff. Topics include piping and supports, gauges, switches, suction lift, TDH, NPSH, cavitation and when to use centrifugal versus positive displacement pumps. We will also discuss pump operation and maintenance. Pump troubleshooting will also be covered including tools the plant should have as well as common causes and remedies of pump issues. This information comes from lessons learned during 32 years of work in the water and wastewater industry

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Steve Truitt **Job Title:** Regional Manager

Employer: Penn Valley Pump Company **Phone #:** 8473408917

Education: BS Civil Engineering

Professional Background: I am a registered professional engineer, BS in Civil Engineering form University of Illinois and 32 years of experience in the water and wastewater equipment industry.

Primary Knowledge/Skills/Abilities Related to Presentation: I have been in the water and wastewater process and pumping equipment industry for 32 years.

Professional Organizations/Activities: Member of WEF, AWWA

Related Papers/Instruction Given: I have given similar talk at about 30 state and regional shows over the past decade. Too many to list.

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Complying with the Lead and Copper Rule Revisions

Summary of Lesson Content: The Lead and Copper Rule Revisions is the largest drinking water rule-making activity in the past two decades and affects every single drinking water utility. This presentation provides an overview of the rule and what utilities have to do complete to comply with these changes.

CEU Relevancy: The Revisions affects water quality operations by revising downwards the allowable lead exposure and puts a very heavy emphasis of finding and removing any hazardous lead throughout the water system. In addition, utility staff need to identify the materials of each public and private service line to reaffirm to the public that lead is being removed. Finally, utility staff need to help customers that discover lead in the their plumbing to remove it. This presentation touches upon all of these topics and outlines what operators have to do to achieve compliance.

Target Audience: Drinking Water Operators ONLY

Presenter: Pierre Kwan
Job Title: Water Treatment Technical Dir
Email: pierre.kwan@hdrinc.com

Employer: HDR
Phone #: 2063077362

Education: Bachelors of Science in Civil Engineering, Ohio State University and Masters of Science in Civil Engineering from University of Washington

Professional Background: 23 years of professional engineering planning, design, construction, and operations of drinking water treatment plants throughout the United States and overseas

Primary Knowledge/Skills/Abilities Related to Presentation: 15+ years in the field of drinking water corrosion control and Lead and Copper Rule compliance

Professional Organizations/Activities: AWWA - former PNWS water treatment committee chair, former PNWS budget chair, former national Water Treatment Operations committee chair

Related Papers/Instruction Given: Lead Service Line Inventory, 12/15/22, Assoc. of State Drinking Water Agencies Monthly Forum

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Communicating with Engineers

Summary of Lesson Content: Same content as my presentation in 2022, so last year's summary is still valid. The presentation is designed to help operators become advocates for their own water and wastewater utilities by learning how to connect with their engineering consultants.

CEU Relevancy: The relevancy is the same as it was for this presentation in 2022: Operators will add significant value to their utility by understanding how to communicate with engineering consultants. Understanding and implementing good communication skills will allow utilities to have a more effective and efficient partnership with one another for the purpose of getting a better finished project for their utility.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Michael Grimm
Email: mgrimm@wswd.org
Phone #: 5037290544

Job Title: General Manager
Employer: West Slope Water District

Education: B.S. Civil Engineering - Oregon State University

Professional Background: General Manager for West Slope Water District since May 2015. Private engineering consultant from 2009-2015. Senior Water Engineering for drinking water utility from 2004-2009. Regional Manager and Water Quality Engineer for regulatory agency from 1986-2004.

Primary Knowledge/Skills/Abilities Related to Presentation: Engineering, utility management, strategic planning, asset management

Professional Organizations/Activities: AWWA Individual member since 1986. Active at Association, Section, and Sub-section level

Related Papers/Instruction Given: Same presentation for this school in 2022

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: What's Happening with PFAS?

Summary of Lesson Content: A quick internet search for “PFAS” will yield over 140 million results, but it is likely you first heard the term within the past few years. They have been labeled “forever chemicals”, the plot of a Hollywood movie, and subject of multi-million dollar lawsuits. There are almost 5,000 different PFAS that have been developed over the past 90 years ago and they are part of our everyday lives – likely even in your bloodstream. The purpose of this presentation is to provide a brief overview about PFAS, review current status of regulations and treatment, and provide some example case studies from pilot and full scale treatment systems designed to remove PFAS.

CEU Relevancy: This presentation will help inform operators with background information about PFAS, how to treat PFAS, current status of regulations, and how to communicate with customers about the main issues around PFAS.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Andrew Nishihara
Job Title: Civil Engineer
Employer: Stantec
Email: andrew.nishihara@stantec.com
Phone #: 208-573-0849

Education: Oregon State University, BS - Bioengineering

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: I serve as a process mechanical engineer who has worked on over 10 projects involving PFAS planning, treatment design, and/or financing.

Professional Organizations/Activities: AWWA

Related Papers/Instruction Given: What’s happening with PFAS? Cascade to Coast Short School, March 16, 2022

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Wastewater Operator Certification Basics

Summary of Lesson Content: Content will cover how to get and stay certified, reciprocity, and opportunity for program feedback/questions.

CEU Relevancy: Operators need to know how to get certified before they're required to attain the CEUs to maintain their certification :)

Target Audience: Wastewater Operators ONLY

Presenter: Kimi Grzyb

Job Title: Wastewater Operator Certification Coordinator **Email:** kimi.grzyb@deq.oregon.gov

Employer: DEQ **Phone #:** 5032295349

Education: PhD Environmental Sciences

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: Coordinate the statewide certification program for DEQ

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Non-Revenue Water

Summary of Lesson Content: Today's water utilities are dealing with a combination of aging infrastructure and workforce alongside growing populations and drought. Luckily, there are new innovations that are helping offset these issues. We will begin the presentation by defining some of the terms in the water industry today, such as non-revenue water, transients, background leakage, district metering areas, and asset management. We will then introduce the M36 Manual from AWWA and dive into tactics for reducing annual real losses in a distribution system.

CEU Relevancy: In this presentation we will focus on reducing leakage. We will review current best practices for repairing leaks that are reported along with innovations in the repair industry. The next section will focus on pressure zones and creating district metered areas. Hydraulic control valve operation and maintenance will be highlighted in this section, along with techniques for using pressure to reduce economic real losses. The next section will be on active leakage control. We will look at current methods available for locating un-reported existing leaks in a distribution system using non-acoustic methods. We will then look at acoustic methods and compare tactical field equipment versus fixed systems. The last section will be on creating and updating pipeline replacement programs. We will review different pipe condition assessment methods that are available today. We will conclude with the asset management inverted pyramid approach to long-term planning.

Target Audience: Drinking Water Operators ONLY

Presenter: Mike Uthe
Job Title: Northwest Technology Manager **Email:** muthe@muellerwp.com
Employer: Mueller Water Products **Phone #:** 406-223-2192
Education: Master's in Mechanical Engineering. Bachelor's in Petroleum Engineering.

Professional Background: I currently cover MT, AK, WA, OR, ID, UT, WY, and CO as a technical resource for utilities and engineers with Mueller. Prior to this I worked for Advanced Pump and Equipment as a sales engineer. Before this I worked for ONEOK and Chevron on refineries and oil rigs around the country.

Primary Knowledge/Skills/Abilities Related to Presentation: I have worked in the industry for a decade. First at a rep firm and now for a manufacturer. I have an engineering degree along with many hours of field and design experience.

Professional Organizations/Activities: AWWA

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Strategies for Managing Aging Infrastructure

Summary of Lesson Content: This presentation looks at the challenges faced by communities, municipalities, cities and states as they attempt to address the complexities of managing the aging infrastructure of their water and waste water systems. We look at real world examples and attempt to provide pragmatic strategies and solutions.

CEU Relevancy: This presentation looks at the challenges faced by communities, municipalities, cities and states as they attempt to address the complexities of managing the aging infrastructure of their water and waste water systems. We look at real world examples and attempt to provide pragmatic strategies and solutions. Attendees will be able to apply what we discuss in this class as they evaluate their systems and develop master plans and strategies for operating their systems in a sustainable manner.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Leo Newberg
Job Title: Facilities Manager
Employer: Inn at Otter Crest
Email: Newberg.l.g@gmail.com
Phone #: 541-351-1403

Education: University of Maryland - AA Computer Science

Professional Background: 25 years running high end custom boatbuilding operations, 15 years licensed CCB general contractor , 7 years Facilities Manager, 6 years Board Member of Johnson Creek Water System, 3 years Board Member Beverly Beach Water District

Primary Knowledge/Skills/Abilities Related to Presentation: Managing aging infrastructure, team building and management, technology tools such as GIS and CMMS, Construction management, and Project Management

Professional Organizations/Activities:

Related Papers/Instruction Given: Managing Aging Infrastructure - OAWU Conferences - SunRiver 2019-2022, Seaside 2021, 2022

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Reduce Operating Costs with Energy Efficiency

Summary of Lesson Content: This presentation includes a general overview of energy consumption in both water and waste water facilities. We identify multiple common efficiency upgrades and provide real world examples to support them. Details are also provided on what incentives are available through the Energy Trust of Oregon.

CEU Relevancy: This presentation will help operators to better understand where energy is consumed in their facilities, identify more efficient ways to operate and/or upgrade existing equipment, as well as best practices for any additional energy centers. In addition to providing information on how to efficiently operate equipment, we instruct the audience on how a project becomes eligible for Energy Trust incentives and what the process for receiving those incentives entails.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Nick Ridling

Job Title: Account Manager **Email:** nridling@energy350.com

Employer: Energy Trust of Oregon **Phone #:** 5412860300

Education: B.S. Energy Systems Engineering from Oregon State University

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: Energy Management, Process Efficiency, Project Development, Energy Analysis, Incentive and Rebate Program Delivery

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Using Mobile GIS to Streamline Field Data Collection

Summary of Lesson Content: Recent advances in GIS technology make it easy to collect and update data, track field data collection activities, and coordinate field operations. This presentation will show how the City of Dayton, WA used a combination of web and mobile solutions to collect and store the city's hydrant flow test data and present the resulting information to city council.

CEU Relevancy: Esri's solutions allow facility and asset managers, executives, and operations professionals to collect data, track their assets and performance, maintain historical records, and sustain an accurate inventory. GIS provides invaluable real-time information to improve the way architecture, engineering, and construction (AEC) professionals run facilities, deliver preventive maintenance, monitor sites, and track natural environment improvement projects. Proper asset life cycle management ensures that a project fulfills its mission throughout its expected life-span.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Rusty Merritt
Job Title: GIS Department Manager **Email:** rmerritt@andersonperry.com
Employer: Anderson Perry and Associates **Phone #:** 5418157920
Education: University of Maine - B.S. in Natural Resources

Professional Background: Rusty is the GIS Department Manager at AP's where he leads the effort to advance AP's GIS capabilities and service offerings to its' clients. Prior to joining AP, Rusty owned and managed a GIS consulting firm, where for more than 18 years, he operated as an Esri Business Partner delivering web and mobile GIS solutions to agricultual water managers and small municipalities throughout the Pacific Northwest. Rusty joined AP in 2016, and since then, has configured and deployed web and mobile GIS capabilities to more than 30 AP clients. Rusty has more than 28 years experience in field of GIS.

Primary Knowledge/Skills/Abilities Related to Presentation: GIS

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Confidence with Control Valves

Summary of Lesson Content: This class will include the following: basic hydraulics, valve function, pilot system function, valve components, pressure reducing and relief valves, troubleshooting of common valves. With this foundational knowledge operators will be able to set, troubleshoot, and maintain their system more effectively. This class serves as a prerequisite of sorts for more in-depth control valve education and is designed for those new to the industry, new to control valves themselves, or those who would like a review on the topic.

CEU Relevancy: Hydraulic control valves and maintenance are a vital aspect of a functioning water system. Proper understanding and maintenance practices will aid to ensure proper valve performance and prevent valve failure which affects system reliability, community safety, resource (water) protection, and resource conservation. Hydraulic control valves remain a mystery to a majority of operators. This class is designed to build a fundamental familiarity with valve function and piloting systems. When maintenance or troubleshooting is needed, operators are able to approach the valves in an educated fashion and apply remote instruction/support if required.

Target Audience: Drinking Water Operators ONLY

Presenter: Steve Causseaux
Job Title: Water Management Consultant
Employer: Cimco-GC Systems
Email: steve@cimco-gcsystems.com
Phone #: 2535345667

Education: High Schoo, Bachelar of Arts

Professional Background: 20 years in water management including environmental stormwater compliance, pipe locating, control valve design, maintenance, and troubleshooting, specialty valve design and selection.

Primary Knowledge/Skills/Abilities Related to Presentation: 14 years control and specialty valve experience including theory, application design, and physical maintenance and troubleshooting.

Professional Organizations/Activities: AWWA, OAWU

Related Papers/Instruction Given: "Control Valve Basics", Oct. 2022, OAWU Fall Conference; "If Check Valves Were Cars: Style, Function, and Performance", Oct. 2022, OAWU Fall Conference; "Advanced Control Valve Applications", Aug. 2022, OAWU Seaside

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Checking in on Check Valves

Summary of Lesson Content: Check valves perform a basic function: They open during forward flow and close to prevent reverse flow. Cars perform a basic function: They get you from "A" to "B". Check valves, like cars, come in a variety of styles and perform differently in different situations. Your check valve choice is critical for efficient system performance and to prevent accidents/slam. In this course we discuss available options to get you the best check valve for your applications.

CEU Relevancy: A check valve's function seems simple: It opens during forward flow and closes quickly (or slowly) in instances of pressure reversal or flow reversal to prevent reverse flow. Like cars, style, performance, and therefore selection of check valves is critical to prevent system damage and subsequent failure due to slamming. Excessive head loss through check valves will also reduce water/wastewater districts' efficiency. Check valves continue to develop to improve system performance and prevent damage.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Steve Causseaux
Job Title: Water Management Consultant
Employer: Cimco-GC Systems
Email: Steve@cimcopnw.com
Phone #: 253.534.5667

Education: High School, Bachelor of Arts

Professional Background: Steve has spent the past 15 years working in water management for waterworks and construction projects. As an environmental consultant in the AZ deserts, he worked with major home builders to control sediment and erosion. As a consultant for 13 years with Cimco-GC Systems, a local waterworks rep and service firm, Steve helps water districts and engineers design and manage their systems.

Primary Knowledge/Skills/Abilities Related to Presentation: Steve works closely along side water and wastewater district operators, engineers, and independent engineering firms to select valves and specific valve functions for the wide range of applications. Since engineers and operators are often involved with a

Professional Organizations/Activities: AWWA, OAWU

Related Papers/Instruction Given: "Checking in on Check Valves"

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Hands On- Fire Hydrants, Valve Selection

Summary of Lesson Content: Fire hydrant maintenance, Gate valve selection for different uses.

CEU Relevancy: All water systems have fire hydrants and gate valves.

Target Audience: Drinking Water Operators ONLY

Presenter: Brian Anderson

Job Title: Territory Manager **Email:** banderson@american-usa.com

Employer: American Flow Control **Phone #:** 15037840835

Education: High School, Some College- Water Quality

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: 48 years in the water industry

Professional Organizations/Activities: AWWA Life Member

Related Papers/Instruction Given: Fire Hydrants, Valves 1991- 2022, OAWU, AWWA

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Intelligent Pumping and Case Stories

Summary of Lesson Content: Intelligent pumping systems have been available for 10+ years now yet few people understand how they work or how to take advantage of all of the benefits related to them. This presentation will look at the how's and whys of intelligent waste water pumping and then some real world applications here in Oregon

CEU Relevancy: Operators will gain an understanding of the latest proven methods to reduce operational costs by utilizing intelligent station controls and pumps. This will also have an impact on energy costs as well as operational field time. It will also help the operators with their understanding of pump and control selections for upcoming projects in order to have an opinion on what is required to optimize their collection system.

Target Audience: Wastewater Operators ONLY

Presenter: Simon Cartwright

Job Title: Municipal Projects - Representative **Email:** simon.cartwright@xylem.com

Employer: Xylem - Flygt Pumps **Phone #:** 5039130119

Education: RAN technical college Narimba - Electrical fitter mechanic tradesman

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: I have been assisting engineers and end users with pump station design as a Flygt representative for almost 25 years as well as small scale treatment plants in 5 countries averaging 50 designs a year

Professional Organizations/Activities:

Related Papers/Instruction Given: Similar presentations 3-4 times a year OAWU, APWA, PNCWA conferences last 10 years

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Utilizing Acoustic Inspection to Prioritize Sewer Cleaning

Summary of Lesson Content: Reducing sanitary sewer overflows (SSOs) is an important function of maintenance programs - but effectively deploying daily resources to efficiently achieve that objective remains a tricky challenge for wastewater collection system managers. Rather than setting a time-based maintenance schedule, the Sewer Line Rapid Assessment Tool (SL-RAT®) allows utilities to rapidly asses the condition of each pipe and set a condition-based schedule that prioritizes the 30% of pipe segments that require attention. The use of this smart water technology as a preliminary screening tool for cleaning and CCTV operations can achieve substantial cost savings while significantly reducing the risk of SSOs.

CEU Relevancy: This presentation will discuss how the SL-RAT® and acoustic inspection has been an effective solution for over 1200 communities across the world. Attendees will gain a comprehensive understanding of this technology through a presentation that includes economic analysis, implementation requirements, and productivity results. The content will be focused on discussing the practical applications of the SL-RAT® and will summarize our published ASTM Standard developed for acoustic pipe inspection.

Target Audience: Wastewater Operators ONLY

Presenter: Gene Hallum

Job Title: Northwest Territory Sales Manager **Email:** cmendell@infosense.com

Employer: InfoSense, Inc. **Phone #:** 980-223-3983 ext 7

Education: Business Administration at the University of Washington

Professional Background: https://www.linkedin.com/in/gene-hallum-14b3a882/

Primary Knowledge/Skills/Abilities Related to Presentation: Past 3 years as NW Regional Manager at Infosense, Inc. and over 50 years in the field of computer related technology.

Professional Organizations/Activities: PNCWA, Washington WW Collection Assn.

Related Papers/Instruction Given: Utilizing Acoustic Inspection to Prioritize Sewer Cleaning (Presented at Umpqua Community College, Seaside Conference 8/21, Roseburg WW Oper)

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Energy Savings Performance Contracting for Infrastructure Improvements

Summary of Lesson Content: Deferred maintenance, open-bid contracting let downs, and being short-staffed are all concerns we hear at Ameresco from our municipal clients. I want to present another method of contracting available to both water treatment and wastewater treatment facilities meant to protect public funds and provide the needed equipment upgrades at facilities: Energy Savings Performance Contracting. This form of contracting has been around for decades and used heavily in the education and municipal space; it can and has been applied locally to our PNW WWTPs with great success to obtain needed equipment utilizing the resources of an Energy Services Company (ESCO) all under a performance guarantee.

CEU Relevancy: The goal of this presentation is to illustrate a tool available for municipalities to improve existing infrastructure with both financial and technical performance guarantees. We will discuss in what applications Energy Savings Performance Contracting can be utilized to help obtain needed equipment or improve existing infrastructure with the end goal of assisting operation & maintenance of the plant.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Kathleen Kelleher

Job Title: Account Executive

Email: kkelleher@ameresco.com

Employer: Ameresco

Phone #: 7753853472

Education:

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: Financial Tools for Infrastructure Improvements

Professional Organizations/Activities: OR ACWA, PNCWA, WCMA, NWAAAE

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Safety and Health Concepts in the Wastewater Industry

Summary of Lesson Content: An overview of safety and health topics along with managerial concepts for a systems approach to occupational safety and health.

CEU Relevancy: This is relevant to this industry due to the regulatory requirements to provide a safe and healthful workplace. This training covers specific standards which apply to the wastewater industry.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Randall Westmoreland

Job Title: Industrial Hygienist **Email:** randall.s.westmoreland@dcbs.oregon.gov

Employer: Oregon OSHA Consultation **Phone #:** 9717011426

Education: Masters Degree of Science in Occupational Safety and Health Management; graduating 2024 Doctorate of Business Admin

Professional Background: will email

Primary Knowledge/Skills/Abilities Related to Presentation: Safety and Health Management; Industrial Hygiene

Professional Organizations/Activities: ASSP; Beaverton Community Band

Related Papers/Instruction Given: Courses presented on most of the OSHA sub-parts

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: NPDES and WPCF Permit Planning Document Requirements

Summary of Lesson Content: The presentation will provide an overview of various planning documents often required in WPCF and NPDES Permits such as Recycled Water Use Plans, Biosolids Management Plans, Hauled Waste Plans, etc. and discuss the overlap between these planning documents and Permits. Common annual reporting requirements and documents will be reviewed and some of the calculations that go into filling out the annual DEQ required forms.

CEU Relevancy: The presentation will be relevant to wastewater system operators by helping maintain Permit compliance.

Target Audience: Wastewater Operators ONLY

Presenter: Mike Lees

Job Title: Project Manager

Email: mlees@andersonperry.com

Employer: Anderson Perry & Associates, Inc.

Phone #: 5416059704

Education: BS Civil Engineering

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: Wastewater engineer for municipalities and DEQ liaison

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Membrane Technology

Summary of Lesson Content: This course will cover the basics of Membrane Bioreactor (MBR) process including how to design, operate and troubleshoot. With treated effluent quality regulations becoming tighter, the MBR technology is a viable option. The operators can learn what it is like to have a MBR plant and how to operate by going through a couple of case studies.

A hands-on testing to evaluate the membrane performance will also be introduced.

CEU Relevancy: Learning how to operate and troubleshoot the membrane system is an important process to keep the plant effluent quality in high standard. Although we are introducing about the membrane process, our troubleshooting method can be applied to any other technology as well.

Target Audience: Wastewater Operators ONLY

Presenter: Hiro Kuge

Job Title: Technology Manager **Email:** hiroo.kuge@kubota.com

Employer: KUBOTA Membrane USA **Phone #:** 4259193308

Education: Osaka University, MS, Environmental Engineering

Professional Background: 19 years in water and wastewater industry, designing, commissioning, operating, and troubleshooting membrane plants

Primary Knowledge/Skills/Abilities Related to Presentation: Membrane design, operation, application, and troubleshooting

Professional Organizations/Activities:

Related Papers/Instruction Given: OAWU:11/2/2022, Design, Operation, and Troubleshooting of Membrane Bioreactor (MBR) System

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Math Review 1 & 2

Summary of Lesson Content: The presentation will include a review of basic math concepts, units, and useful math equations. This will include length, area, volume, velocity, flow, and concentration calculations. Unit conversions will be reviewed, and a number of practice problems will be completed.

CEU Relevancy: To properly operate a water or wastewater treatment plant and to pass the examination for a water/wastewater operator's license, it is necessary to know how to perform mathematical calculations. The math review will help operators calculate volumes and concentrations, perform unit conversions, and many other many other daily math-related tasks.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Jadon Herron

Job Title: Project Engineer **Email:** jherron@andersonperry.com

Employer: Anderson Perry & Associates, Inc. **Phone #:** 5418059328

Education: Oregon State University, Bachelor of Science - Civil Engineering

Professional Background: I have been a civil engineer with Anderson Perry & Associates, Inc. for 10 years.

Primary Knowledge/Skills/Abilities Related to Presentation: Winner of the 2011 Consortium for Mathematics and Its Application (COMAP) international modeling contest while attend college at Eastern Oregon University. I also use the operator math concepts I will be presenting on a daily basis while completing my ci

Professional Organizations/Activities:

Related Papers/Instruction Given: Wastewater Disinfection, April 2018, Eastern Oregon Operators Conference. Operator Math I, II, III, IV, April 2020, Eastern Oregon Operators Conference. Operator Math I, II, III, IV, April 2022, Eastern Oregon Operators Conference

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Math Review 3 & 4

Summary of Lesson Content: The presentation will include a review of math concepts, units, and useful math equations. This will include length, area, volume, velocity, flow, and concentration calculations. Unit conversions will be reviewed, and a number of practice problems will be completed.

CEU Relevancy: To properly operate a water or wastewater treatment plant and to pass the examination for a water/wastewater operator's license, it is necessary to know how to perform mathematical calculations. The math review will help operators calculate volumes and concentrations, perform unit conversions, and many other many other daily math-related tasks.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Jadon Herron

Job Title: Project Engineer **Email:** jherron@andersonperry.com

Employer: Anderson Perry & Associates, Inc. **Phone #:** 5418059328

Education: Oregon State University, Bachelor of Science - Civil Engineering

Professional Background: I have been a civil engineer with Anderson Perry & Associates, Inc. for 10 years.

Primary Knowledge/Skills/Abilities Related to Presentation: Winner of the 2011 Consortium for Mathematics and Its Application (COMAP) international modeling contest while attend college at Eastern Oregon University. I also use the operator math concepts I will be presenting on a daily basis while completing my civ

Professional Organizations/Activities:

Related Papers/Instruction Given: Wastewater Disinfection, April 2018, Eastern Oregon Operators Conference. Operator Math I, II, III, IV, April 2020, Eastern Oregon Operators Conference. Operator Math I, II, III, IV, April 2022, Eastern Oregon Operators Conference

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Build America, Buy America (BABA) Act Legislation and Requirements

Summary of Lesson Content: The presentation will cover the legislation, implementation, and overall requirements of the Build America, Buy America (BABA) Act. An overview of domestic material preference history will be given along with a discussion on what particular materials are subject to the BABA requirements. Possible BABA Act product/program waivers will be discussed. The presentation will conclude with suggested approaches to managing projects with BABA requirements.

CEU Relevancy: Any activity related to the construction, alteration, maintenance, or repair of infrastructure using federal funds will be subject to the BABA requirements. The BABA requirements could impact maintenance costs and operating budgets, both of which need to be considered by operators. Overall, the presentation will give operators knowledge on what material types are subject to the BABA requirements and how they should expect the requirements to impact system improvements in the future.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Dane Maben

Job Title: Engineering Technician **Email:** dmaben@andersonperry.com

Employer: Anderson Perry & Associates, Inc. **Phone #:** (541) 805-0601

Education: Bachelor's Degree in Civil Engineering and Forest Engineering

Professional Background: 3 years as a civil engineering technician for Anderson Perry & Associates, Inc.

Primary Knowledge/Skills/Abilities Related to Presentation: Regulatory requirements related to federally funded infrastructure projects

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: High BOD Food and Beverage Wastewater - Characterization and Treatment Processes

Summary of Lesson Content: High BOD wastewater contributions from food and vegetable porcessing, soft drink production and bottling, alcoholic beverage manufacture, dairy operations for milk, cheese and ice cream, are all often highly impactive sources of load on a municipal wastewater treatment plant. However, even though there may be a basic understanding of how some of these operations can generate high loads, there is often a dearth of specific knowledge when it come to understanding the loads, sources, and the impacts. With this presentation, I intend to do a quick review of wastewater treatment and constituents, then will present examples of high strength contributions to a wastewater stream from a number of different types of facilities. Lastly, I will introduce some of the processes used for treating/removing particular constituents.

CEU Relevancy: As part of the Clean Water Act, the development of industrial pretreatment programs are intended to assist municipalities in managing high strength contributors to their systems. Though there is often some basic knowledge of the impacts these high strength contributions can have on a municipal treatment system, lack of specific details can hinder the ability of a municipality to protect the processes and equipment in their systems. Often, there is simply an underestimation of the magnitude that some of these contributions can have. I intend to fill in some of the gaps in knowledge so that municipal treatment operators can more effectively interface with their industrial pretreatment colleagues, or if that department does not exist, they will be armed with better information for protecting their system.

Target Audience: Wastewater Operators ONLY

Presenter: Robert Smith **Employer:** Pumptech, LLC

Job Title: Engineered Sales, Industrial and Municipal **Email:** rsmith@pumptechnw.com

Phone #: 5037307187 **Education:** BSME Mechanical Engineering

Professional Background: Over 22 years in wastewater treatment industry, 6 years in food and beverage wastewater treatment

Primary Knowledge/Skills/Abilities Related to Presentation: Wastewater treatment equipment and processes, decentralized wastewater treatment, equipment and processes, Food and Beverage wastewater treatment, equipment and processes.

Professional Organizations/Activities: PNWPW (presented this training), also WEF, PNCWA

Related Papers/Instruction Given: NPSH and Cavitation, December 8, 2022, City of Salem WWTP staff

Course Sponsor: Eastern Oregon AWWA/PNCWA

Presenter: Robert Smith

Employer: Pumptech, LLC

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: PFAS & PFOS, What is it and How is it Treated?

Summary of Lesson Content: PFAS & PFOS, What is it and How is it Treated?

CEU Relevancy: PFAS & PFOS are contaminants found in water and wastewater streams and have recently risen to urgent levels due to the health hazards to humans and the environment. Effectively treating and removing these contaminants is challenging and can be expensive. This presentation is designed to educate all those involved in water and wastewater treatment the current state of the treatment technology as well as a few technologies currently in development.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Jim Joyce

Job Title: Process Engineer

Email: jjoyce@pumptechnw.com

Employer: PumpTech, LLC.

Phone #: 4257856680

Education: BS Mechanical Engineering

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: 35 years of experience in the treatment and conveyance of water and wastewater.

Professional Organizations/Activities: Active with AWWA, WEF, ERWOW, EOR, IRWA and many others

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Pumping System Troubleshooting

Summary of Lesson Content: This will be a quick “need to know” course in the most common pumping and electrical system issues that could leave you out of water.

Participants will learn:

- Electric motor troubleshooting and common issues
- How to calculate TDH in a fluid pumping system
- How to calculate friction loss
- How to read pump curves
- Centrifugal pump troubleshooting techniques

The recommended audience includes system operators, technicians and managers.

CEU Relevancy: Virtually every drinking and wastewater system has pumps and motors moving liquids from one place to another. It is critical to understand how to quickly assess and troubleshoot these systems in order to ensure these critical systems keep functioning and protect public health.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Jason Carman

Job Title: Rural Development Specialist **Email:** jcarman@rcac.org

Employer: Rural Community Assistance Corporation **Phone #:** 4582213473

Education: AAS Computer Networking Technology

Professional Background: Jason Carman joined RCAC in 2019. He has more than 20 years of experience with water, wastewater, and industrial infrastructure operations, maintenance/repair and capital improvement. He provides technical and managerial assistance and training for rural water and wastewater systems and fosters positive working relationships with various state and federal partners dedicated to rural community advocacy.

Primary Knowledge/Skills/Abilities Related to Presentation: Drinking water distribution operations, troubleshooting, and maintenance. Pumps, motors, and control systems technician.

Professional Organizations/Activities: AWWA, RCAP

Related Papers/Instruction Given: 3rd year presenting at the EOOC

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Driven to Distraction

Summary of Lesson Content: Motor vehicle crashes are the leading cause of work-related fatalities year after year. During this course, attendees will learn what distracted driving is and the rules surrounding distracted driving. They will gain an understanding of the causes of crashes and the results of distracted driving. Additionally, they will learn defensive driving behaviors when encountered with the most frequent forms of claims arising from distractions on the road.

CEU Relevancy: Driving is an accessory skill required of Water and Wastewater staff. This presentation will help employees with defensive driving techniques to help stay safe on the job. This presentation has already been approved for .1 CEU credits for DWP, WW, O2-I, and 02-SP.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Lisa Masters

Job Title: Senior Risk Management Consultant **Email:** lmasters@cisoregon.org

Employer: CIS (Citycounty Insurance Services) **Phone #:** 541-621-0468

Education: Bachelor of Science degree in Business Management (Oregon State University)

Professional Background: 18 years working as a Senior Risk Management Consultant for CIS (Citycounty Insurance Services), Safety Manager for Southern Oregon Head Start, Risk Manager for Jackson County, Loss Control Consultant for ESD 112, and Underwriting/Service Center Representative for SAIF Corporation.

Primary Knowledge/Skills/Abilities Related to Presentation: CIS trainer on the topic for 19 years

Professional Organizations/Activities: Oregon PRIMA, National PRIMA

Related Papers/Instruction Given: CIS trainer on the topic for 19 years, prior GOSH Conference presenter, Authored Many CIS Publication Articles over 18 years

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Personal Protective Equipment

Summary of Lesson Content: This training covers the Oregon OSHA rules and requirements, occupational injury statistics, how to conduct a PPE hazard assessment, employer/employee responsibilities, differences between various types of PPE based on the existing workplace hazard, and PPE informational and training resources.

CEU Relevancy: This presentation will help water and wastewater employees with the various types of personal protection equipment utilized for various workplace hazards. This presentation has already been approved for .1 CEU credits for DW, WW, O2-I, and O2-SP.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Lisa Masters

Job Title: Senior Risk Management Consultant **Email:** lmasters@cisoregon.org

Employer: CIS (Citycounty Insurance Services) **Phone #:** 541-621-0468

Education: Bachelors of Science in Business Management (Oregon State University)

Professional Background: 18 years as a Senior Risk Management Consultant at CIS, prior Safety Manager at Southern Oregon Head Start, Jackson County Risk Manager, Loss Control Consultant for ESD 112, and Underwriting/Service Center Rep for SAIF Corporation.

Primary Knowledge/Skills/Abilities Related to Presentation: 28 years working in the insurance and workers' compensation industries, 18 years of risk management experience with all lines of coverage at CIS

Professional Organizations/Activities: National PRIMA and Oregon PRIMA

Related Papers/Instruction Given: 18 years of training at CIS on this topic, authored many CIS publication articles over that time period, GOSH presenter

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Understanding Control Systems Integration and SCADA

Summary of Lesson Content: This training will cover water, wastewater, and collection control systems integration and focus on the preferred and unsatisfactory conditions operators may observe. A drill-down follows an overview of a control system to significant components and interconnections. The discussion will focus on a preventative maintenance framework to detect issues, prevent mishaps, and

discover opportunities for improved operational effectiveness and efficiencies. The second part of the lesson explores detecting system and component changes, preventing mishaps and losses, and responding appropriately.

CEU Relevancy: This course aims to aid participants in identifying and understanding controls and SCADA within an integrated system. Understanding the controls and their interrelationship within a Water or Wastewater plant is necessary for Detecting control-related issues, Preventing mishaps, and Responding appropriately. In addition, this knowledge often supports ideas on opportunities to realize operational effectiveness and efficiencies.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Jonathan Frank

Job Title: Director of Business Development **Email:** jon@advancedcontrol.com

Employer: Advanced Control Systems **Phone #:** 2089992333

Education: BBA from Boise State University

Primary Knowledge/Skills/Abilities Related to Presentation: Manufacturing Engineering, Electronic Medical and Aerospace product development and manufacture

Professional Organizations/Activities: LinkedIn

Related Papers/Instruction Given: "SCADA in the Cloud" - Eve Tues Oct 5 - 3:30 Thurs Oct 6th IRWA NORTHERN Annual Northern Conference Adrianna Hummer (208) 392-3576Red Lion, Post Falls Idaho, and November 15th thru 17th Setup 14th evening Teardown 16th afternoon UBOS / SOR Oregon Operat

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Service Line Inventory Requirements of the LCRR

Summary of Lesson Content: Presentation will outline the requirements for systems to submit their service line inventory. Will show the required template, FAQ and the most current information we have from EPA regarding this rule update.

CEU Relevancy: This presentation is for water operators/public works in regard to their systems' service line plumbing and record keeping. This inventory requirement is mandated by EPA and we are developing materials to assist public water systems with this task. All operators should find the service line information valuable for their system and assist with planning projects.

Target Audience: Drinking Water Operators ONLY

Presenter: Amy Word

Job Title: Natural Resource Specialist

Email: amelia.a.word@oha.oregon.gov

Employer: State of Oregon

Phone #: 541-214-8105

Education: B.S. Biology

Professional Background: Worked for Drinking Water Services since 2008

Primary Knowledge/Skills/Abilities Related to Presentation: Have worked with the drinking water program since 2008, spent last 3 years on lead and copper

Professional Organizations/Activities: National Environmental Health Association (NEHA)

Related Papers/Instruction Given: Overview of lead and copper revisions (2022) Ontario short school

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Your DEQ Online: Applying for Operator Certification

Summary of Lesson Content: DEQ is now using a web-based electronic system called Your DEQ Online (YDO) for all applications. This session will introduce you to this system and particularly focus on how Wastewater Operators will use YDO for applying for and renewing certifications.

CEU Relevancy: This presentation educates the operators seeking to gain or maintain required certification from DEQ on the new system DEQ will use for the application and renewal process. The purpose of certifying operators is to assure that they have the education, experience and mastery of information used in their work in order to protect water quality to maintain human and environmental health.

Target Audience: Wastewater Operators ONLY

Presenter: Tiffany Yelton-Bram

Job Title: Manager, Water Quality permits **Email:** tiffany.yelton-bram@deq.oregon.gov

Employer: Oregon Department of Environmental Quality **Phone #:** 503 975 0046

Education: degree from the The Evergreen State College in Olympia WA

Professional Background: 30+ years working for state and local environmental regulatory agencies

Primary Knowledge/Skills/Abilities Related to Presentation: role in development of software, tested software

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Tour of water and wastewater treatment plant

Summary of Lesson Content: Tour of water treatment facility view and discuss process and equipment in use. Tour of the wastewater treatment facility and discuss recent upgrades and process equipment in use.

CEU Relevancy: View and discuss process and equipment in use. Tour of the wastewater treatment facility and discuss recent upgrades and process equipment in use.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Kyle Willman

Job Title: RRF Technician

Email: kyle.willman@ci.pendleton.or.us

Employer: City of Pendleton

Phone #: 5413778600

Education: BA

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: operation of a lvl 4 treatment plant.

Professional Organizations/Activities: PNCWA

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: The FACTs of Leadership

Summary of Lesson Content: Building and motivating teams is important in any organization. I will give you the proven principles the FACTs of building and motivating teams. These principles apply to any team, sports, government, politics and business.

CEU Relevancy: Leadership getting buy-in from team members is important in any organization.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Shane Needham

Job Title: Serial Entrepreneur, Scientist, Motivational Speaker **Email:** shane@drsneedham.com

Employer: Needham Scientific, Inc. **Phone #:** 2083013053

Education: Othello High School, BS Chemistry Washington State University, Ph.D. Chemistry University Rhode Island

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: Science, business, leadership, entrepreneurship

Professional Organizations/Activities:

Related Papers/Instruction Given: Ted Talk April 2019

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5
Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Water Sampling

Summary of Lesson Content: Introduction to the importance of testing and sampling correctly (including hands-on sampling)

CEU Relevancy: Correct sampling and techniques are critical for regulatory sampling and protecting public health

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Beth Read

Job Title: Rural Development Specialist **Email:** bread@rcac.org

Employer: RCAC **Phone #:** 15415705741

Education: Bachelor of Science

Professional Background: Numerous short schools and conferences, instructor for Professional Training Association, prior environmental laboratory owner

Primary Knowledge/Skills/Abilities Related to Presentation: Rural Development Specialist, Bachelor of Science, Numerous short schools and conferences, instructor for Professional Training Association, prior environmental laboratory owner

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center – Pendleton OR

Instructor Background & Information

Presentation Title: Municipal Water Rights and Effluent Registration

Summary of Lesson Content: Attendees will leave class understanding where to find their water rights, how to interpret them, and identify if changes are necessary. Effluent registration information will be provided for wastewater operators that land apply effluent.

CEU Relevancy: Certified operators will be able to use this information to ensure they stay within their authorized rate and place of use. They will be able to better identify potential shortfalls in water quantity and possible solutions. Waste water operators will be able to successfully understand the OWRD effluent registration process.

Target Audience: Combined: Both Water & Wastewater Operators

Presenter: Greg Silbernagel

Job Title: Watermaster - Umatilla Basin **Email:** Greg.M.Silbernagel@water.oregon.gov

Employer: Oregon Water Resources Department **Phone #:** (541)969-1677

Education: B.S. Commercial Recreation Management - Oregon State University

Professional Background:

Primary Knowledge/Skills/Abilities Related to Presentation: Water law interpretation, water right application assistance, water use regulation

Professional Organizations/Activities:

Related Papers/Instruction Given:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference

April 3 - 5

Pendleton Convention Center, Pendleton Oregon

Instructor Background & Information

Presentation Title: The Top 5 Mistakes Public Agencies Make When Hiring An Engineer

Presenter: Andy Perry **Job Title:** Business Relations Director

Employer: Anderson Perry & Associates, Inc.

Phone #: 5417862473 **Email:** aperry@andersonperry.com

Summary of Lesson Content: This presentation will review common mistakes that public agencies make when hiring an engineer. Items discussed will include developing a good RFP, the pitfalls of asking for price, how to define a good scope, and league requirements often overlooked.

CEU Relevancy: Understanding the items presented will help attendees better plan for their projects, expedite their project timelines, and save their agencies time and money. It will also help attendees better understand how to scope a project to ensure that projects will meet agency requirements and improve a water/wastewater system to protect water sources and public health.

Professional Background: Andy started with Anderson Perry & Associates, Inc. in 2001 and helps to direct client relation efforts, the firm's marketing programs, oversees the Information Technology (IT) team, and GIS team, is a member of the firm's management committee. Andy has a B.S in computer science from Brigham Young University and an M.B.A from the University of Phoenix. Andy is also a licensed FAA Unmanned Aerial System (UAS / Drone) pilot and conducts flights for the firm. Andy regularly competes in triathlons and enjoys spending time in the mountains with his kids.

Primary Knowledge/Skills/Abilities Related to Presentation: Nearly 20 years of experience working with Public Agencies to procure A/E Services

Education: BS, MBA

Professional Registration/Certification:

Related Papers/Instruction Given:

Professional Organizations/Activities: ACEC Oregon / Various Committees

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference
April 3 - 5
Pendleton Convention Center - Pendleton Oregon

Instructor Background & Information

Presentation Title: Meter & Automation

Presenter: Dougals Kubik **Job Title:** AMR/AMI Specialist

Employer: Ferguson Enterprises

Phone #: 509.655.1995 **Email:** doug.kubik@ferguson.com

Summary of Lesson Content: General Metering and Automation info. Including AMR/AMI

CEU Relevancy: Helps to educate operators on current, new and emerging technologies to help improve efficiencies and accuracies within their operating systems

Professional Background: Worked for a hydrant and valve manufacturer prior to starting work for Ferguson Metering and Automation Group.

Primary Knowledge/Skills/Abilities Related to Presentation: Over a decade of experience in Hydrants and Mains.

Education: Ag Degree

Professional Registration/Certification:

Related Papers/Instruction Given: Hydrants & Mains Install & Mainteneace CEU Coarse - National Parks Water Staff(

Professional Organizations/Activities:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference
April 3 - 5
Pendleton Convention Center, Pendleton Oregon

Instructor Background & Information

Presentation Title: Cross Connection and Backflow Protection Certification Overview

Presenter: Molly Keller **Job Title:** Program Analyst 2

Employer: OHA - DWS

Phone #: 360-907-4487 **Email:** molly.a.keller@dhsoha.state.or.us

Summary of Lesson Content: An overview on what is required for Tester/Specialist certification and how to renew your certification. Including tips and tricks for Specialists and what is up and coming for the DWS certification program.

CEU Relevancy: The presentation will help operators understand what is required for tester/specialist certification and if they already have tester/specialist certification it will allow them to familiarize themselves with renewal requirements and keep them up to date with the direction of the certification program.

Professional Background: NA

Primary Knowledge/Skills/Abilities Related to Presentation: I run the Cross Connection and Backflow Prevention program for the State of Oregon Drinking Water Program.

Education: BA - Environmental Policy and Planning

Professional Registration/Certification: NA

Related Papers/Instruction Given: NA

Professional Organizations/Activities: NA

Course Sponsor: Eastern Oregon AWWA/PNCWA

2023 Eastern Oregon Operators Conference
April 3 - 5
Pendleton Convention Center, Pendleton Oregon

Instructor Background & Information

Presentation Title: What happens after calling 911; Fire at Water Plant

Presenter: Sue Lawrence **Job Title:** Public Works Director

Employer: City of Rainier

Phone #: 5033961736 **Email:** slawrence@cityofrainier.com

Summary of Lesson Content: The City of Rainier experienced a fire a the Water Treatment Plant. The presentation will go into details about the cause of the fire, what happend in the immediate after math, steps taken to keep water service intact. Experience in rebuilding and dealing with insurance.

CEU Relevancy: The lessons learned can be used for both water and wastewater operators. The steps to address the aftermath of a fire is applicable to both.

Professional Background: 31 years in Wastewater and 5 years in Public Works

Primary Knowledge/Skills/Abilities Related to Presentation: Responsible for the facility and Repair

Education: Blue Mt Community College

Professional Registration/Certification: Wastewater Grade IV, Collections Grade IV

Related Papers/Instruction Given:

Professional Organizations/Activities:

Course Sponsor: Eastern Oregon AWWA/PNCWA

2022 Eastern Oregon Operators Conference

March 28 – 30, 2022
Four Rivers Cultural Center, Ontario Oregon

Instructor Background & Information

Presentation Title: Managing a Water Meter Project- What to expect

Presenter: Tammy Rogers **Job Title:** Project Manager

Employer: Ferguson Enterprises

Phone #: 15032094902 **Email:** tammy.rogers@ferguson.com

Summary of Lesson Content: We will provide basic information on how to a. prepare for a water meter project b. how to manage project during deployment c. how to close out a meter project

CEU Relevancy: This information will help prepare an operator as they take on a meter replacement project, or upgrade their reading system. This will help with customer notification, tracking a project and provide safety protocols. In conclusion we will identify key milestones to confirm a meter project is complete and fully functioning.

Professional Background: i will send my bio

Primary Knowledge/Skills/Abilities Related to Presentation: 27 years industry experience.

Education: some college

Professional Registration/Certification: Certified Sensus Project Manager, 10 hr OSHA Certification

Related Papers/Instruction Given: Metering and Conservation, 9/20, EORAWWA, Conservation and Efficiency through Metering, 8/2019 , Evergreen Rural Water Association

Professional Organizations/Activities: AWWA, Eastern Oregon PNCWA/AWWA Committee

Course Sponsor: Eastern Oregon AWWA/PNCWA

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Keynote Speaker - What is the future of Water?

Presenter: Lara Kammereck Title: Senior Vice President

Employer: Carollo Engineers Address: 1200 Fifth Avenue, Suite 900

City: Seattle State: WA Zip: 98101 Phone: 206-684-6532

Length of Lesson: _____ Lesson applies to: ☐ Water ☐ Wastewater ☑ Both ☐ Online Option:

Summary of Lesson content: Review of PNCWA vision, mission and objectives. The history of clean water in the pacific northwest and what it may look like for the future.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Civil engineer with 30 years of experience planning and designing water distribution, collection system, and wastewater facilities.

Education (High School, Upgrades, Colleges and Degrees): See attached resume.

Professional Registration/Certification: See attached resume.

Related papers/instruction you have presented:

Title: See attached resume. Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

See attached resume. Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

Education

MBA Operations, Seattle University, 2005

BSCE Civil Engineering, Gonzaga University, 1992

Licenses

Professional Engineer, Washington

Civil Engineer, Oregon

Certification

Project Management Professional, Project Management Institute, 7/12/2011

Professional Affiliations

American Water Works Association (AWWA)

Pacific Northwest Section (PNWS)

American Public Works Association (APWA)

Water Environment Foundation (WEF)

Pacific Northwest Clean Water Association (PNCWA)

Lara Kammereck, P.E., PMP

Lara Kammereck is a civil engineer with more than 30 years of experience focused on water and wastewater master planning for public utility systems. Ms. Kammereck specializes in master planning and demographic analysis for both water distribution, collection system, and wastewater conveyance systems. Her technical expertise also includes conceptual and preliminary design of pipelines and pump stations for both water and wastewater systems.

Ms. Kammereck is the current President for the Pacific Northwest Clean Water Association (PNCWA) and has been a Board Member since 2018 and served as Conference Chair for the annual conference. Ms. Kammereck has served as a trustee on the AWWA Water Resource Sustainability Division, chair of the national AWWA Water Resources Planning and Management Committee 2012-2015 and was project manager for the M50 Water Resources Planning Supply Practices Manual. Since 2014, she has been on the Executive Committee for the PNWS AWWA Women In Leadership (WIL) Symposium in Seattle. Her project history includes:

Relevant Experience

→ Project manager for the City of Tukwila, Washington, Integrated Comprehensive Sewer and Water Master Plans. The Water Master Plan includes a water demand forecast, summary of source of supply analysis, detailed system supply analysis through year 2030, and CIP with associated financial requirements. The Sewer Master Plan includes sewer flow forecast and system analysis through year 2030. The project also involves evaluating existing lift stations for capacity to convey the projected quantities of sewage and infiltration and inflow (I/I), and a 20-year CIP.

→ Project manager for the City of Renton, Washington, 2018 Long-Range Wastewater Management Plan Update. The project updated the City's plan and included an evaluation of the City's wastewater facilities using the City's updated and calibrated hydraulic model to develop a new 20-year CIP. Project manager for the City of Renton's Water System Plan Update. This project involves an update to the City's 20-year demand forecast with input on future development from the City's Community and Economic Development Department. Carollo will update the City's all-pipe InfoWater model that includes 16 pressure zones and nearly 310 miles of pipe and calibrate the model for both static and extended period simulation (EPS) conditions. Custom diurnal curves created using the City's AMI data will be used for an EPS model analysis of the water system. Carollo incorporates all of the recommended projects identified by the system analysis into an electronic CIP tool that is integrated with a financial forecast tool. As the City makes updates to their CIP they can see the impact on their financial outlook.

→ Project manager for the Update to the LTCP to inform the Systemwide Comprehensive Plan for King County, Washington. This aspect of the project includes analysis of the existing LTCP alternatives identified in previous phases and combined with a list of new water quality investments, programs, and policies. The combined list of prioritized LTCP alternatives will meet long-term regulatory obligations and maximize the investment in CSOs to increase water quality improvements regionally.

→ Principle-in-charge for the Sewer System Lakeline and Pump Station Access Evaluation for the City of Mercer Island, Washington. Carollo performed a detailed field investigation of the City's above ground Lakeline assets that have limited accessibility, including pump stations, generators, and special catch basins, and developed access approaches for each pump station and special catch basins. The existing IP was refined to identify projects and programs to operate, maintain, and repair and eventually replace the Lakeline system.

→ Project manager for the Kennydale Lakeline Sewer System Analysis Phase 1, for the City of Renton, Washington. Phase 1 of the system analysis included Gathering hydraulic, geometric, operational, and survey

Lara Kammereck, P.E., PMP

Awards

2020 Talent Award, Carollo Engineers, Inc., Inc.

2017 OASIS Award for Water Resource Sustainability Division, AWWA

data on the existing system. A condition assessment of the flush and pump system facilities. Phase 2 includes a comprehensive condition assessment and analysis of the existing lakeline and associated laterals to identify system vulnerabilities. This phase identifies a strategy for the City to modify, replace, or repair the system.

→ Project manager for the City of Bellevue, Washington, Comprehensive Water System Plan Update. Conducted an industry survey of storage criteria to benchmarks the City's criteria and recommend updates. Evaluated required storage volumes and identified future deficiencies for the City's 26 reservoirs. Storage improvement projects were sized to eliminate future deficiencies. Included planning for establishing emergency wells from existing, unused groundwater wells. Developed cost estimates to aid in evaluating at alternatives and creating phasing for the preferred alternative.

→ Project manager for the Cascade Water Alliance, Washington, Lake Tapps Emergency Design project. Cascade and Carollo outlined a hybrid Design/Build approach to improve the deficient structures. With the lake refilling to begin by mid-April 2015, the team had just three months to complete the project from design through fabrication and construction. The immediate projects included a new trash rack, fill gate, stop gate, concrete rehabilitation, and replacing a severely dilapidated wood decking at the Tunnel Intake Structure. These were all completed in time for Cascade to start filling the Lake. A second set of emergency repairs included valve upgrades and discharge tube repairs at the powerhouse near the discharge flume.

Project manager for the Gig Harbor, Washington, Groundwater Well Supply Improvements. Ongoing project since 2008 has assisted the City with identifying potential shallow and deep groundwater wells to meet short and long-term supply deficiencies. Effort included site selection analysis, test well, production well, and pump station design, hydrogeologic investigation, demand analysis, well drilling, and water rights negotiation.

Publications/Presentations

→ Kammereck, L. "Leadership Perspectives from the Future Workforce." Proceedings of the Pacific Northwest Clean Water Association Annual Conference and Exhibition, Spokane, WA. September 13-16, 2020.

→ Kammereck, L. and Tice, K. "Resiliency in Master Planning: Reduce Risk and Shorten Recovery Time by Identifying and Prioritizing System-Wide Improvements." *Water Efficiency*. 14(6): 30-31, September/October 2019.

→ Kammereck, L. and Reisinger, D. "Flushing Tips How to Implement a Unidirectional Flushing Program and Improve Your Efficiency, Conservation." Water Finance & Management, October 2016.

→ Kammereck, L. "M50, Water Resources Planning." Proceedings of the American Water Works Association/Sustainable Water Management Conference, Providence, RI, March 7-10, 2016.

→ Repp, D., Kammereck, L. and Orgill, R. "Implementation of a Unidirectional Flushing Program – Great Way to Flush." Proceedings of the American Water Works Association Annual Conference & Exposition, Denver, CO, June 8-11, 2014.

→ Borgstadt, B., Kammereck, L., Reisinger, D., and Harms, D. "Capitalizing on Aging Infrastructure Replacements to Improve Distribution System Performance through Pressure Rezoning." Proceedings of the American Water Works Association Annual Conference & Exposition, Denver, CO, June 8-11, 2014.

→ Michael, M., Kammereck, L., Reisinger, D., and Uber, C. "Doing More with Less to Assure Regional Growth and Development in Shelton, WA." Proceedings of the American Water Works Association Annual Conference & Exposition, Denver, CO, June 8-11, 2014.

→ Kammereck, L. and Christensen, D. "Renton's Operations Master Plan – A Tool for Integrated Infrastructure Management." Proceedings of the Pacific Northwest Clean Water Association Annual Conference and Exhibition, Bend, OR, September 14-18, 2013.