

Lisa Erkert

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1-29-2020

Judy Grycko

OESAC/CEU Committee

PO Box 577 Canby OR 97013-0577

Dear Judy Grycko:

Please consider this correspondence a request for CEU evaluation for the AWWA Cascade to Coast Subsection Short School to be held March 15th-18th at the Linn County Expo in Albany. The Cascade to Coast Subsection is the sponsor of the school. The speakers are chosen based on prior OESAC CEU Committee approval and topic relevance to Short School agenda and past student evaluations indicating high approval ratings and effectiveness as well as ideas for future topics by the Short School committee.

I am doing the administrative work for the committee this year. Enclosed is a check for \$175 for the evaluation fee for 2.0 CEUs. Enclosed are the following:

1. Application form and payment.
2. Schedule of individual classes offered including start & stop times, breaks & lunch times.
3. Class descriptions, instructor name, employer and/or affiliation, & length of each class (CEU).
4. Instructor background and information forms.

Each participant is given an attendance form and each class is monitored by stamping their attendance form at the end of the class. An electronic record is made and a copy is sent to each participant, along with their certificate of CEUs earned. The maximum credits available is 2.0 CEUs. Additionally, we are offering attendees the opportunity to attend a 6 hour cross connection specialist recertification class that will be separate from our school. Those attending will utilize the OESAC # for that course. Short school will be tracking this course by those who attend it and provide a separate certificate of the CEUs earned from this course.

Each participant certificate will include the following information: School Title, OESAC number, date and number of CEUs earned based on each participant's actual hours of class attendance. The certificate will detail the number of CEUs earned for Water and/or Wastewater Certification, as well as the total CEUs earned.

The OESAC CEU Committee, OHA-DWP and Oregon DEQ will be provided a roster with the participant's name, employer, Oregon Certification Number, type and number of CEUs earned after the completion of the school. A permanent record of individual CEU awards is kept with the Short School files for a minimum of five years.

Please let me know if you need additional information or materials prior to the Committee's meeting. I can be reached by phone or email at the contact information above.

Thank you in advance,

Lisa Erkert

| TIME | COLLECTIONS | WASTEWATER | DISTRIBUTION | SOURCE/TREATMENT | SPECIALTY CLASSES |
|-------------|--|---|--|---|--------------------------|
| | | | | | |
| | | TUESDAY, MARCH 15TH | | | |
| | | | | | |
| 12:30-2:30 | Jim Allred - Lebanon Wastewater Plant Tour 0.2CEUs (WW) | Jim Allred - Lebanon Wastewater Plant Tour 0.2 CEUs (WW) | Scott LaRoque/Chuck Leffler - Albany Water Treatment Plant Tour 0.2 CEUs (W) | Scott LaRoque/Chuck Leffler - Albany Water Treatment Plant Tour 0.2 CEUs (W) | |
| 3:00-5:00 | Brian Stevens - AM WRF Composting Facility Tour 0.2 CEUs (WW) | Brian Stevens - AM WRF Composting Facility Tour 0.2 CEUs (WW) | Chris Germond - Lebanon Membrane Water Treatment Plant Tour 0.2 CEUs (W) | Chris Germond - Lebanon Membrane Water Treatment Plant Tour 0.2 CEUs (W) | |
| | | | | | |
| | | WEDNESDAY, MARCH 16TH | | | |
| | ROOM 1 | ROOM 2 | ROOM 3 | ROOM 4 | SATELITE RM |
| 7:00-8:00 | Doug Troyer (Underground Tech) - Protecting the Collection System 0.1 CEU (WW) | | Frank Spevak (Rosemount Analytical) - Reagentless Free Chlorine 0.1 CEU (B) | | |
| 8:15-9:15 | Dave Olson (Xylem) - Submersible Pumps and Preventative Maintenance 0.1 CEU (B) | Dave Bobbett (Whitney Equipment) - Onsite Generation of Sodium Hypochlorite 0.1 CEU (B) | Tim Owens (Correct Equipment) - What if Your Meters Could Hear the Leaks You Can't See 0.1 CEU (W) | Brady Fuller (Jacobs) - The Dalles, Oregon Dog River Pipeline Replacement 0.1 CEU (W) | |
| 9:30-10:30 | Mark Landau/Matt Johnson (City of Monmouth) Large Fuel Spills and How They Affect Your Water/Wastewater System 0.1 CEU (B) | Mark Walter (Waterdude Solutions) - Operator decision making skills Part 1 0.1 CEU (WW) | Carl Schaumburg & Ron Bell (City of Corvallis) - History of Valves 0.1 CEU (B) | Frank Spevak (Rosemount Analytical) & Lonny Sayles (EWEB) - North American FCL Users Group Exchange 0.1 CEU (W) | |
| 10:45-11:45 | | Mark Walter (Waterdude Solutions) - Operator decision making skills Part 2 0.1 CEU (WW) | Chris Vincent & Matt Conley (EWEB) - Claims and Liability in Water 0.1 CEU (W) | | |
| 11:45-12:45 | LUNCH | LUNCH | LUNCH | LUNCH | LUNCH |
| 12:45-1:45 | | Kelson Redding/Adam Scherba (Energy 350) - Reduce Operating Costs with Energy Efficiency 0.1 CEU (WW) | Frank Spevak (Rosemount Analytical) - pH 101 0.1 CEU (B) | Chris Wilson (Joint Water Commission) - Drinking Water Regional Internship Program Building a Water Workforce 0.1 CEU (W) | |

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|-------------|--|--|---|---|--------------------|
| 2:00-3:00 | Katie Maschmann (HDR) - Maximizing Return on Investment Using Optimization 0.1 CEU (WW) | Max Hildebrand (City of Corvallis) - How Do I Know If My Treatment Plant Is Working 0.1 CEU (WW) | Mike Uthe (Mueller Water Products) - Automatic Control Valves 0.1 CEU (B) | John Kennedy (AKS Engineering & Forestry) & Cody Marrs (City of Salem) - City of Salem's Geren Island Water Treatment Plant Improvement Project 0.1 CEU (W) | |
| 3:15-4:15 | Tanner Hartsock (BioLynceus) - The Changing World of Pretreatment 0.1 CEU (WW) | | Pierre Kwan (HDR) - Understanding the Lead and Copper Rule Revisions 0.1 CEU (W) | Brenda Scott Cervantes (LCC) - Water Conservation Education and More 0.1 CEU (B) | |
| 4:30-5:30 | | Tanner Hartsock (BioLynceus) - The Future of Biosolids Handling 0.1 CEU (WW) | Gwen Woods-Chabane (HDR) - Management of Legionella in Water Systems 0.1 CEU (W) | Andrew Nishihara (Stantec) - What's Happening with PFAS? 0.1 CEU (W) | |
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| | | | | | |
| | | THURSDAY, MARCH 17TH | | | |
| | ROOM 1 | ROOM 2 | ROOM 3 | ROOM 4 | SATELITE RM |
| 7:00-8:00 | | Brian Stevens (City of Albany) - Albany WRF Compost Upgrade Project 0.1 CEU (WW) | Nathan Endicott (EWEB) - EWEB's Emergency Water Supply Approach 0.1 CEU (W) | | |
| 8:15-9:15 | Brogan Quist (SmartCover) - The Sewer Whisperer: Listen Closely, Your Sewer is Talking to You 0.1 CEU (WW) | | | Toby Dixon (EWEB) - Switching from Gas Chlorine to On-site Generation Hayden Bridge Filtration Plant 0.1 CEU (B) | |
| 9:30-10:30 | Rich Owens (Owens Pump and Equipment) - Revolutionizing Sludge Dewatering 0.1 CEU (WW) | Todd Miller (City of Springfield) - A Porfolio Approach to Temperature Compliance 0.1 CEU (WW) | Bill Kelly (Syrinx, Inc.) - Calming the Flow: Monitoring Pressure Transients to Reduce Main Breaks 0.1 CEUs (W) | Craig Harper (Medford Water Commisison) - Drinking Water Partnership in Rogue River Basin 0.1 CEU (W) | |
| 10:45-11:45 | Rich Owens (Owens Pump and Equipment) - Collections Plugging Solutions 0.1 CEU (WW) | Jim Allred (City of Lebanon) - MBR Process Membrane Operations 0.1 CEU | Bill Kelly (Syrinx, Inc.) - Tech Tackles Water Theft Mystery 0.1 CEUs (W) | Suzanne de Szoeki (GSI Water Solutions, Inc) - Drinking Water Protection Plan Development 0.1 CEU (W) | |
| 11:45-12:45 | LUNCH | LUNCH | LUNCH | LUNCH | LUNCH |
| 12:45-1:45 | John Bastianelli (RUSA) GIS and Asset Management for WW Collection Systems 0.1 CEU (WW) | Jim Allred (City of Lebanon) - Physical/Biological Treatment High Strength Wastes 0.1 CEU (WW) | Jeremiah Hunt (EWEB) - When your Drinking Water System is Compromised 0.4 CEUs (B) | David Cohen (Outset) - Water Supply Contaminates of Concern for Dialysis Patients 0.1 CEU (W) | |

2022 AWWA Cascade to Coast Short School Class Descriptions

Note: All classes are designated as follows:

(W) – Water Certification

(WW) – Wastewater Certification

(B) – Both Water and Wastewater Certification

COLLECTIONS

(WW) Protecting the Collection System: *Doug Troyer, Underground Tech.* What to look for in storm or sanitary sewer systems and a look at technologies available to protect and extend the life of your infrastructure. 0.1 CEU

(B) Submersible Pumps and Preventative Maintenance: *Dave Olson, Xylem.* What makes up a pump and how to maintain it. 0.1 CEU

(B) Large Fuel Spills and How They Affect Your Water/Wastewater System: *Mark Landau and Matt Johnson, City of Monmouth.* Fuel spills in Monmouth; how the water and wastewater systems are affected, steps taken, testing, monitoring, air quality, disposal, cleanup, DEQ involvement, stakeholders, meeting held. 0.1 CEU

(B) Cellular Telemetry: *Tim Owens, Correct Equipment.* Introduction to cellular based telemetry. An overview of different types of radio architectures. Navigation of how these systems work while detailing the pros and cons of each type of system. 0.1 CEU

(WW) Maximizing Return on Investment Using Optimization: *Katie Maschmann, HDR.* Johnson County Wastewater (KS) adopted optimization as a tool to prioritize investment needs in the collection system. Presentation will focus on what it takes to achieve a successful optimization implementation based on lessons learned from multiple projects with JCW. 0.1 CEU

(WW) The Changing World of Pretreatment: *Tanner Hartsock, BioLynceus.* From FOG to H₂S, Hefeweizen and more. What you should be doing to combat the changing world of wastewater regulations, how to protect your treatment facilities, and what to expect moving forward. 0.1 CEU

(WW) The “Sewer Whisperer”: Listen Closely, Your Sewer is Talking to You: *Brogan Quist, SmartCover.* This presentation reviews how customers can adopt unique and patented monitoring technology, which gives them data in the field that they did not have before. The level monitors mount directly on the manhole covers – thereby eliminating the need for a confined space entry - and use ultrasonic sensors to monitor water levels. The remote monitors effectively operate in two modes: Data Collection: by sending data to a secure customer website, and Alarming: by sending alarms directly to the customer.

(WW) Revolutionizing Sludge Dewatering: *Rich Owens, Owens Pump & Equipment.* Why dewater your sludge? Find out how sludge can be dewatered and with what types of equipment. Each type of equipment has its positives and negatives. What are the essential features you want in your plant? Maintenance, sludge consistency, or simplicity? 0.1 CEU

(WW) Collections Plugging Solutions: *Rich Owens, Owens Pump & Equipment.* What type of items are being found in wastewater collections, and what type of pumps are available to prevent collections plugs. Discussion of the advantages and disadvantages of each design and concept. 0.1 CEU

(WW) GIS and Asset Management for Wastewater Collection Systems: *John Bastianelli, Roseburg Urban Sanitary Authority.* Data collection, GIS, and asset management integration for wastewater collection systems. 0.1 CEU

(B) Pump Station Rehabilitation on a Budget: *James Baird, Roseburg Urban Sanitary Authority.* Evaluation of existing pump station, identification of operational deficiencies, identification of safety concerns. Development of plans for improvements needed, establish a sequence for construction, produce a work plan and method to complete the improvements and provide a detailed system to install all the necessary components. This class will help students see how an improvement of this scope can be done in house as opposed to hiring a contractor to complete the project. 0.1 CEU

(WW) Pipe Assessments 101: *Jim Brown, True North Equipment.* Discussion of some of the history of sanitary sewer, reasons for inspection and assessment, and methods and terminology used in CCTV inspection as well as a brief overview of NASSCO and PACP assessment. 0.1 CEU

WASTEWATER

(B) On-site Generation of Sodium Hypochlorite: *Dave Bobbett, Whitney Equipment.* Disinfection product overview, system design overview, project considerations, redundancy, maintenance needs, case stories, and Q & A.

(WW) Developing Operator Decision Making Skills for Emergency Response Part 1: *Mark Walter, Waterdude Solutions.* In order to protect the environment and work safely under all conditions requires a measured approach to decision making. This training will highlight various decision-making concepts and how they apply to the operation and maintenance of wastewater systems. Attendees will be introduced to the OODA decision making method to accelerate decision making, particularly in emergency situations. 0.1 CEU

(WW) Developing Operator Decision Making Skills for Emergency Response Part 2: *Mark Walter, Waterdude Solutions.* In order to protect the environment and work safely under all conditions requires a measured approach to decision making. This training will highlight various decision-making concepts and how they apply to the operation and maintenance of wastewater systems. Attendees will be introduced to the OODA decision making method to accelerate decision making, particularly in emergency situations. 0.1 CEU

(WW) Reduce Operating Coasts with Energy Efficiency: *Kelson Redding and Adam Scherba, Energy 350.* A common misconception is that energy is a fixed cost. This presentation will highlight the biggest energy users common in wastewater treatment plants and present ideas to help reduce operating costs. In addition, we will show you how to get utility incentives for energy efficiency. 0.1 CEU

(WW) How Do I Know If My Treatment Plant is Working: *Max Hildebrand, City of Corvallis.* Help operators understand process controls, different tools for evaluating the process and how the processes effect other processes. 0.1 CEU

(WW) The Future of Biosolids Handling: *Tanner Hartsock, BioLyceus.* Sustainable biosolids handling strategies are becoming increasingly difficult to develop. Even landfill applications are uncertain. Recently the state of California banned the use of biosolids as an alternative landfill cover. Now more than ever, WRRFs are considering innovative, even novel technologies for managing their biosolids. As regulations become more stringent, the time to consider new technologies for biosolids is now. 0.1 CEU

(WW) Albany-Millersburg WRF Compost Upgrade Project: *Brian Stevens, City of Albany.* This lesson will chronicle the history behind the need for a composting project, compost facility construction, facility start-up, and composting basics. 0.1 CEU

(WW) A Portfolio Approach to Temperature Compliance: *Todd Miller, City of Springfield.* Development of a portfolio of mitigation options rather than a single solution for wastewater compliance needs like temperature can result more cost effective, more environmentally beneficial, and more community beneficial solutions. 0.1 CEU

(WW) MBR Process Membrane Operations: *Jim Allred, City of Lebanon.* Process control using submerged hollow fiber membrane in elevated concentrations of bio-mass. 0.1 CEU

(WW) Physical/Biological Treatment High Strength Abattoir Wastes: *Jim Allred, City of Lebanon.* Development of advanced approached treatment process capable of meeting stringent Oregon DEQ discharge permit limits. 0.1 CEU

(B) Utility Operator Math: *Brian Stevens, City of Albany.* This course will cover basic math and hydraulic skills used by water and wastewater plant operators. Topics include unit conversion, area and volume, dimensional analysis, chemical dosing, flow, and velocity. 0.2 CEU

WASTEWATER TOURS

(WW) Tour of Lebanon Wastewater Plant: *Staff of wastewater plant.* Overview and tour of the Lebanon wastewater plant. 0.2 CEUs

(WW) Tour of Albany-Millersburg WRF Composting Facility: *Brian Stevens, City of Albany.* Educational tour of the recently constructed composting facility at the Albany-Millersburg WRF. Content will include composting basics, amendment/bulking material, compost operations, and dewatering. 0.2 CEUs

DISTRIBUTION

(B) Reagentless Free Chlorine: *Frank Spevak, Rosemount Analytical.* Fundamentals of measurement, technology comparison, troubleshooting techniques, calibration procedures and various installation ideas in Oregon. Effects of pH, flow and temperature are also discussed. 0.1 CEU

(W) What if Your Meters Can Hear the Leaks You Can't See: *Tim Owens, Correct Equipment.* Acoustics are extensively used for locating leaks within a water grid. A new approach is used in an ultrasonic sensor housed inside of a water meter. Since meters are installed at every customer location, operators will have greater coverage to monitor the system for leaks in service lines as well as the distribution lines. 0.1 CEU

(B) Valves and Maintenance: *Carl Schaumburg and Ron Bell, City of Corvallis.* This presentation will deal with the operation, repair, and maintenance of valves. 0.1 CEU

(W) Water Distribution Claims and Risk Management: *Chris Vincent and Matt Conley, EWEB.* This class will cover water distribution claims, including taking photographs, how to respond to a vehicle incident, how to write a damage report, and what to say (or NOT to say) when an incident occurs. 0.1 CEU

(B) pH 101: *Frank Spevak, Rosemount Analytical.* To explain how the glass and reference electrodes operate, their relationship and use in combination electrodes, what slope and reference offset are, the effects of temperature, proper maintenance, troubleshooting and a live buffer calibration. Will also show some installations NOT to do. 0.1 CEU

(B) Automatic Control Valves: *Mike Uthe, Mueller Water Products.* Control valves can help provide data and control water loss. This presentation will cover the hydraulic fundamentals of these valves along with tips for choosing, troubleshooting, and maintaining them. 0.1 CEU

(W) Understanding the Lead and Copper Rule Revisions: *Pierre Kwan, HDR.* This presentation provides a summary of all the changes in the federal Lead and Copper Rule and the steps that all drinking water utilities throughout the country, including Oregon, have to implement to maintain regulatory compliance. 0.1 CEU

(W) Management of Legionella in Water Systems: *Gwen Woods-Chabane, HDR.* This presentation provides a review of Legionella in building water systems and provides overview of various strategies for mitigating in premise plumbing. 0.1 CEU

(W) EWEB's Emergency Water Supply Approach: *Nathan Endicott, EWEB.* The Eugene Water and Electric Board has developed a multifaceted to designing and developing emergency drinking water supply sources and distribution points should a disaster strike. The presentation will cover mobile distribution and treatment systems along with distributed well water sources. 0.1 CEU

(W) Calming the Flow: Monitoring Pressure Transients to Reduce Main Breaks: *Bill Kelly, Syrinix, Inc.* This presentation will review the step-by-step process to identify and reduce water main breaks in your distribution. By managing the causes of pressure transients in your distribution system, you can reduce water main breaks and leaks. Focus will be on pump stations and how they adversely affect the network. 0.1 CEU

(W) Tech Tackles Water Theft Mystery: *Bill Kelly, Syrinix, Inc.* Water theft is a growing issue in water stressed areas. Syrinix will illustrate how they worked with Contra Costa Water District in Northern California to pinpoint when water was taken illegally from their distribution network. 0.1 CEU

(B) ORWARN Tabletop Exercise: *Jeremiah Hunt, EWEB.* Using the ICS structure and ORWARN resources, participants of the class will work through a scenario coordinating water distribution recovery after a massive event. This will be a very interactive class as the group will brainstorm, plan and react to injects of the event. 0.4 CEU

SOURCE/TREATMENT

(W) The Dalles, Oregon Dog River Pipeline Replacement: *Brady Fuller, Jacobs Engineering Group Inc.* Project overview of the Oregon River pipeline replacement, summary of permitting, engineering design, construction phase requirements, and operations needs associated with replacing 100+ year old water supply infrastructure in remote forested site on USFS lands. 0.1 CEU

(W) North American FCL Users Group Exchange: *Frank Spevak (Rosemount Analytical) and Lonny Sayles (EWEB).* An exchange of solutions and ideas created by FCL (free chlorine/pH) panel users from throughout the Pacific Northwest and Alaska. Each idea/solution provides a unique and specific approach to solving common issues experienced by potable water suppliers here and around North America. 0.1 CEU

(W) Drinking Water Regional Internship Program (DRIP) Building Water a Workforce: *Chris Wilson, Joint Water Commission.* Discussion on creating a regional internship program for water utilities. Including grant applications, outreach, working with regional utilities, Clackamas Community College, local high schools and providing opportunities for interested people to learn about water careers and enter the workforce. There are a lot of operators retiring, a lot of new positions opening soon and not a lot of people entering the field. 0.1 CEU

(W) City of Salem's Geren Island Water Treatment Plant Improvement Project: *John Kennedy, AKS Engineering & Forestry and Cody Marrs (City of Salem).* Overview of the City of Salem's response to a cyanotoxin outbreak in 2018 in their raw water supply source (N. Santiam River). The temporary use of powdered activated carbon was followed by the recent completion of ozone treatment. 0.1 CEU

(B) Water Conservation Education and More: *Brenda Scott Cervantes, LCC.* Water education, what do you need and what do we have? Information about LCC's 2-year online degree with hands on components, how water and energy are connected, and what are some of the current themes we are seeing. 0.1 CEU

(W) City of Salem's Geren Island Water Treatment Plant Improvement Project: *John Kennedy, AKS Engineering & Forestry and Cody Marrs (City of Salem).* Overview of the City of Salem's response to a cyanotoxin outbreak in 2018 in their raw water supply source (N. Santiam River). The temporary use of powdered activated carbon was followed by the recent completion of ozone treatment. 0.1 CEU

(W) What's Happening with PFAS?: *Andrew Nishihara, Stantec.* Overview and history of PFAS, discussion about current state of regulations and treatment alternatives, and present case studies and lessons learned from two projects using different treatment technologies. 0.1 CEU

(W) Switching from Gas Chlorine to On-site Generation at Hayden Bridge Filtration Plant: *Toby Dixon, EWEB.* Describe the history of feeding chlorine at the Hayden Bridge Facility. Decisions behind the switch. Operational perspective of design including pumps, tanks sizing, type of generators. WQ monitoring prior and during the switch. Operations during the switch. Lessons learned. 0.1 CEU

(W) Drinking Water Partnership in Rogue River Basin: *Craig Harper, Medford Water Commission.* The presenter will describe measures used by the Medford Water Commission and the Rogue Drinking Water Partners, from Grants Pass to Shady Cove, to protect drinking water, and how the collaborative Partnership is contributing to effective drinking water protection and watershed management in the Rogue. 0.1 CEU

(W) Drinking Water Protection Plan Development: *Suzanne de Szoeko, GSI Water Solutions, Inc.* This presentation will cover the objectives, development process, and benefits of drinking water protection plans, and will provide examples in Oregon. 0.1 CEU

(W) Water Supply Contaminants of Concern for Dialysis Patients: *David Cohen, Outset.* Discussion of potable water contaminants and treatment chemical additions which affect dialysis patient treatment in clinical and at-home settings. 0.1 CEU

(W) Lake Oswego Water Conservation 2007-2020: *Kevin McCaleb, City of Lake Oswego.* An overview of the City of Lake Oswego's Water Conservation Program from 2007 to 2020; successes, mistakes, and results. 0.1 CEU

(W) Holiday Farm Fire: Response, Restoration, and Recovery: *Nancy Toth, EWEB.* This presentation will outline both the immediate and longer-term response efforts that EWEB and other watershed partners to assist landowners following the 2020 Holiday Farm Fire. Most of the efforts revolve around working with landowners to assess, provide recommendations, and implement actions to help prevent erosion and restore their riparian areas. 0.1 CEU

(W) EWEB's Holiday Farm Fire Source Protection Monitoring Program: *Lisa Erkert, (EWEB).* Overview of EWEB's source protection efforts to monitor water quality impacts of the Holiday Farm Fire that occurred in 2020 in the McKenzie River watershed. Presentation will include water quality monitoring sites set-up, monitoring equipment used, ambient and storm monitoring results. 0.1 CEU

WATER TOURS

(W) Tour of Albany Water Treatment Plant: *Staff of industrial water plant facility.* Overview will learn about Albany's water treatment plant. 0.2 CEUs

(W) Tour of Lebanon Membrane Treatment Plant: *City of Lebanon staff.* Operators will learn about the Lebanon's membrane treatment facility, equipment, technologies, and practices of the plant. 0.2 CEUs



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Lebanon Waste Water Treatment Plant Tour
 Presenter: JIM ALLRED Title: PLANT SUPERVISOR
 Employer: CITY OF LEBANON Address: 33110 Tennessee Road
 City: Lebanon State: ORE Zip: 97355 Phone: 541-258-4991 -
 Summary of Lesson content: Facility Plant TOUR

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: Waste Water Process Design, Engineering, Manufacturing, Operations since 1973.
 Education (High School, Upgrades, Colleges and Degrees): _____

SEE ATTACHED PROFILE

Professional Registration/Certification: _____
Grade III waste water certification for last 13 years

Related papers/instruction you have presented:

Title: MARINE Sanitation Systems Date: March 2013 Event: Clackamas short School

Title: Senior Instructor Date: 15 yrs Event: Operation Certification Training (Oct)

Professional Organizations/Activities: WEF Date: 2020

NQHA Date: 20 years

Course sponsor: CHRIS GERMOND / BRIAN STEVENS

Signature of Instructor: James J. Allred Date: Dec 27, 2021

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
 P.O. Box 577
 Canby, OR 97013-0577
 Email: info@oesac.org
 Phone: 503-698-6486



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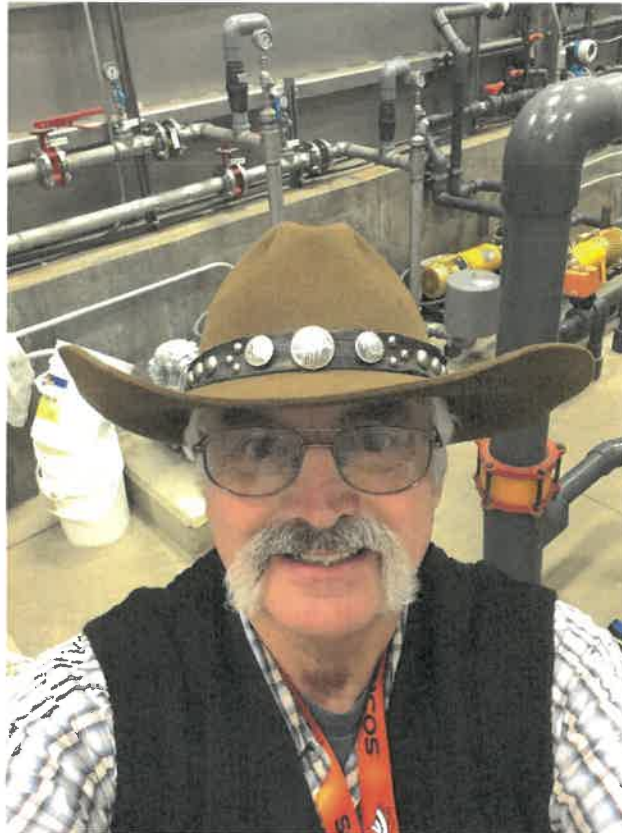
Phone: (503) 715-6825

Email: certopstech@gmail.com

Email: jallred@ci.lebanon.or.us

PROFESSIONAL PROFILE

“Helping to Help Others”



James T. Allred (Jim)

Jim Allred has been working in the wastewater industry for 49 years providing treatment solutions associated with complex wastes in various types of domestic and industrial flow streams. In many cases finding solutions resulted in generating new treatment approaches with applied technology. Jim is self-taught within the wastewater industry and over the past 49 years has attended multitudes of technical classes and seminars around the world but initially installed treatment facilities in the Aleaska Pipeline work camps after serving four years in the Navy during Vietnam.

Professional Profile
James T. Allred

Working with regulatory agencies, consulting engineers, plant managers, city managers, tribal councils, etc, Jim has personally designed, built, and supervised operations for over 375 secondary and tertiary - domestic and industrial wastewater treatment systems that have been installed in 27 U.S. states and 7 foreign countries. Many of these projects have been located in the Western United States particularly in Washington State, State of Alaska, State of Hawaii and in the State of Oregon.

Jim's specialized in design & operation of complex suspended growth systems such as suspended growth activated sludge, aerated ponds, RBC's and Sequencing Batch Reactors (SBR). Over the last 10 years, Jim's company designed, manufactured and operated varying types of submerged hollow fiber, Membrane Bio-Reactor's (ultrafiltration processes) and is one of the few operators significantly experienced operating differing types of hollow fiber submerged membrane technologies.

This also includes advanced Nitrification/Denitrification (conversion) of nitrates and in-situ generated nitrates from industrial waste waters. Some of these difficult projects required the introduction of select carbon sources to promote biological nitrate removal in previously sterilized wastewater flow streams.

Jim has designed and supervised complex research and development (R&D) programs. One project in particular for ALCOA that involved biological degradation of high Aeroclor PCB's with cooperation provided EPA Region X. Though that technology it was also discovered how to remove and isolate PCB's from contaminated soils.

Jim has been extensively involved in the treatment of high-strength commercial and industrial wastewater including but not limited to the following "high strength" applications:

- ** Complex hydrocarbon structures such as Ethanol, BTEX, TCE³, PCP, etc.
- ** Reclamation of used waste oil processing facilities.
- ** Sterilized and bio-active high strength lipid proteins.
- ** Animal rendering/slaughter and other animal generated waste substrates.
- ** Sanitary Landfill Leachate.
- ** Extreme concentrations of carbohydrate (sugars) – thermal reactors.
- ** Biological remediation of contaminated soils.
- ** Metals precipitation and recovery.
- ** Multiple species rendering complex wastewater systems.

Professional Profile
James T. Allred

Jim has extensive wastewater process management and R&D skills, including writing detailed process design/performance specifications, operation and maintenance manuals, spill prevention plans, permit compliance plans, new construction/compliance oversight and hands on system operations. Jim is also a classroom waste water instructor/speaker. Jim has been extensively utilized by several IACET accredited vocation schools as a contract certified CEU (Continuing Education Units) instructor for both wastewater and water technical courses.

He is qualified to instruct many “cross-over” disciplines including the following: Wastewater Microbiology, Wastewater Systems Design, Wastewater Systems Process Control, Wastewater Mathematics, Process Trouble Shooting, Wastewater Collections, Drinking Water Distribution and Drinking Water Purification and Treatment.

Jim has provided classroom instruction for employees of the United States Air Force (Edwards AFB), United States Navy (San Diego) and other governmental agencies such as the Department of the Interior, The Department of Transportation, various sanitary districts, public utility agencies, Municipalities, Oil and Mining Company’s, Native American Tribes, Water/Wastewater professional organizations and private contract operators throughout Western North America and in Taiwan. In 2004, Jim was invited and gave classroom technical sessions titled “*High Rate BOD/COD Removal in Extreme Environments*” to scholars and engineers employed by the Shenzhen Technical Institute, located in the Peoples Republic of China SEZ, Guangdong Province.

Jim has also published a comprehensive operator’s manual both in sanitary microbiology and public/private wastewater collections. These publications are now circulated worldwide.

In addition to the above experience, Jim’s company designed and operated a unique non-biological approach for processing sewage as compared to biologically treating it. More like a sewage processing machine and able to process large volumes of raw sewage while taking up a very small amount of space that was ideal for heavily populated urban areas of Beijing, PRC. Called the RTS (Rapid Treatment System), the RTS may prove to be a major break through in the processing of sewage focusing on the complete mitigation of blood borne pathogens typically found in Hospital generated wastewater.

Jim has held wastewater treatment plant operator’s certifications in the State of Oregon States of Alaska, Hawaii and Washington State.

Jim also served on the protocol review board helping to write Criteria C-9 testing protocol for the National Sanitation Foundation (NSF) located in Ann Arbor, Michigan.

Professional Profile
James T. Allred

Jim has also served as senior design engineer and president of Bio-Pure, Inc., President of Operation Services America Inc., Vice President of operations for Aqua-Tech International, Inc., President of Clark County Disposal Industries, General Manager for Culligan Industrial Water Conditioning of Hillsboro, Oregon. Jim was president and senior process design engineer for Advanced Treatment Systems of Washington, Inc., Environmental Marine Services, Inc, and provides services to Certified Operation Technologies, LLC. Jim is currently the waste water treatment plant supervisor for the City of Lebanon, Oregon.

Jim has been happily married for 50-years, has three grown children and ten grandchildren. Jim and his wife Darlene own a small horse ranch north of Scio, Oregon with their four horses and are actively showing AKC Greyhounds. Jim is an avid Denver, Broncos season ticket holder. 2021 marked ten straight years of attending Bronco home games.

PHOTOS



HALLOW FIBER MEMBRANE CASSETTE



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Albany-Millersburg WRF Composting Facility Tour
Presenter: Brian Stevens Title: AM WRF Treatment Plant Supervisor

Employer: City of Albany Address: 405 Davidson St. NE

City: Albany, OR State: OR Zip: 97321 Phone: 541-990-7749

Summary of Lesson content: Educational tour of the recently constructed composting facility at the AM WRF. Content will include composting basics, Amendment/Bulking material, compost operations, and dewatering

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: I am the current supervisor at the AM WRF and have been involved with the composting project since August

Education (High School, Upgrades, Colleges and Degrees): Graduated from Siuslaw High School (2004)
Graduated with an AAS in Water/WW Tech from LBCC (2009)

Professional Registration/Certification: WW Treatment Grade III, WW Collections Grade III, Water Treatment Level 1, Water Distribution Level 1

Related papers/instruction you have presented:
Title: Math For Operators Date: 03/2018 Event: AWWA Cascade to Coast short school
Title: Math For Operators Date: 03/2019 Event: AWWA Cascade to Coast short school

Professional Organizations/Activities:
PNCWA West Central Operators Section Date: April 2018 - Present
AWWA Cascade to Coast Section Date: April 2018 - April 2020

Course sponsor: AWWA / PNCWA Short School Albany, OR

Signature of Instructor: Brian Stevens Date: 1-4-2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Albany Vine St. WTP tour

Presenter: Scott LaRoque Title: Water Superintendent

Employer: City of Albany Address: 300 Vine St. SW

City: Albany State: OR Zip: 97321 Phone: 541 791 0175

Summary of Lesson content: Tour of Vine St. WTP highlighting treatment processes used, recent and upcoming facility upgrades.

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: water treatment processes and control, facility capital improvement projects + planning.

Education (High School, Upgrades, Colleges and Degrees): Crook County (OR) HS diploma, LBCC Associates General Science + Business, Eastern Oregon BS Business Admin.

Professional Registration/Certification: Oregon WWT IV #12312

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: AWWA / DNCWA

Signature of Instructor: [Signature] Date: 1/21/22

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Lebanon Water Treatment Plant Tour

Presenter: Chris Germond Title: Water Treatment Plant Supervisor

Employer: City of Lebanon Address: 925 S. Main St.

City: Lebanon State: OR Zip: 97355 Phone: 541-258-4274

Summary of Lesson content: Cascade to Coast Short School is having a tour at the City of Lebanon Water Treatment Plant. We will go over the various equipment, technologies and practices of the plant.

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: Worked in the Water Treatment Industry for over 12 years.

Education (High School, Upgrades, Colleges and Degrees): AAS Water/Wastewater Technologies

Professional Registration/Certification: Level IV Water Treatment Certification

Related papers/instruction you have presented:

Title: Lebanon Water Plant Tour Date: 4/15/2022 Event: Cascade to Coast Short School

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

AWWA PNCWA Cascade to Coast subsection Date: 2019

Date: _____

Course sponsor: N/A

Signature of Instructor: Chris Germond Date: 12/14/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Protecting the Collection System

Presenter: Doug Troyer Title: Owner

Employer: Underground Tech Address: 1901 Strawberry Ln

City: Lebanon State: OR Zip: 97355 Phone: 541-990-2791

Summary of Lesson content: _____

What to look for in storm or sanitary sewer systems and a look at technologies

available to protect and extend the life of your infrastructure.

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: Owner of Underground Tech for 3.5 years

Providing manhole rehab and point repairs for cities in the Willamete Valley and along the Coast.

Education (High School, Upgrades, Colleges and Degrees): high school

Professional Registration/Certification: Trained and became a certified applicator for applying manhole rehab products from Madewell Products Corp.

Related papers/instruction you have presented:

Title: Protecting the Collection System Date: 8-26-21 Event: OAWU Seaside

Title: Being Proactive with Manhole Rehab Date: 3-2020 Event: OAWU Sunriver

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: Underground Tech

Signature of Instructor:  Date: 1-5-21

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Submersible Pumps & Preventative Maintenance

Presenter: Dave Olson Title: Salesman

Employer: Xylem Address: 9625 SW Tualtin-Sherwood Rd

City: Tualatin State: OR Zip: 97062 Phone: 503-789-7330

Summary of Lesson

content: What makes up a pump and how to maintain it

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: 15 Years working at Xylem maintaining pumps and equipment

Education (High School, Upgrades, Colleges and Degrees): Associates in Process Instrumentation

Professional Registration/Certification:

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

Return Completed Form To: OESAC CEU COMMITTEE Email: info@oesac.org Date: _____
P.O. Box 577 Phone: 503-698-6486

Course sponsor: Canby, OR 97013-0577

Signature of Instructor: Dave Olson Date: 1/12/2022

DO NOT WRITE BELOW THIS LINE



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Large fuel spills And How do they Affect your water And wastewater Systems

Presenter: MARK LANDAU Title: Operations manager

Employer: City of Monmouth Address: 401 N. Hogan Rd.

City: Monmouth State: OR Zip: 97361 Phone: 503-838-2173

Summary of Lesson content: Fuel Spills in Monmouth. How THE water and wastewater systems were affected. Steps TAKEN, Testing, monitoring, Air Quality, Disposal, cleanup, DEQ involvement, STAKE holders, meetings held.

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: On Site for 19 days on such incident. in water/wastewater industry for 26+ years.

Education (High School, Upgrades, Colleges and Degrees): High School, some college, state certified water/wastewater, 26+ years of CEU classes.

Professional Registration/Certification: State certified ^{waste} water CII/TII
Water DJI/TI

Related papers/instruction you have presented:

Title: Same as above Date: Nov. 2021 Event: DAWU @ Spirit Mt.

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

PNCWA Past President, current Board member Date: June 2003 to current

Date: _____

Course sponsor: PNCWA - west central section

Signature of Instructor: Mark A. Landau Date: Feb 1, 2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: "LARGE FUEL SPILLS"

Presenter: MATT JOHNSON Title: MONMOUTH WATER OPS MANAGER

Employer: CITY OF MONMOUTH Address: 401 HOGAN RD

City: MONMOUTH State: OR Zip: 97361 Phone: 503 838 2173

Summary of Lesson content: "LARGE FUEL SPILLS" HOW DO THEY AFFECT YOUR WATER AND WASTEWATER SYSTEMS? FUEL IN COLLECTION SYSTEM, TREATMENT PLANT. FUEL IN UTILITY TRENCHES.

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: WATER OPERATIONS MANAGER FOR CITY OF MONMOUTH PURING A 14000 GALLON UNDERGROUND FUEL SPILL IN MONMOUTH

Education (High School, Upgrades, Colleges and Degrees): AMITY HIGH SCHOOL

Professional Registration/Certification: WATER TREATMENT AND DISTRIBUTION 2, WATER FILTRATION ENDORSEMENT, WASTEWATER TREATMENT AND COLLECTIONS 2, CROSSCONNECTION SPECIALIST

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: OAWU BOARD MEMBER Date: 2015 - PRESENT

Date: _____

Course sponsor: CITY OF MONMOUTH

Signature of Instructor: [Signature] Date: 2/2/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Cellular telemetry

Presenter: Tim Owens Title: VP

Employer: Correct Equipment Address: 300 S Redwood Street 135

City: Canby State: OR Zip: 97013 Phone: 503.582.0555

Summary of Lesson content: Introduction to cellular based telemetry. An overview of different types of radio architectures.

Navigation of how these systems work while detailing the pros and cons of each type of system.

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: I have worked in and with water utilities for over 13 years, helping utilities decide and troubleshoot various telemetry systems. We work with several suppliers that design and provide cellular based solutions.

Education (High School, Upgrades, Colleges and Degrees): PCC

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: What if Your Meters Could Hear the Leaks You Can't See Date: 11/17/21 Event: Umpqua Operator Conference

Title: What if Your Meters Could Hear the Leaks You Can't See Date: 10/27/21 Event: OAWU

Professional Organizations/Activities: _____ Date: _____

AWWA Member Date: Current

Course sponsor: _____

Signature of Instructor: Tim Owens Digitally signed by Tim Owens Date: 2021.12.03 14:47:08 -08'00' Date: 12/3/21

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Maximizing Return on Investment using Optimization (Case Study)

Presenter: Katie Maschmann Title: PE

Employer: HDR Address: 1050 SW 6th Avenue

City: Portland State: OR Zip: 97204 Phone: 503-423-3741

Summary of Lesson content: Johnson County Wastewater (KS) adopted optimization as a tool to prioritize investment needs in the collection system. Presentation will focus on what it takes to achieve a successful optimization

implementation based on lessons learned from multiple projects with JCW.

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: 9 years experience as a hydraulic modeler/planner

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Civil Engineering
Iowa State University, 2013

Professional Registration/Certification: Professional Engineer in the state of Missouri

Related papers/instruction you have presented:

Title: Asset Management: From Condition Assessment to Rehabilitation Plan Date: 2015 Event: KWEA/KSAWWA Annual Conference

Title: Data Management: System Characterization and Manhole Inspections Date: 2015 Event: Burns & McDonnell YP Summit

Professional Organizations/Activities: MWEA - Young Professionals Chair Date: 2017-2019

Date: _____

Course sponsor: _____

Signature of Instructor: *Kathryn K Maschmann* Date: 1/21/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The Changing World of Pretreatment

Presenter: Tanner Hartsock Title: Consultative Sales Representative

Employer: BioLynceus Address: PO Box 1499

City: Estes Park State: CO Zip: 80517 Phone: 970-586-3391

Summary of Lesson content: From FOG to H2S, Hefeweizen and more. What you should be doing to combat the changing world of wastewater regulations, how to protect your treatment facility, and what to expect moving forward.

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: 2+ years working hands on with wastewater professionals. Regular presenter at OAWU, ERWOW, and PNCWA.

Education (High School, Upgrades, Colleges and Degrees): University of Iowa, M. Sc., Geoscience, 2019

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Lagoon Management and Solids Handling Date: 2020, 2021 Event: ERWOW, OAWU

Title: The Changing World of Pretreatment Date: 2020, 2021 Event: ERWOW, OAWU

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 01/11/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The "Sewer Whisperer": Listen Closely, Your Sewer is Talking to you

Presenter: Brogan Quist Title: West Regional Manager

Employer: SmartCover Address: 2110 Enterprise Street

City: Escondido State: CA Zip: 92029 Phone: 760-207-8348

Summary of Lesson content: Summary of Lesson Content and Professional background sent with this document

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: In Sewer/Wastewater industry for 9+ years. Worked out in the field to install and maintain these systems

Education (High School, Upgrades, Colleges and Degrees): Bachelors of Science Degree from Westmont College

Professional Registration/Certification: CWEA, WEF Registrations

Related papers/instruction you have presented:

Title: Pinpointing and Prioritizing I&I impact with Climate Change Date: 9/14/2021 Event: PNCWA 2021

Title: Reaching new heights, monitoring in Stormwater Date: 10/20/21 Event: Sewer and Storm Summit, Northern CA 2021

Professional Organizations/Activities: PNCWA 2021 Date: 9/14/2021

CWEA AC 2021 (virtual), Tri-State 2021 Date: Spring and Fall 2021

Course sponsor: _____

Signature of Instructor: *Brogan Quist* Date: 12/20/2021

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486

OESAC Instructor Background Information

Summary of Lesson Content

This presentation reviews how customers can adopt unique and patented monitoring technology, which gives them data in the field that they did not have before. The level monitors mount directly on the manhole covers – thereby eliminating the need for a confined space entry - and use ultrasonic sensors to monitor water levels. The remote monitors effectively operate in two modes: Data Collection: by sending data to a secure customer website, and Alarming: by sending alarms directly to the customer.

Real-time remote water level monitoring can identify locations where a possible sewer system overflow (SSO) is developing and alarm these conditions before the overflow, allowing field staff to visit the site and perform corrective actions. Locating these problems prior to an SSO actually occurring has enabled users of this unique monitoring tool to pinpoint the causes of these blockages.

By placing the remote monitors at sites which are cleaned multiple times a year (due to FOG, roots, etc), water levels are wirelessly transmitted in real-time to the collection system operator, and the knowledge of these water levels and the lack of problems at these sites has enabled re-deployment of staff to other problem areas. This yields both ROI in time and money within one year of utilizing the system.

Remote real-time level monitors also provide a means to detect and correlate rain events with I&I. The ability to identify, quantify and track down sources of I&I is critical to minimizing problems with overflows during significant precipitation events. This system now uses automatic tools to track WHICH locations are experiencing higher levels, based on the rain event. The system can also monitor the TOTAL dynamic range between the bottom of the pipe to the very top of the manhole.

Utilities can also utilize these monitors to provide additional information before, during, or after large Capital Improvement Projects. This application can also yield high levels of ROI, or the chance to delay, defer, or eliminate costly CIP projects.

Finally, by utilizing this same set up, agencies can now monitor H2S levels in their sewer systems as well. This new feature can assist in odor studies, dosing, and overall health of the pipe/manhole.

Professional Background

Brogan has a Bachelors of Science Degree from Westmont College, located in Santa Barbara, CA. Brogan has over 10 years of experience in the wastewater and technology sector. Brogan first started in the industry by installing and maintaining monitoring devices in the field, beginning in 2008. He has completed over 500 site visits, troubleshooting, and installations. Currently, Brogan works with customers in the Western/Central region of the United states to help solve their challenges by providing remote monitoring systems. The Goal of SmartCover Systems is to assist wastewater utilities by helping them make informed decisions, based on data collected in the field.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Revolutionizing Sludge Dewatering

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way, Suite 112

City: Canby State: OR Zip: 97013 Phone: (503)420-8390

Summary of Lesson content: Why dewater your sludge? Find out how sludge can be dewatered and with what types of equipment. Each type of equipment has its positives and negatives. What are the essential features you want in your plant?

Maintenance, sludge consistency, or simplicity?

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: Municipal Dewatering Equipment

Education (High School, Upgrades, Colleges and Degrees): Diploma HS & Partial College

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Collections Plugging Solutions Date: 12/8/2021 Event: OAWU Hood River

Title Simple Industrial Pre-Treatment Date: 11/16/2021 Event: Oregon Operators Conference

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 12/10/2021

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486



Volunteer/Special Instructor Background and Information Form

Presentation Title: Collections Plugging Solutions

Presenter: Rich Owens Title: President

Date of Birth: 8/22/1974 Emergency Contact: (Name/Phone) Sue Owens / 503-740-5985

Employer: Owens Pump & Equipment Phone: 503-420-8390

Address: 138 S Hazel Dell Way #112

City/State/Zip Code: Canby, OR 97013

Summary of Lesson Content:

What types of items are being found in wastewater collections, and what types of pumps are available to prevent collections plugs. We discuss the advantages and disadvantages of each design, and concept.

Professional Background: (Note: A brief – 2 page maximum – résumé may be attached with the email in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.)

Primary Knowledge/Skills/Abilities related to this presentation:

25+ years in the pump business working for distributors and manufactures.

Education (High School, Upgrades, Colleges, Degrees) and Professional Registration/Certification:

1992 Graduate, Western University

Professional Registration/Certification:

Certified Level 2 Training Vogelsang Pumps, Barnes Pump Technical School

Related papers/instruction you have presented:

Title: Collections Plugging Solutions Date: 5/29/2019 Event: WWCPA

Title: Collections Plugging Solutions Date: 8/27/2019 Event: eWOW

Professional Organizations/Activities:

Date: _____

Date: _____

Course Sponsor: _____

Instructor Signature:  Date: 1/8/2020

Digitally signed by GPE Rich Owens
DN: cn=GPE Rich Owens,
Date: 2021.12.17 15:30:31 -0800

OESAC Approval:

Date Evaluated: _____

Date Evaluated: _____

By: _____

By: _____
Name Title

Approved: Yes No

Approved: Yes No

Rich Owens

Objective

To find a challenging sales position, utilizing abilities obtained through my experience, with the opportunity for professional growth based on performance.

Professional experience

2016 – Present Hugo Vogelsang Maschinenbau Ravenna, OH

Jr. Vice President of Sales and Marketing

- Responsible for North & South America for Industrial, Municipal, Agricultural and OEM Sales.
- Responsible managing 12 outside regional sales persons & inside Sales.
- Manage marketing department to advertise, new campaigns, website, and demo equipment.
- Support, train, recruit new and existing sales persons.
- Ongoing training of outside regional sales persons.
- Establish & Maintain training database for new employees.
- Administer Salesforce, CMD Insight, Smartsheet, and other company software.
- Customer Support / Technical Support reviews with Service department in ongoing field issues.
- Present & Prepare technical engineering presentations.

2012 – 2016 Hugo Vogelsang Maschinenbau Ravenna, OH

Director of Sales

- Responsible for North & South America for Industrial, Municipal, Agricultural and OEM Sales.
- Responsible managing 11 outside regional sales persons & inside Sales.
- Work with marketing department to advertise and create new campaigns.
- Support, train, recruit new and existing regional sales persons.
- Ongoing training of outside regional sales persons.
- Increase current client volume, and find new opportunities of revenue.

2006 – 2012 Hugo Vogelsang Maschinenbau Ravenna, OH

National Sales Manager

- Responsible for North America for Industrial, Municipal, Agricultural and OEM Sales.
- Responsible managing 5 outside regional sales persons & inside Sales.
- Work with marketing department to advertise and create new campaigns.
- Support, train, recruit new and existing regional sales persons.
- Support, train, recruit new and existing distributors and OEM's.
- Increase sales in existing distributor and OEM base & territory.
- Provide technical support to distributors, OEM, end users, and regional manager.
- OEM support, and research for new OEM accounts to use products.
- Increase current client volume, and find new opportunities of revenue.

1999 – 2006 Hugo Vogelsang Maschinenbau Ravenna, OH
OEM Manager / Western Regional Sales Manager

- Responsible for 13 Western states including British Columbia & Alberta Canada.
- Responsible for North America for all OEM accounts.
- Support and train new & existing distributors and OEM's.
- Increase sales in existing distributor and OEM base & territory.
- Provide technical support to distributors, OEM, and end users.
- Increased OEM business from \$100,000 to over \$2 Million in 5 years.

1997 – 1999 Familian Northwest/Queen Pump Portland, OR
Outside Sales Representative

- Responsible for Oregon, Southeast Washington, and Idaho.
- Maintain customer service and support.
- Increase sales in existing customer base.
- Responsible for a 30% increase the first 12 months.

1996 – 1997 Brentwood, Inc. Molalla, OR
Outside Factory Representative

- Responsible for Oregon and Southwest Washington house accounts.
- Maintain customer service and support.
- Increase sales in existing customer base.

1993 – 1996 Pump & Drilling Supply, Inc. Marysville, WA
Branch Manager / Outside Sales

- Responsible for Northwest Washington, Canada, and Alaska.
- Maintain customer service and support.
- Increase sales in existing customer base.
- Other responsibilities include inventory control, outside sales, and purchasing.

1988 – 1993 Pacific Drilling Supply, Inc. Wilsonville, OR
Warehouse Manager

- Responsible for inside sales, inventory control, customer service, shipping & receiving, and delivery.

Education

1992 – 1993 Western Oregon University
 Monmouth, OR General Studies

1989 - 1992 Tigard High School
 Tigard, Oregon Diploma / General Studies

- GPA: 3.85

Certificates

Vogelsang – Level 1 Technician

Interests and activities

Fishing, computers, and travel.

References

Available upon request.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: GIS AND ASSET MANAGEMENT FOR WASTE WATER

Presenter: JOHN BASTIANELLI Title: ENGINEERING TECH I

Employer: ROSEBURG URBAN SANITARY AUTHORITY Address: 1297 NE GRANDVIEW DR

City: ROSEBURG State: OR Zip: 97470 Phone: 541-672-1551

Summary of Lesson content: DATA COLLECTION, GIS, AND ASSET MANAGEMENT INTERGERATION

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: GIS/DATABASE ADMIN

Education (High School, Upgrades, Colleges and Degrees): AAS - CIVIL ENG + SURVEYING, UMPQUA COMMUNITY COLLEGE

Professional Registration/Certification: PIS, WW COLLECTIONS II

Related papers/instruction you have presented:

Title: N/A Date: _____ Event: _____

Title: N/A Date: _____ Event: _____

Professional Organizations/Activities: UMPQUA BASIN OPERATORS' SECTION - PRESIDENT Date: JAN 2022 - PRESENT

DOUGLAS COUNTY UTILITY COORDINATING COUNCIL - SECRETARY Date: JAN 2019 - PRESENT

Course sponsor: PNWS AWWA CASCADE TO COAST SUBSECTION

Signature of Instructor: [Signature] Date: 1-7-2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Pump Station Rehabilitation on a Budget

Presenter: James V. Baird Title: General Manager

Employer: Roseburg Urban Sanitary Authority Address: 1297 NE Grandview Drive

City: Roseburg State: OR Zip: 97470 Phone: 541-672-1551

Summary of Lesson content: Evaluation of existing pump station, identification of operational deficiencies, identification of safety concerns. Development of plans for improvements needed, establish a sequence for construction, produce a work plan and method to complete the improvements and provide a detailed system to install all of the necessary components. This class will help students how an improvement of this scope can be done in house as opposed to hiring a contractor to complete the project.

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: Ten years as the Technical Sales Manager and Senior Applications Engineer with Romtec Utilities, designing, installing and commissioning pump stations. Eight years Engineering & Ops Manager with RUSA, overseeing Engineering Department.

Education (High School, Upgrades, Colleges and Degrees): Associate Civil Engineering Technology Umpqua Community College

Professional Registration/Certification: OR Grade III Wastewater Collection System Operator, OR Grade II Wastewater Treatment Operator

Related papers/instruction you have presented:

Title: Pump Station Rehabilitation on a Budget Date: 8-15-18 Event: 2018 Oregon Operators Conference

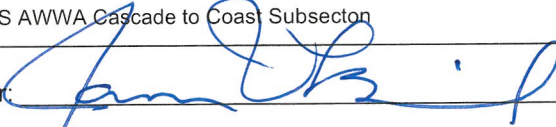
Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

PNCWA Past President, UBOS-PNCWA Section Past President, Member OR ACWA, Member SDAO Date: 1/7/2022

Date: _____

Course sponsor: PNWS AWWA Cascade to Coast Subsector

Signature of Instructor:  Date: 1/7/2022

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Course Title:

Pump Station Rehabilitation on a Budget

Instructors:

James Baird, General Manager Roseburg Urban Sanitary Authority

Jade Mecham, Project Manager Jacobs

This course will follow a pump station rehabilitation project that Roseburg Urban Sanitary Authority and Jacobs completed on a 1970's vintage installation.

The course will include the following topics:

Evaluation of the existing pump station:

- Identification of operational deficiencies
- Review of safety concerns
- Evaluate the site configuration that limits maintenance activities

Development of plans for the identified improvement for the station

Produce a work plan and method to complete the improvements while limiting the down time of the pump station

Provide a detailed system to install all the necessary components.

The attendees will be provided with a orderly method to evaluate improvements to pump stations that may be able to be completed in house as apposed to hiring an outside contractor.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Pipe Assessment 101

Presenter: Jim Brown Title: Sales Representative

Employer: True North Equipment Address: 3150 SE Century Blvd., Suite 100

City: Hillsboro State: OR Zip: 97123 Phone: 503-319-8488

Summary of Lesson content: This class discusses some of the history of sanitary sewer, reasons for inspection and

assessment, and methods and terminology used in CCTV inspection as well as a brief discussion into NASSCO and

PACP assessment.

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 present 15 years experience in sanitary sewer cleaning and
ation:

inspection, 13 year member of Oregon APWA Education Committee.

Education (High School, Upgrades, Colleges and Degree Specialized training with reporting software, attended
s):

NASSCO training.

Professional Registration/Certification: none

Related papers/instruction you have presented:

Title: Phased Assessment for Sewer Sys Date: 11/17/21 Event: UBOS Conference, Roseburg, OR.

Title Pipe Assessment 101 Date: 9/22/21 Event: AWWA Virtual Conference

Professional Organizations/Activities: APWA Washington Fall Conference Date: 9/2019

Washington Association of Water & Sewer Districts Date: 9/2019

Course sponsor: _____

Jim Brown

Digitally signed by Jim Brown
DN: cn=Jim Brown, c=US, o=True North Environmental
Equipment, ou=Sales, email=jbrown@truenorthenviro.com
Date: 2020.01.07 10:24:18 -0800

Signature of Instructor: _____ Date: 12/16/21

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: On-site generation of sodium hypo

Presenter: Dave Bobbett Title: Account Manager

Employer: Whitney Equipment Address: 2501 SE Columbia way, Ste 300

City: Vancouver State: WA Zip: 98661 Phone: 360-558-0784

Summary of Lesson

content: Disinfection Product Overview, System Design Overview, Project Considerations, Redundancy, maintenance needs, case stories and Q&A

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: 20 years in water and wastewater, 7 years working with on-site

Education (High School, Upgrades, Colleges and Degrees): Many training courses completed in water and wastewater

Professional Registration/Certification:

Related papers/instruction you have presented:

Title: Submersible Pump maintenance Date: 2/24/21 Event: Washington Operators Workshop

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

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P.O. Box 577 Phone: 503-698-6486

Course sponsor: Canby, OR 97013-0577

Signature of Instructor: Dave Bobbett Date: 1/4/2022

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Developing operator decision making skills

Presenter: Mark Walter Title: Operations and Maintenance Specialist

Employer: Waterdude Solutions Address: 13290 Squire Drive

City: Oregon City State: OR Zip: 97045 Phone: 971-413-4126

Summary of Lesson content: A review of decision-making concepts and how they apply to O&M of wastewater systems.

Discussion on the importance of using a measured approach to decision making. Attendees will be introduced to the OODA loop decision making method as a way to accelerate decision making, particularly in emergency situations.

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: See attached resume.

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

Professional Registration/Certification: See attached resume.

Related papers/instruction you have presented:

Title: Practical Tools for Ops Improvement Date: 4/16/19 Event: PNCWA AWWA Cascade to Coast Shrt Schl

Title: CMMS Program Development Date: 3/27/19 Event: ORWEF Water Environment School

Professional Organizations/Activities:

Pacific Northwest Pollution Control Association (PNCWA)- Member/ Past President Date: Current

PNCWA;Plant Operations and Maintenance Committee Chair Date: Current

Course sponsor: Waterdude Solutions, LLC

Signature of Instructor: *Mark Walter* Date: 08/16/21

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Developing Operator Decision Making Skills

Approved 0.2 CEUs, OESAC #4283

Summary

The complexity of wastewater systems and importance of environmental protection requires a measured approach to operational decision making. This training will highlight how decision-making applies to the operation and maintenance of these systems. Attendees will be introduced to the Observe, Orient, Decide, Act (OODA) decision making method to accelerate decision making, particularly in emergency situations. Attendees will be guided through various scenarios to establish an understanding of the OODA loop concepts.

Outline

Introduction (5 min)

Goals and Objectives (5 min)

- Understand how experience effects decision making.
- Highlight the importance of decision making in emergency scenarios.
- Support the strategy of decision making at the scene by the first responder.
- Learn how to practice decision making through experiential training scenarios.
- Understand how the OODA loop can accelerate decision making.

Operator Training and Conditioning (10 min)

- Experience vs education
- Large facility vs small
- Tenure at facility vs tenure at other facilities
- Maintenance vs Operations
- Manager vs Operator
- Use of Data

Decision Making (20 min)

- Framework for Decision Making
- Keys to Decision Making
- Type of Decisions
- Problem Solving Skills vs Decision Making
- Barriers to Decision Making

Introduction to the OODA Loop (30 min)

- History and Use of the OODA Loop
- Elements of the OODA Loop
- How to OODA Well
- Core Attributes of the OODA Loop

Developing Operator Decision Making Skills.

- How to Apply the OODA Loop

Session Break (10 min)

Wastewater System Response (70 min)

- Importance of Safety
- Response Scenarios
 - Collection System Scenario
 - Collection System Scenario 2
 - Pump Station Scenario
 - Treatment Plant Scenario 1
 - Treatment Plant Scenario 2

Debrief Forum (10 min)

- Observations
- Learning Takeaways

Total Session Time 150 minutes (2.5 hours)

Mark D. Walter
13290 Squire Drive, Oregon City, Oregon 97045
971-413-4126
markw@waterdudesolutions.com

August 2021

PROFILE

Mr. Walter has an extensive and varied work history ranging from small system operation to management positions over advanced wastewater treatment facilities. He is well versed on modern operations and maintenance methods and is an effective communicator. Mr. Walter draws on over 30 years' experience to orient quickly and facilitate action.

In 2016 Mr. Walter founded Waterdude Solutions a consulting company focused on providing technical support to wastewater treatment facilities. Company information can be found at www.waterdudesolutions.com

PROFESSIONAL EXPERIENCE

Operations Maintenance and Management Specialist, Owner

Waterdude Solutions, LLC

- Interim management and system supervision services.
- Asset condition and operational status assessment.
- Repair & refurbishment project planning and support.
- Wastewater program evaluation, development, and training.
- Operations and maintenance technical review during design.

Operations Manager

Oak Lodge Sanitary District, Oak Grove Oregon

- Operations coordinator for \$60M CM/GC wastewater improvement project.
- Implementation of Lucity CMMS and HACH WIMS programs.
- Developed and implemented plans for industrial pretreatment and FOG operations.
- Developed workflows and performance monitoring practices.
- Created and updated standard operating procedures for new and existing systems.

Maintenance Division Manager

Clean Water Services (CWS), Hillsboro, Oregon

- Responsible for reimplementation of CMMS and developing connection to 5-year CIP.
- Led development of asset naming conventions and work priority guidelines.
- Identified required critical spares and developed budget for procurement.
- Defined and updated predictive maintenance and condition assessment protocols.
- Created measurement systems for maintenance and reliability performance.

Manufacturer's Equipment Representative

Beaver Equipment Specialty Company, Inc., Vice President

Goble Sampson Associates, Sales Engineer

- Evaluated feasibility of various equipment applications.
- Facilitated equipment procurement options with owners and consultants.
- Developed comparative equipment lifecycle cost reports for evaluation.
- Performed equipment commissioning and performance testing services.

Project Manager

CH2MHill, Operations Management International, Inc
City of Lebanon, City of Philomath and Freeway Properties

- Supervision and management of two water and three wastewater treatment systems.
- Identified and coordinated improvement projects between CH2MHill and clients.
- Performed offsite O&M evaluations and support of other CH2MHill facilities.

Operations Supervisor

CH2MHill, Operations Management International, Inc
Gresham Wastewater Treatment Plant

- Coordinated operations and maintenance activities.
- Developed O&M budgets, programs and provided staff training.

Wastewater Treatment Plant Operator

- Clackamas County Department of Utilities, Oregon City, Oregon
- Orange County Sanitation District, Fountain Valley, California
- Michelson Water Reclamation Plant, Irvine, California

CERTIFICATION

- Wastewater Treatment System Operation, Oregon Grade IV #7091
- Wastewater Collection System Operation, Oregon Grade IV #12219
- Oregon Emerging Small Business Certification # 10792 Waterdude Solutions, LLC.

EDUCATION

Clackamas Community College and Chemeketa College, Oregon

- Water Quality, Management, Human Relations, and Business Law

Professional Development

- EPA Advanced Asset Management Training; Managing Multiple Projects; Conflict Resolution; Effective Negotiating; Project Management; Coaching and Teambuilding; Building Better Training Programs; Emergency Response Planning; Leading with Emotional Intelligence; Performance Management; Technology of Participation (ToP) Facilitation; Taylor Protocols Core Value Index (CVI) facilitation.

REGIONAL LEADERSHIP

- Presenter and trainer at regional and national technical and management conferences.
- Pacific Northwest Clean Water Association (PNCWA: Past President, Operations Challenge Chair, Awards Committee Chair, Plant Operations and Maintenance Committee Chair, Oregon Region Director; Lower Columbia Section President.
- Past Director, Chair of Oregon Water Education Foundation Water Environment School.

VETERAN

United States Army

- 82nd Airborne Division, Paratrooper/Infantryman
- 104th Training Brigade, Infantry Patrolling Instructor



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Reduce Operating Costs with Energy Efficiency

Presenter: Lisa Green, PE and Kelson Redding, PE Title: Energy Efficiency Project Engineer

Employer: Energy 350 (working with Energy Trust) Address: 1033 SE Main St. Suite 1

City: Portland State: OR Zip: 97214 Phone: 971-544-7211

Summary of Lesson content: A common misconception is that energy is a fixed cost. This presentation will highlight the biggest energy users common in wastewater treatment plants and present ideas to help reduce operating costs. In addition, we will show you how to get utility incentives for energy efficiency projects.

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: As a Program Delivery Contractor for Energy Trust of Oregon's Production Efficiency Program, Energy 350 has experience working with dozens of wastewater treatment plants in Oregon on energy efficiency projects. Bios attached.

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: Lisa and Kelson are both licensed Oregon Professional Engineers

Related papers/instruction you have presented:

Title: Reduce Operating Costs with Energy Efficient Improvements Date: 2019 & 2020 Event: ORWEF Water Environment School 2019 /2020

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: Energy Trust of Oregon

Signature of Instructor: [Signature] Date: 1/10/2022

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: How do I know if my Treatment Plant is working?

Presenter: MAX HILDEBRAND Title: Operations Supervisor

Employer: City of Corvallis Address: PO Box 1083

City: Corvallis State: OR Zip: 97324 Phone: 541-754-1757

Summary of Lesson content: To help operators understand process controls, different tools for evaluating the process & and how the processes effect other processes.

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: 31 years of hands on experience with wastewater treatment plants.

Education (High School, Upgrades, Colleges and Degrees): 2 yr. degree in water/wastewater Technology (LBCC) Bach. of Science degree Linfield College.

Professional Registration/Certification: wastewater IV Oregon, wastewater IV Washington, wastewater IV California

Related papers/instruction you have presented:
Title: Building Bridges Date: 2019 Event: PNCWA Conference
Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: PNCWA, WEF satan boards of both Date: _____
Date: _____

Course sponsor: _____

Signature of Instructor: [Signature] Date: 1/6/2022

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Max H. Hildebrand

Education

BS Business Management, Linfield College, 2003

AS Associate of Applied Sciences, Water/Wastewater Technology, Linn-Benton Community College, 1992

AS Associate of Liberal Arts, St. Leo College, Ft. Eustis, Virginia, 1990

Certifications

Level IV Certification in Wastewater Treatment, State of Oregon. Certification # 7447 issued 7/95

Level IV Certification in Wastewater Treatment State of Washington Certification # 8321

Level IV Certification in Wastewater Treatment, State of California. Certificate # 44195

Professional Associations

Pacific Northwest Clean Water Association, 2001 to present

Water Environment Federation, 2004 to present

Mr. Hildebrand specializes in the operation and maintenance of water and wastewater treatment systems. He has over 31 years of experience including more than 20 years of hands-on operational experience at four Class IV Wastewater Treatment Facilities in Oregon. His experience also includes: Writing Technical Documents that include O&M Manuals, SOPs, APES, Staffing Evaluations, Unit Process Operating Strategies, and Treatment Plant Audits.

Recently, Max has worked for over two years in a \$2 B CIP Program for San Jose California. He was engaged in helping to prepare the O&M Staff as they move forward on 36 different projects effecting the Regional Wastewater Facility.

His experiences also include Start up and Commissioning services, performing Condition Assessments, conducting Operability Reviews of complex drawings and 3D Models, providing troubleshooting of wastewater systems and optimizing facility processes.

Max has operated four different Wastewater Treatment Facilities, including a Trickling Filter/Activated Sludge Process, a HPO Activated Sludge Facility, and two Activated Sludge Facilities. All four facilities utilized Anaerobic Digester processes.

Additional experiences include completing a Reclaimed Water Audit for the Eugene-Springfield Water Pollution Control Facility, the design-build process for Influent Pump Station Seal Water and Air Supply Systems, design-build for Waste Activated Sludge Pump Station, and design-build process for piping modification/control valves/vault placement for Anaerobic Digested Sludge systems for the City of Corvallis.

He also managed the Brown and Caldwell Operations Services Team for the Pacific Northwest and Hawaii, as well as being the National Leader of the Operations/Management Community of Practice (CoP) for Brown and Caldwell.

Lastly, Max has sat on the Pacific Northwest Clean Water Association (PNCWA) Board of Directors as well as

having been a Water Environment Federation (WEF) House of Delegates member.

Plant Operations

- Operational lead for the City of Grants Pass Operational Strategies Initiative.
- Operational lead for the City of Grants Pass migration to the NetDMR electronic regulatory reporting requirement.
- Operations lead in the Clean Water Services Actiflo™ O&M/ APE Project.
- Task lead for the SJCWTP Strategic Initiatives for Albuquerque Bernalillo County Water Utility Authority (ABCWUA), New Mexico.
- Operational lead for Wastewater Treatment Plant Audits for California American Water. The treatment plants included: Indian Springs, Las Palmas, Carmel Valley Ranch, and Pasadera.
- Task lead for the City of Modesto, California's Staffing Evaluation for the Sutter Avenue and Jennings Road Wastewater Treatment Facilities.
- Task lead for the City of Sunnyvale, California's Wastewater Treatment Plant Staffing Evaluation.

Startup and Commissioning Services

- Performed startup and commissioning for the Morenci Water Treatment Plant in Morenci, Arizona.
- Performed startup and commissioning for the Design Build Biosolids Management Program for DC Water, Washington DC.
- Performed Progressive Design Build Construction Manager/ General Contractor (CMGC) startup and commissioning Influent Pump Station and Pretreatment Structure, Metropolitan Wastewater Management Commission, Eugene/Springfield, Oregon.
- Developed startup and commissioning specifications, and language for the Construction Administration Plan for the San Jose Capital Improvement Program.

Max H. Hildebrand

Electronic Operations and Maintenance Manuals

- Prepared an OMSConnect Electronic Operations and Maintenance Manual (EOM) for the Lake Oswego/Igard Water Program.
- Prepared an OMSConnect EOM LOIS Project for the City of Lake Oswego Oregon.
- Prepared a Wastewater Treatment Plant Operation and Maintenance (EOM) Manual for Three Rivers Longview/Kelso, Washington.
- Prepared an EOM for the Central Wastewater Treatment Facility, City of Tacoma, Washington.
- Prepared an EOM for the Alderwood Water and Wastewater District, Washington.

Operations and Maintenance Manuals

- Prepared an O&M Manual for the City of Redmond, Oregon's Wastewater Treatment Facility.
- Prepared an O&M Manual for the Odor Control System for Metropolitan Wastewater Management Commission (MWMC), Eugene-Springfield, Oregon.
- Prepared an O&M Manual for the Linneman Pump Station, City of Gresham, Oregon.
- Prepared an O&M Manual for Foothills Road Pump Station for the City of Lake Oswego, Oregon.

Technical Reports

- Prepared Sampling Analysis Plan for the City of Grants Pass WRP.
- Prepared Unit Process Operating Strategies for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared Unit Process Isolation Analysis for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared O&M Data, Work Sequence and Restriction, Training, Testing, and Startup Specifications for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared
- Prepared the Laboratory Testing Evaluation for Clackamas County Water Environment Services, Oregon.
- Performed an Operational Audit for the Starlink Facility for the City of Portland, Oregon.
- Prepared a Plan of Operation for the Alderwood Water and Wastewater District, Washington.

Owners Representative

- Served as San Jose-Santa Clara Regional Wastewater Facility CIP Operations Coordinator for the San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Served as San Jose-Santa Clara Regional Wastewater Facility CIP Operations and Maintenance Liaison for the San Jose-Santa Clara Regional Wastewater Facility, San Jose California.

- Served as Owner's Representative for the Wilsonville Wastewater Treatment Facility, City of Wilsonville.
- Served as Owner's Representative for the Lake Oswego, Oregon Water and Wastewater Systems.
- Provided project management for DC Water, Washington, DC
- Served as Owner's Representative for the SCADA System Upgrade for the City of Newport, Oregon.
- Provided Program Management services for San Jose California Capital Improvement Program.

Operability Design Review

- Grants Pass Wastewater Restoration Plant Upgrade, Grants Pass Oregon.
- Influent Pump Station and Pretreatment Structure, Metropolitan Wastewater Management Commission, Eugene/Springfield, Oregon.
- Odor Control, Metropolitan Wastewater Management Commission (MWMC), Eugene-Springfield, Oregon.
- Biosolids Management Program, DC Water, Washington DC.

Troubleshooting

- City of Wilsonville, Headworks and Barscreen issues.

Awards

2002 Oregon Operator of the Year
2006 WEF Hatfield Award Recipient

Presentations:

- March 2017 AWWA Coast to Cascade Short School "Math for Operators, O&M Project Engagement"
- August 2014 Oregon Region Operators Conference "Math for Operators, "There is an App for that."
- May 2013 WEA of Utah: "There is an App for that."
- March 2013 Cascade to Coast Subsection Short School: Math for Operators.

Max H. Hildebrand

- March 2012 Clackamas Short School: O&M Manuals: Good-Better-Best.
- March 2011 Cascade to Coast Subsection Short School: “The Wastewater Way.”

Publications:

02/2013 WE&T Magazine: What every operator should know about Standard Operating Procedures (SOPs).



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The Future of Biosolids

Presenter: Tanner Hartsock Title: Consultative Sales Representative

Employer: BioLynceus Address: PO Box 1499

City: Estes Park State: CO Zip: 80517 Phone: 970-586-3391

Summary of Lesson content: Sustainable biosolids handling strategies are becoming increasingly difficult to develop. Even landfill applications are uncertain: recently, the state of California banned the use of biosolids as an alternative landfill cover. Now more than ever, WRRFs are considering innovative, even novel technologies for managing their biosolids. As regulations become more stringent, the time to consider new technologies for biosolids reduction is now.

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: 2+ years working hands on with wastewater professionals. Regular presenter at OAWU, ERWOW, and PNCWA.

Education (High School, Upgrades, Colleges and Degrees): University of Iowa, M. Sc., Geoscience, 2019

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Lagoon Management and Solids Handling Date: 2020, 2021 Event: ERWOW, OAWU

Title: The Changing World of Pretreatment Date: 2020, 2021 Event: ERWOW, OAWU

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 01/11/2022

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Albany - Millersburg WRF Compost Upgrade Project

Presenter: Brian Stevens Title: AM WRF Treatment Plant Supervisor

Employer: City of Albany Address: 405 Davidson St. NE

City: Albany, OR State: OR Zip: 97321 Phone: 541-990-7749

Summary of Lesson content: This lesson will chronicle the history behind the need for a composting project, compost facility construction, facility start-up, and composting basics.

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: I am the current supervisor at the AM WRF and have been involved with the composting project since August

Education (High School, Upgrades, Colleges and Degrees): Graduated from Siuslaw High School (2004)
Graduated with an AAS in Water/WW Tech from LBCC (2009)

Professional Registration/Certification: WW Treatment Grade III, WW Collections Grade III, Water Treatment Level 1, Water Distribution Level 1

Related papers/instruction you have presented:

Title: Math For Operators Date: 03/2018 Event: AWWA Cascade to Coast short school

Title: Math For Operators Date: 03/2019 Event: AWWA Cascade to Coast short school

Professional Organizations/Activities: PNCWA West Central Operators Section Date: April 2018 - Present

AWWA Cascade to Coast Section Date: April 2018 - April 2020

Course sponsor: AWWA / PNCWA Short School Albany, OR

Signature of Instructor: Brian Stevens Date: 1-4-2022

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: A Portfolio Approach to Temperature Compliance

Presenter: Todd Miller Title: Environmental Services Supervisor

Employer: City of Springfield Address: 225 Fifth Street

City: Springfield State: OR Zip: 97477 Phone: 541-736-7137

Summary of Lesson content: Development of a portfolio of mitigation options rather than a single solution for wastewater compliance needs like temperature can result in more cost effective, more environmentally beneficial, and more community beneficial solution.

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: Watershed restoration and management; contaminant source, fate, and transport; regulatory compliance.

Education (High School, Upgrades, Colleges and Degrees): BS Biology-Geology
MS Environmental Studies

Professional Registration/Certification: Oregon Registered Geologist #G2032

Related papers/instruction you have presented:

Forging your Path to Compliance:

Title: Strategies to Manage Complex Permit Issues Date: 03/18/2021 Event: ACWA Water Quality Committee Workshop

Title: Poplar for Wastewater and Biosolids Management Date: 11/2018 Event: WSU Extension Publication

Professional Organizations/Activities:

Oregon Association of Clean Water Agencies Date: 2015-2022

Date: _____

Course sponsor: AWWA / PNCWA

Signature of Instructor: _____ Date: 01/03/2022

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"B"

Instructor Background And Information Form

Thank you for filling out this form (1.0 HRS)

Presentation Title: ^{"A"} Power of MATH Converters / SNAP SHOT - 1.0 HRS / MBR Process membrane operations

Presenter: Jim (James) ALLRED Title: Waste Water Treatment Supervisor

Employer: City of Lybanon Address: 925 MAIN STREET (CITY HALL)

City: Lybanon State: ORE Zip: 97355 Phone: 541-258-4993 (WWTP)

Summary of Lesson content: ^{"A"} Waste Water Process CONTROL Relevance To Plant operations.

^{"B"} Process CONTROL USING submerged hollow fibre Membranes. IN elevated concentrations of Bio-mass.

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. SEE ATTACHED

Primary Knowledge/Skills/Abilities related to presentation: 48 years Design, Manufacturing, operations of various process, including AS, MBR & Fixed Film Reactors.

Education (High School, Upgrades, Colleges and Degrees): 12 +

Professional Registration/Certification: Waste Water III, FORMER President & Senior Engineer For Advanced Treatment Systems (ATS) and Certified Operation Technologies LLC.

Related papers/instruction you have presented:

Title: MARINE ONBOARD W.W.T.F Date: MARCH Event: Clackamas 2013 Short School

Title: SENIOR INSTRUCTOR Date: Event: 15 years "Operation Certification TRAINING" OCT -

Professional Organizations/Activities: W.E.F. Date: CURRENT

Course sponsor:

Signature of Instructor: James J. Allred Date: NOV 17, 2021

DO NOT WRITE BELOW THIS LINE

Date Evaluated: By: Approved: Yes No

Return Completed Form To: OESAC CEU COMMITTEE P.O. Box 577 Canby, OR 97013-0577 Email: info@oesac.org Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Physical/Biological Treatment High Strength Abattoir Wastes

Presenter: Jim ALLRED Title: Senior Process Engineer

Employer: COT Address: P.O. Box 653

City: Scio State: OR Zip: 97374 Phone: 503-715-6825

Summary of Lesson content: Development of Advanced Approach Treatment Process Capable of meeting STRINGENT OREGON DEQ Discharge Permit Limits -

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: System Design & Plant Supervisor.

Education (High School, Upgrades, Colleges and Degrees): SEE ATTACHED

Professional Registration/Certification: Grade III - 13 years

Related papers/instruction you have presented:

Title: MARINE SANITATION SYSTEMS Date: MARCH 2013 Event: Clackamas Short School

Title: Senior Instructor Date: 15 years Event: Operation Certification Training

Professional Organizations/Activities: W.E.F. Date: ON going
NQHA Date: ON going

Course sponsor: BRIAN STEVENS

Signature of Instructor: James Y. Allred Date: JAN 13, 2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



CERTIFIED OPERATION TECHNOLOGIES, LLC.

P.O. BOX 653

Scio, Oregon 97374

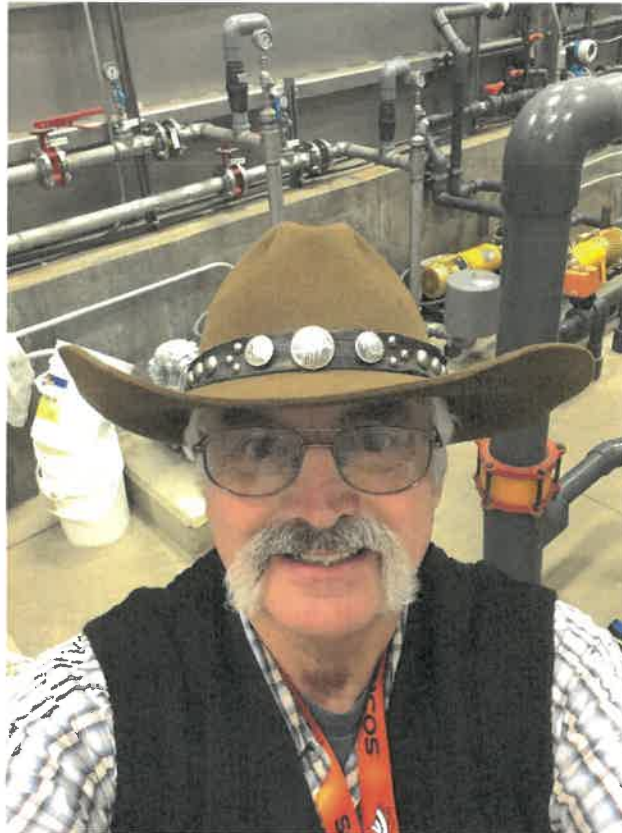
Phone: (503) 715-6825

Email: certopstech@gmail.com

Email: jallred@ci.lebanon.or.us

PROFESSIONAL PROFILE

“Helping to Help Others”



James T. Allred (Jim)

Jim Allred has been working in the wastewater industry for 49 years providing treatment solutions associated with complex wastes in various types of domestic and industrial flow streams. In many cases finding solutions resulted in generating new treatment approaches with applied technology. Jim is self-taught within the wastewater industry and over the past 49 years has attended multitudes of technical classes and seminars around the world but initially installed treatment facilities in the Aleaska Pipeline work camps after serving four years in the Navy during Vietnam.

Professional Profile
James T. Allred

Working with regulatory agencies, consulting engineers, plant managers, city managers, tribal councils, etc, Jim has personally designed, built, and supervised operations for over 375 secondary and tertiary - domestic and industrial wastewater treatment systems that have been installed in 27 U.S. states and 7 foreign countries. Many of these projects have been located in the Western United States particularly in Washington State, State of Alaska, State of Hawaii and in the State of Oregon.

Jim's specialized in design & operation of complex suspended growth systems such as suspended growth activated sludge, aerated ponds, RBC's and Sequencing Batch Reactors (SBR). Over the last 10 years, Jim's company designed, manufactured and operated varying types of submerged hollow fiber, Membrane Bio-Reactor's (ultrafiltration processes) and is one of the few operators significantly experienced operating differing types of hollow fiber submerged membrane technologies.

This also includes advanced Nitrification/Denitrification (conversion) of nitrates and in-situ generated nitrates from industrial waste waters. Some of these difficult projects required the introduction of select carbon sources to promote biological nitrate removal in previously sterilized wastewater flow streams.

Jim has designed and supervised complex research and development (R&D) programs. One project in particular for ALCOA that involved biological degradation of high Aeroclor PCB's with cooperation provided EPA Region X. Though that technology it was also discovered how to remove and isolate PCB's from contaminated soils.

Jim has been extensively involved in the treatment of high-strength commercial and industrial wastewater including but not limited to the following "high strength" applications:

- ** Complex hydrocarbon structures such as Ethanol, BTEX, TCE³, PCP, etc.
- ** Reclamation of used waste oil processing facilities.
- ** Sterilized and bio-active high strength lipid proteins.
- ** Animal rendering/slaughter and other animal generated waste substrates.
- ** Sanitary Landfill Leachate.
- ** Extreme concentrations of carbohydrate (sugars) – thermal reactors.
- ** Biological remediation of contaminated soils.
- ** Metals precipitation and recovery.
- ** Multiple species rendering complex wastewater systems.

Professional Profile
James T. Allred

Jim has extensive wastewater process management and R&D skills, including writing detailed process design/performance specifications, operation and maintenance manuals, spill prevention plans, permit compliance plans, new construction/compliance oversight and hands on system operations. Jim is also a classroom waste water instructor/speaker. Jim has been extensively utilized by several IACET accredited vocation schools as a contract certified CEU (Continuing Education Units) instructor for both wastewater and water technical courses.

He is qualified to instruct many “cross-over” disciplines including the following: Wastewater Microbiology, Wastewater Systems Design, Wastewater Systems Process Control, Wastewater Mathematics, Process Trouble Shooting, Wastewater Collections, Drinking Water Distribution and Drinking Water Purification and Treatment.

Jim has provided classroom instruction for employees of the United States Air Force (Edwards AFB), United States Navy (San Diego) and other governmental agencies such as the Department of the Interior, The Department of Transportation, various sanitary districts, public utility agencies, Municipalities, Oil and Mining Company’s, Native American Tribes, Water/Wastewater professional organizations and private contract operators throughout Western North America and in Taiwan. In 2004, Jim was invited and gave classroom technical sessions titled “*High Rate BOD/COD Removal in Extreme Environments*” to scholars and engineers employed by the Shenzhen Technical Institute, located in the Peoples Republic of China SEZ, Guangdong Province.

Jim has also published a comprehensive operator’s manual both in sanitary microbiology and public/private wastewater collections. These publications are now circulated worldwide.

In addition to the above experience, Jim’s company designed and operated a unique non-biological approach for processing sewage as compared to biologically treating it. More like a sewage processing machine and able to process large volumes of raw sewage while taking up a very small amount of space that was ideal for heavily populated urban areas of Beijing, PRC. Called the RTS (Rapid Treatment System), the RTS may prove to be a major break through in the processing of sewage focusing on the complete mitigation of blood borne pathogens typically found in Hospital generated wastewater.

Jim has held wastewater treatment plant operator’s certifications in the State of Oregon States of Alaska, Hawaii and Washington State.

Jim also served on the protocol review board helping to write Criteria C-9 testing protocol for the National Sanitation Foundation (NSF) located in Ann Arbor, Michigan.

Professional Profile
James T. Allred

Jim has also served as senior design engineer and president of Bio-Pure, Inc., President of Operation Services America Inc., Vice President of operations for Aqua-Tech International, Inc., President of Clark County Disposal Industries, General Manager for Culligan Industrial Water Conditioning of Hillsboro, Oregon. Jim was president and senior process design engineer for Advanced Treatment Systems of Washington, Inc., Environmental Marine Services, Inc, and provides services to Certified Operation Technologies, LLC. Jim is currently the waste water treatment plant supervisor for the City of Lebanon, Oregon.

Jim has been happily married for 50-years, has three grown children and ten grandchildren. Jim and his wife Darlene own a small horse ranch north of Scio, Oregon with their four horses and are actively showing AKC Greyhounds. Jim is an avid Denver, Broncos season ticket holder. 2021 marked ten straight years of attending Bronco home games.

PHOTOS



HALLOW FIBER MEMBRANE CASSETTE



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Utility Operator Math

Presenter: Brian Stevens Title: AM WRF Treatment Plant Supervisor

Employer: City of Albany Address: 405 Davidson St. NE

City: Albany, OR State: OR Zip: 97321 Phone: 541-990-7749

Summary of Lesson content: This course will cover basic math and hydraulic skills used by water /ww plant operators. Topics include unit conversion, Area & volume, Dimensional Analysis, chemical dosing, Flow, and velocity.

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: Instructor for four years at LBCC teaching computation in the Water, Environment, & Tech. Dept.

Education (High School, Upgrades, Colleges and Degrees): Graduated from Siuslaw High School (ca) Graduated with an AAS in Water/WW Tech from LBCC (2009)

Professional Registration/Certification: WW Treatment Grade III, WW Collections Grade III, Water Treatment Level 1, Water Distribution Level 1

Related papers/instruction you have presented:

Title: Math For Operators Date: 03/2018 Event: AWWA Cascade to Coast short school

Title: Math For Operators Date: 03/2019 Event: AWWA Cascade to Coast short school

Professional Organizations/Activities: PNCWA west central operators section Date: April 2018 - Present

AWWA Cascade to Coast section Date: April 2018 - April 2020

Course sponsor: AWWA / PNCWA short school Albany, OR

Signature of Instructor: Brian Stevens Date: 1-4-2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Reagentless Free Chlorine

Presenter: Frank Spevak Title: Application Engineer

Employer: Rosemount Analytical Address: 4618 51st St. Court East

City: Tacoma State: WA Zip: 98443 Phone: 206-979-1953

Summary of Lesson content: Fundamentals of measurement, technology comparison, troubleshooting techniques, calibration procedures and various installation ideas in Oregon. Effects of pH, flow and temperature are also discussed.

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 present 25+ years of instrumentation experience both as technician, sales and application engineering assistance with both gas and liquid analytical measurements in AK, WA, OR & ID.

Education (High School, Upgrades, Colleges and Degrees): Associates Degree in Instrumentation and Control Technology
Bellingham, WA;

Professional Registration/Certification: Not sure how to answer this.

Related papers/instruction you have presented:

Title: Reagentless Free Chlorine Date: June, 2016 Event: NW Oregon AWWA Short School

Title: Reagentless Free Chlorine Date: March, 2020 Event: Idaho Rural Water Association

Professional Organizations/Activities: AWWA Member Date: 12/01/14

Date: _____

Course sponsor: _____

Signature of Instructor: Frank Spevak Digitally signed by Frank Spevak Date: 2017.11.21 05:48:49 -08'00' Date: Jan. 4, 2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: What if Your Meters Could Hear the Leaks You Can't See

Presenter: Tim Owens Title: VP

Employer: Correct Equipment Address: 300 S Redwood Street 135

City: Canby State: OR Zip: 97013 Phone: 503.582.0555

Summary of Lesson content: Acoustics are extensively used for locating leaks within a water grid. A new approach is used in an ultrasonic sensor housed inside of a water meter. Since meters are installed at every customer location, operators will have greater coverage to monitor the system for leaks in service lines as well as the distribution lines.

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: I have worked in and with water utilities for over 13 years, helping them make good decision on equipment including measuring water more accurately with metering and technology solutions.

Education (High School, Upgrades, Colleges and Degrees): PCC

Professional Registration/Certification: _____

Related papers/instruction you have presented:
Title: What if Your Meters Could Hear the Leaks You Can't See Date: 11/17/21 Event: Umpqua Operator Conference
Title: What if Your Meters Could Hear the Leaks You Can't See Date: 10/27/21 Event: OAWU

Professional Organizations/Activities:
AWWA Member Date: Current

Course sponsor: _____

Signature of Instructor: Tim Owens Digitally signed by Tim Owens Date: 2021.12.03 14:47:08 -08'00' Date: 12/3/21

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: History of Valves

Presenter: Carl Schaumburg Title: Distribution Specialist

Employer: City of Corvallis Address: 1245 NE 3rd

City: Corvallis State: or Zip: 97331 Phone: 541-754-1768

Summary of Lesson content: Importance of Location and Operation of Valves in your Distribution System

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 present LBCC WET Program, 7.5 Years of water Treatment and Distribution:

Education (High School, Upgrades, Colleges and Degrees): High School Grad ,LBCC WET Program

Professional Registration/Certification: Treatment #09193. Distribution #09397 Back Flow Cross Connection Inspector# 009193

Related papers/instruction you have presented:

Title: History of Valves Date: 4/16/2019 Event: AWWA Short School

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Carl Schaumburg Digitally signed by Carl Schaumburg Date: 2021.12.09 07:40:56 -08'00' Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Water Distribution Claims and Risk Management

Presenter: Sarah Creighton / Enterprise Risk Program Mgr Title: (and) Chris Vincent / Enterprise Risk Analyst

Employer: Eugene Water & Electric Board (EWEB) Address: 4200 Roosevelt Blvd.

City: Eugene State: OR Zip: 97402 Phone: 541-685-7630

Summary of Lesson content: This class will cover water distribution claims, including taking photographs, how to respond to a vehicle incident, how to write a damage report, and what to say (or NOT to say) when an incident occurs.

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: Both Sarah and Chris have responsibility to investigate and respond to water utility liability and damage recovery claims.

Education (High School, Upgrades, Colleges and Degrees): (Sarah): Webster University, Bachelor's Degree
(Chris): University of Oregon, Bachelor's Degree

Professional Registration/Certification: (Sarah): Insurance industry certifications CPCU and ARM-E

Related papers/instruction you have presented:

Title: Claims in the Water Utility Industry Date: 4/16/19 Event: AWWA Short School

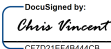

Title Claims in the Water Utility Industry Date: April 2018 Event: AWWA Short School

Professional Organizations/Activities:

Date: _____

Date: _____

Course sponsor: _____

Signature of Instructor:   Date: 12/8/2021

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Online pH 101

Presenter: Frank M. Spevak Title: Application Engineer

Employer: Rosemount Address: 4618 51st St. Court East

City: Tacoma State: WA Zip: 98443 Phone: (206) 979-1953

Summary of Lesson content: To explain how the glass and reference electrodes operate, their relationship and use in combination electrodes, what slope and reference offset are, the effects of temperature, proper maintenance, troubleshooting and a live buffer calibration. Will also show some installations NOT to do.

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: 25+ years of instrumentation experience both as technician, sales and application engineering assistance with both gas and liquid analytical measurements in AK, WA, OR & ID.

Education (High School, Upgrades, Colleges and Degrees): Associates Degree in Instrumentation and Control Technology, Bellingham, WA

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Online pH 101 Date: May, 2019 Event: Alaska AWWA Annual Conference

Title: Reagentless free chlorine Date: March, 2017 Event: Washington Operators Workshop

Professional Organizations/Activities: AWWA Member Date: 12/01/14

Date: _____

Course sponsor: _____

Signature of Instructor: **Frank Spevak** Digitally signed by Frank Spevak Date: 2017.11.21 05:58:42 -08'00' Date: Jan. 4, 2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE P.O. Box 577 Canby, OR 97013-0577 Email: info@oesac.org Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Automatic Control Valves

Presenter: Mike Uthe Title: Northwest Technology Manager

Employer: Mueller Water Products Address: 19019 Frontage Road

City: Belgrade State: MT Zip: 59714 Phone: 406-223-2192

Summary of Lesson content: Control valves can help provide data and control water loss.

In this presentation I will cover the hydraulic fundamentals of these valves along with tips for choosing, troubleshooting, and maintaining them.

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: 8 years in the water industry working in engineering and sales for the Pacific Northwest and Rocky Mountain Regions.

Education (High School, Upgrades, Colleges and Degrees): Master's in Mechanical Engineering.
Bachelor's in Petroleum Engineering and Business Management

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Michael Uthe Date: 12/27/2021

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: _____

Presenter: _____ Title: _____

Employer: _____ Address: _____

City: _____ State: _____ Zip: _____ Phone: _____

Summary of Lesson content: _____

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: _____

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Management of Legionella in Water Systems

Presenter: Gwen Woods-Chabane Title: Drinking Water Quality Lead

Employer: HDR Address: 1050 SW 6th Avenue, Suite 1800

City: Portland State: OR Zip: 97204 Phone: 951.231.3229

Summary of Lesson content: This presentation provides a review of Legionella occurrence in building water systems and provides overview of various strategies for mitigating Legionella in premise plumbing.

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: >5 years helping facilities address Legionella concerns and develop Water Management Programs to minimize Legionella. >10 years experience with distribution system WQ.

Education (High School, Upgrades, Colleges and Degrees): PhD in Chemistry, University of Toronto

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Legionella Water Management Program Date: 5/15/2020 Event: AWWA KY/TN Special Webinar

Title: Management of Legionella in Water Systems Date: 7/14/2020 Event: HDR Webinar Series

Professional Organizations/Activities: PNWS-AWWA, Member Date: 2019-Present

AWWA - Organic Contaminant Research Committee, Premise Plumbing (members) Date: 2013-Present, 2019-Present

Course sponsor: American Water Works Association Cascade to Coast Subsection

Signature of Instructor: Woods-Chabane, Gwen C Digitally signed by Woods-Chabane, Gwen C Date: 2022.01.24 11:02:37 -08'00' Date: 1/24/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Canby, OR 97013-0577



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: EWEB's Emergency Water Supply Program

Presenter: Nathan Endicott Title: P.E.

Employer: Eugene Water and Electric Board Address: 4200 Roosevelt Blvd.

City: Eugene State: OR Zip: 97402 Phone: 541-685-7367

Summary of Lesson content: The Eugene Water and Electric Boards has developed a multifaceted approach to designing

and developing emergency drinking water supply sources and distribution points should a disaster strike! The presentation
will cover mobile distribution and treatment systems along with distributed well water sources.

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: Performing civil engineering planning and design work;

preparing contract documents and managing construction projects related to potable water infrastructure.

Education (High School, Upgrades, Colleges and Degrees): Bachelor degree in Civil engineering from Portland State

University.

Professional Registration/Certification: Professional Engineer in Civil Engineering.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Nathan Endicott Date: 01/11/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Canby, OR 97013-0577

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Calming the flow: Monitoring pressure transients to reduce main breaks

Presenter: Bill Kelly Title: Senior Vice President of Business Development

Employer: Syrinx, Inc Address: 931 American Pacific Dr, Suite 108

City: Henderson State: NV Zip: *89014 Phone: 925 667-8456

Summary of Lesson content: This presentation will review a step by step process to identify and reduce water main breaks in your distribution. By managing the causes of pressure transients in your distribution system, you can reduce water main breaks and leaks. Focus will be on pump stations and how they adversely affect the network

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: Water System pressure, GIS, water distribution networks, water main breaks

Education (High School, Upgrades, Colleges and Degrees): University of California, Chico, Communications

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Exploring Pressure and Force Main Bursts Date: 11/14/2021 Event: Oregon Operators Conference

Title: Finding the source of Water Theft Date: 10/23/2021 Event: WEFTEC

Professional Organizations/Activities: AWWA Date: Since 2000

Date: _____

Course sponsor: _____

Signature of Instructor: William Kelly Date: 01/12/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Tech Tackles Water Theft Mystery

Presenter: Bill Kelly Title: Senior Vice President of Business Development

Employer: Syrinx, Inc. Address: 931 American Pacific Dr, Suite 108

City: Henderson State: NV Zip: 89014 Phone: 925 667-8456

Summary of Lesson content: _____

Water theft is a growing issue in water stressed areas. Syrinx will illustrate how they worked with Contra Costa Water District in Northern California to pinpoint when water was taken illegally from their distribution network.

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: Water pressure management, pressure transients, GIS

Education (High School, Upgrades, Colleges and Degrees): California State University, Chico, Communications

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Tech Tackles Water Mystery Date: 10/23/2021 Event: California/Nevada AWWA

Title: Tech Tackles Water Mystery Date: 10/23/2021 Event: WEFTEC-Chicago

Professional Organizations/Activities: AWWA Date: 2000

Date: _____

Course sponsor: _____

Signature of Instructor: *William Kelly* Date: 01/12/2022

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486

Bill Kelly

Bill is a highly-focused sales and business leader with 20 years' experience in commercializing new and existing products in municipal markets.

Currently, he is the Senior Vice President of Business Development at Syrinix Inc. Syrinix is a smart water solutions provider that helps extend the network life of water and wastewater systems through innovative hardware and software solutions.

In his previous role as Director of Client Engagement for SL Environmental Law Group, PC, he helped water systems, municipalities, and states in lawsuits to shift treatment costs from the ratepayer to polluter. Bill was responsible for business development and marketing for the environmental law firm.

Bill also served as the interim CEO and COO of Lucid Energy Inc., where he helped finish their first commercial hydroelectric project in Portland, Oregon and right-size the business for future funding.

As the President of Isle Inc., he oversaw an independent technology and innovation consultancy in the United States. Isle Inc has a strong track record in identifying emerging technologies and accelerating its commercialization through its global innovation forum– the Technology Approval Group (TAG). 25 years in business and market development, and advising the municipal water, wastewater and renewable energy sector across the USA.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: ORWARN Tabletop Exercise

Presenter: Jeremiah Hunt Title: Water Construction & Distribution Supervisor

Employer: Eugene Water & Electric Board (EWEB) Address: 4200 Roosevelt Blvd.

City: Eugene State: OR Zip: 97402 Phone: 541-685-7602 / 541-852-8187

Summary of Lesson content: Using the ICS structure and ORWARN resources, participants of the class will work through a scenario coordinating water distribution recovery after a massive event. This will be a very interactive class as the group will brainstorm, plan and react to injects of the event.

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: See attached

Education (High School, Upgrades, Colleges and Degrees): High School

Professional Registration/Certification: OHA Water Distribution Grade 3 Certification, Arizona Department of Environmental Quality Grade 4 Water Distribution, Grade 4 Wastewater Collections & Grade 2 Water Treatment.

Related papers/instruction you have presented:

Title: Water Main Breaks BMP Date: March 2015/2016 Event: Cascade to Coast Short School

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

ORWARN Board Member and current Chair Date: 2013 to Present

Date: _____

Course sponsor: _____

Signature of Instructor: Jeremiah Hunt Digitally signed by Jeremiah Hunt Date: 2022.01.06 12:24:25 -08'00' Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Phone: 503-698-6486

Brief Bio for Jeremiah Hunt

I've been working in water distribution for 25 years and have 13 years' experience in Wastewater Collections. I started my career in the field working in all parts of the water distribution and wastewater collection systems. My career started in Arizona where I worked for two utilities, Citizens Utility and The City of Goodyear. Then I pulled my roots to work for Eugene Water & Electric Board (EWEB). I've been with EWEB for 12 years and have been a supervisor for the past 11. I've been on the Oregon Water/Wastewater Agency Response Network (ORWARN) Board for 9 year and currently serving as the Chair of the Board. I've also completed FEMA, ICS 100, 200, 300, 400, 700, & 800 courses. This presentation is geared around the NIMS/ICS structures and utilizing utility to utility resources to accomplish goals outlined by the group.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The Dalles, Oregon Dog River Pipeline Replacement

Presenter: Brady Fuller Title: Client Account Manager

Employer: Jacobs Engineering Group Inc. Address: PO Box 936

City: Bend State: OR Zip: 97702 Phone: 541.318.4716

Summary of Lesson content: Project overview, summary of permitting, engineering design, construction phase requirements, and operational needs associated with replacing 100+ year old water supply infrastructure in remote, forested site on USFS lands.

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: See attached resume

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Canby, OR 97013-0577

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Phone: 503-698-6486

R. Brady Fuller, PE

Client Account Manager / Principal Project Manager

Personal Details

Length of service in the profession: 25-years

Summary Biography

Brady is a principal project manager and hydraulic engineer with expertise in performing project management, design and construction management, for multidisciplinary utility and water resource projects.

Key Skills/Areas of Expertise

- More than 25 years of experience in wastewater and water design, project management, and construction management
- Broad public works engineering project management and design experience
- Project management experience for multi-discipline pipeline, irrigation and treatment facility planning, design and construction projects
- Experienced conveyance designer including raw sewage, plant effluent, and in-plant pump stations, temporary bypass pump stations, gravity interceptors, force mains
- Construction management and construction engineering expertise includes treatment facilities, pump stations, hydraulic structures, gravity collection and outfall systems, pump station rehabilitation, electrical distribution facilities

Education and Qualifications

- M.S., Civil and Environmental Engineering/Hydraulics, University of Iowa, 1996
- B.S., Civil Engineering, Oregon State University, 1994

Professional Registrations and Certifications

- Professional Engineer: Washington, 2002 (No. 37680); Oregon, 2000 (No. 51509), Idaho, 2017 (No. 17659)
- Oregon Certified Water Rights Examiner (No. 51509): 2008
- LEED Accredited Professional (LEED AP™): 2004
- Project Management Professional: 2015 (No. 1871425)

Professional Organization/Activities

- Member: WEF/PNCWA; Project Management Institute
- Conference Chair: PNCWA 2016 (Bend, Oregon)

Papers/Presentations

- PNCWA – Yakima Section – Richland WWTP Solids Handling Improvements
- Oregon Water Resources Congress – Asset Management, Tools for Improving O&M.
- Northwest Hydroelectric Association Small Hydro Workshop – Developing Guidance Manuals for Small Hydro Operation

Project Experience

IRRIGATION AND WATER RESOURCES

District Engineer, Swalley Irrigation District, Bend, Oregon. Represent District in engineering matters including Main Canal Pipeline easement delineation, system troubleshooting, and hydroelectric system maintenance.

Project Manager, City of The Dalles, Dog River Pipeline Replacement. Managed design of 3.5 miles of 30-inch diameter HDPE pipeline, fish screen, and passage modifications. Managed permitting team.

FISH PASSAGE AND DAMS

Senior Consultant; Opal Springs Hydroelectric Project Pool Raise and Fish Passage Improvements, Deschutes Valley Water District, Madras, Oregon, 2012-2014. Provided senior review of design deliverables for this \$10M improvement including dam crest and spillway chute improvements, vertical slot fish ladder, and electrical and site improvements.

Project Manager; Crack in the Ground; Hydroelectric Powerhouse Equipment Procurement and Design Services; Portland General Electric; Three Lynx, Oregon; 2013. Managed predesign including developing basis of design and technical specifications for 750-KW Francis turbine. Project location is a remote, forested site below Harriet Lake impoundment. Project is part of a FERC relicensing agreement to restore stream flows in the section of Oak Grove Fork Clackamas River below Harriet Lake.

CORROSION AND INDUSTRIAL COATINGS

Project Manager; Bend Water Reservoir Corrosion Engineering Assistance; City of Bend; Bend, Oregon; 3/2009 to 2010. Managed forensic investigation of failed coatings on 3.6 MG, Outback No. 3 steel water reservoir. Study found that coatings were not applied in conformance with specified surface preparation requirements. Recommended remedial actions to repair coatings. Managed the condition assessment report for all 14 of the Bend's steel water reservoirs and prepared the implementation plan for tank recoating, repairs, and maintenance.

WASTEWATER TREATMENT AND CONVEYANCE

Project Manager, Phase 5B Package 1 Salmon Creek Treatment Plant Improvements, Discovery Clean Water Alliance and Clark Regional Wastewater District; Vancouver, Washington. Managed development of Ecology Engineering Report for Package 1 (Odor Control and Existing Facilities Improvements) and Package 2 (Capacity Expansion). Managed entire 5A program design through 30% and then managed design of design of \$8M Package 1 project including preliminary/primary odor control, primary clarifier covers, solids odor control, aeration basin baffle and MLR pump improvements, yard piping, RAS piping replacement, hypochlorite system.

Project Manager, Phase 5B Package 2 Salmon Creek Treatment Plant Improvements, Discovery Clean Water Alliance and Clark Regional Wastewater District; Vancouver, Washington Managed design of new Aeration Basin 7, new aeration basin turbo blower, new Secondary Clarifier 5, demolition of Secondary Clarifier 2, RAS pump replacement, anaerobic digester microaeration system, perimeter fence improvements, security cameras, sludge conditioning system. Design will continue through 2022 with construction planned for 2023 and 2024.

Project Manager; Tri-City WRRF Solids Handling Improvements; Clackamas County Water Environment Services; Clackamas County, Oregon. Managed design and engineering services during construction of \$33M expansion to solids process including 1.3-million-gallon pre-stressed post-tensioned anaerobic digester, two dewatering centrifuges and cake handling system, new 600KW cogeneration engine, and supporting facilities. Project performed geotechnical evaluation of lateral spreading during seismic design conditions, and designed secant pile wall to allow construction and deep excavation adjacent to existing facilities.

Project Manager; Bend Water Reclamation Facility (WRF) Secondary Expansion Services during Construction; City of Bend; Bend, Oregon; 2009 to 2020. As assistant PM during design and as PM during construction, managed engineering services for this \$33 million construction project implementing new primary clarifier, new primary sludge pump stations, integrated fixed-film activated sludge (IFAS) aeration basin, new plant drain pump station, blower building with high-speed turbo blowers, ultraviolet (UV) disinfection of plant effluent and Class A re-use water, major high-density polyethylene (HDPE) and ductile iron, integration of SCADA improvements.

Project Manager; Bend Southeast Interceptor; City of Bend; Bend, Oregon; 8/2007 to 2/2018. Managed design of 6-1/2 mile long 24-inch and 30-inch diameter bid packages including work in 2010, 2012, 2014, 2015, and 2016. Work included BNSF railroad undercrossing, large irrigation district canal undercrossing, and work in private easements immediately adjacent to occupied residences, neighborhood, collector, and arterial streets.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: North American FCL Users Group Exchange

Presenter: Lonny Sayles & Frank Spevak Title: Lead Water Treatment Plant Operator

Employer: EWEB & Rosemount Address: 3957 Hayden Bridge Road

City: Springfield State: OR Zip: 97477 Phone: 541-206-3976

Summary of Lesson content: An Exchange of solutions and ideas created by FCL (free chlorine/pH) panel users

From throughout the Pacific Northwest and Alaska. Each idea/solution provides a unique and specific approach to solving common issues experienced by potable water suppliers here sand around North America.

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: 26 Years Water Treatment Plant Operations and Maintenance Experience, Maintaining all plant instrumentation along with implementation of new technology process equipment.

Education (High School, Upgrades, Colleges and Degrees): Highschool graduate with 4 years post education and training in Plant operations, instrumentation and equipment vibration analysis.

Professional Registration/Certification: Water Treatment Level 4 - Filtration Endorsment - Distribution Level 1.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: AWWA Member Date: 1996 to present

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Lonny D. Sayles Date: 1/14/2022

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: What's Happening with PFAS?

Presenter: Andrew Nishihara Title: Civil Engineer

Employer: Stantec Address: 601 SW 2nd Ave. Suite 1400

City: Portland State: OR Zip: 97204 Phone: 503-220-5432

Summary of Lesson content: Overview and history of PFAS, discussion about current status of regulations and treatment alternatives, and present case studies and lessons learned from two projects using two different treatment technologies.

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 project technical lead. Have worked on PFAS related projects in Alaska, Minnesota, Illinois, and California.

Education (High School, Upgrades, Colleges and Degrees): BS - Bioengineering, Oregon State University, 2008

Professional Registration/Certification: Civil Engineer - Oregon (83991), Hawaii (18601), Washington (56016)

Related papers/instruction you have presented:

Title: What's next for PFAS and Gen-X? Date: October 2019 Event: IMS-AWWA Section Conference, Idaho

Title: The Fast PFAS Arms Race for Reliable and Economical Water Treatment Removal Tech Date: February 2021 Event: Hawai'i WEA 2021 Pacific Water Conference

Professional Organizations/Activities:

AWWA Member Date: 2013-present

Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 1/12/2022

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Drinking Water Regional Internship Program (DRIP) Building a Water Workforce.

Presenter: Chris Wilson Title: Senior Program Manager Water Treatment Division

Employer: Joint Water Commission Address: 150 E. Main

City: Hillsboro State: OR Zip: 97123 Phone: 503-504-3713

Summary of Lesson content: Discussion on creating a regional internship program for water utilities. Including grant applications, outreach, working with regional utilities, Clackamas Community College, local high schools and providing opportunities for interested people to learn about water careers and enter the workforce. There are alot of operators retiring, alot of new positions opening soon and not alot of people entering the field.

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: See Resume

Education (High School, Upgrades, Colleges and Degrees):

Professional Registration/Certification:

Related papers/instruction you have presented:

Title: DRIP Presentation Date: 2022 Event: PNWS Conf. in Tacoma and Utilites Managment Committee

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

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Canby, OR 97013-0577 Date: _____

Course sponsor: Chris Wilson

Signature of Instructor: _____ Date: 12/16/2021

*Motivated leader with 19 years of experience in the water industry.
Looking to utilize my experience in Water Plant Management to help lead the WWSP WTP to
successful completion of a “Once in a Lifetime” project from Design to Operations*

Joint Water Commission / City of Hillsboro Work Experience

| | |
|--------------------------|-------------------------------|
| Water Treatment Manager | July 2018 – present |
| Assistant Water Manager | July 2015 – July 2018 |
| Water Plant Coordinator | October 2008 – July 2015 |
| Water Plant Operator 1-4 | September 1999 – October 2008 |

Project and Program Experience

Managing WTP during current upgrade and expansion project to 85 MGD. To be completed June 2019.

Managed and/or led multiple Pilot studies at the JWC WTP. Including: Ozone Pilot study, filter re-rate study, filter media profile testing including utilization of online filters and others which all lead to approval by the Oregon Health Authority (OHA).

Owner’s representative for JWC on multiple large scale projects tasked with reviewing plans, submittals, and construction activities for multi-million dollar projects.

Managed implementation of a new Asset Maintenance Management System. (Cartegraph)

Managed implementation of JWC WTP SCADA version update and WonderWare rebuild.

Participated in the Near Term Improvement Project and implementation of the new WonderWare system and PLC upgrades.

Developed working relationship with OHA. Negotiated and worked with OHA staff on many JWC projects, all successful with positive interactions.

Workforce development liaison with Hillsboro School District, Hillsboro Chamber of Commerce School to Career Program and post-secondary partners.

CHRIS WILSON

Management Experience

Manage 18 person staff at the JWC WTP, including Operators, Lab, and Maintenance staff.

Manage JWC budget development and implementation.

Collaboration with JWC Partners, established and maintain professional partnerships.

Maintain constant compliance with OHA standards and guidelines for finished water turbidity and other parameters.

Manage the Chlorine Process Safety Management and Risk Management Program. Maintain accurate documentation details and manage equipment maintenance.

Led multiple maintenance projects such as Raw Water Traveling Screens repairs and Raw Water/Finished Water pump removal and repairs.

Coordinated filter underdrain repair project, which included removal of filter media, repairing underdrain seals and replacing of media.

Perform construction inspections and review of plans, drawings, and equipment testing during plant expansion and replacement projects.

Led installation of PAC feeder; planned PAC feed-rate and system plan during 2008 Taste and Odor event.

Perform various trainings and presentations for AWWA conferences as well as City of Hillsboro events.

Skills Summary & Certifications

State of Oregon Level 4 Water Treatment Plant Operator with Filtration Endorsement.

Member of the AWWA Water Treatment Committee.

Completed ICS/NIMS Hazardous Response training through FEMA.

Education

| | | |
|------|---|-------------------------------|
| 1997 | Associates Degree – General Studies | Umpqua Community College |
| 1999 | Associates of Applied Science Degree Waste/Wastewater Technology | Linn Benton Community College |



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Water Conservation Education and more!!!

Presenter: Brenda Scott Cervantes Title: Project Manager Water & Energy Programs

Employer: Lane Community College Address: 4000 E 30th Ave

City: Eugene State: Or Zip: 97405 Phone: 541-463-3671

Summary of Lesson content: Water Education and what do you need and what do we have

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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: _____

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Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented: Ó^ áá * ÁJ ^!æ [^ Á^ ááæá } Á æ^Á) d^ & q !
Achieving Water, Energy and Cost
Title: Savings through Conservation Date: April 28, 2021 Event: Smart Building Center Technical Webinars

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Professional Organizations/Activities:
AWWA member of PNW and Ca/NV California Water Efficiency Partnership Date: Current

Alliance for Water Efficiency Member of the Education Committee Date: Current

Course sponsor: _____

Signature of Instructor: Brenda Scott Cervantes Date: 01/06/2022

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577 Phone: 503-698-6486
Canby, OR 97013-0577

Brenda Cervantes

Eugene, Oregon

503-481-0130

cervantesb@lanecc.edu

Summary: 30+ years of project administration experience across industries including law, medical, natural science, public service, education, and business. Multifaceted approach to problem solving. A wealth of experience and the ability to exceed expectations.

Bilingual: English/Spanish

Work Experience:

Project Specialist Lane Community College

August 2018-Present

- Work with staff, instructors, water/energy industry partners, and advisory committee to assist in curriculum development.
- Create promotional materials and provide a variety of regional opportunities in the water\energy industry to share program details.
- Manage grant budgets, grant reports, track activities and outreach, and act as liaison for PI and Co-PI.
- Outreach to industry partners to build relationships to support the program and scholarship monies for students.
- Network with utilities in several states to build partnerships. Provide industry expertise from these relationships and from the Advisory Committee.
- Creating and developing a variety of marketing products to be shared with online partners, social media, radio shows and among staff and partners.
- Web page editing and updating to reflect program moving online and new staff.
- Current projects include contract with DOE and a grant from National Science Foundation

GIS Technician Public Works City of Florence, Florence, Or.

May 2015-Feb 2018

- Edit, create, and manage data for all infrastructure of City. Including storm, water, and wastewater, roads, buildings, and other aspects of Public Works. Use drawings and information from field crew to collect data for edits and maintenance. Visit field, verify, and collect data to be integrated into Local Government Model.
- Create maps for diverse needs of the City and community, assist with grant writing, work with staff to provide customer service for citizens of the City. Provide maps for PW crew for field work and construction. Process data for Architecture and Engineer groups to be used in drafting and design. Provide data to County organizations for their databases.
- Create, edit, and manage technical documents; Wastewater Treatment Plant/Water Treatment Plant Emergency Planning documents for DEQ permit requirements, Mercury Minimization Plan, Fats, Oils and Grease Program and other supporting documents. Researched and consulted with state officials for compliance. Formatted and worked with staff to assure accuracy and compliance.
- Write/research for grant writing to assist in the expansion of the Parks Program and for street enhancements. Successful grants for Miller Park and River Park. STIP grant funds for street enhancement.

Program Assistant/GIS Technician Long Tom Watershed Council, Eugene, Or

April 2012-May 2015

- Administrative support for the operations and program manager in daily functions of Watershed Council.

Education

Lane Community College, Eugene, Oregon

Water Conservation Technician A.A.S 2013

Geographic Information Systems Certificate 2013

Portland State University Portland, Oregon. Social Science B.S 1988

Additional coursework in Natural Sciences Teaching Certification (Expired)

Certificate in Permaculture OSU



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Salem's Cyanotoxin Response

Presenter: Cody Marrs Title: Geren Island WTP Supervisor

Employer: City of Salem Address: 1410 20th St. SE Bldg #2

City: Salem State: OR Zip: 97301 Phone: 503-932-3892

Summary of Lesson content: Response to the 2018 toxic algae bloom and treatment techniques to remove toxins. Upgrades to the treatment facility.

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: Over 20 years in the water industry.

Education (High School, Upgrades, Colleges and Degrees): AAS Water/Wastewater - Linn Bento C.C.

Professional Registration/Certification: Oregon Water Treatment Level 4

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: *Rose Cody Marrs* Date: 1/13/22

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Salem's Beven Island Water Treatment Plant Improvement Project

Presenter: John Kennedy Title: Consultant Project Manager

Employer: AKS Engineering & Forestry Address: 3700 River Rd. N, Suite 1

City: Keizer State: OR Zip: 97303 Phone: (503) 434-3681

Summary of Lesson content: Overview of the City of Salem's response to a cyanotoxin outbreak in 2018 in their raw water supply source (N. Santiam River): The temporary use of Powdered Activated Carbon was followed by the recent completion of ozone treatment

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: Project Manager for the design and construction of facility improvements at Beven Island.

Education (High School, Upgrades, Colleges and Degrees): B.S. Civil Engineering, Oregon State University

Professional Registration/Certification: P.E. in Civil and Environmental Engineering

Related papers/instruction you have presented:

Title: Salem's GIWTP Date: Oct. '21 Event: ASCE Capital Branch Meeting

Title: Salem's Algal Toxin Removal Program Date: Oct. '19 Event: APWA Fall Conference

Professional Organizations/Activities: APWA Date: Current

ASCE Date: Current

Course sponsor: Lisa Erkert

Signature of Instructor: [Signature] Date: 01-10-2022

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Email: info@oesac.org
Phone: 503-698-6486

John D. Kennedy

900 NW Harold Court
McMinnville, Oregon 97128
(503) 434-3681
kjkennedy73@comcast.net

WORK EXPERIENCE

AKS ENGINEERING AND FORESTRY, Kizer, Oregon - Since July 2016

City of Salem – Since July 2017: Consulting Project Manager integrated into the City's engineering staff to manage a variety of capital improvement projects, both large and small. Projects managed to date include wastewater pumping stations, stormwater and drinking water improvement projects. Notable large projects include:

- **Geren Island Water Treatment Plant Improvements** - \$90 million expansion of the treatment facility including ozone treatment, groundwater well expansion, filter reconstruction and operational control system improvements.
- **Aquifer Storage and Recovery (Preliminary Design)** - \$12 million expansion of the existing well field to include treatment facility for pH adjustment, de-chlorination and re-chlorination.

Cities of Hubbard and Independence – July 2016 to March 2018: Consulting City Engineer providing technical services for capital improvement projects plus plans and code compliance review for subdivisions and commercial development. Also provided technical support for projects during construction.

DC WATER, Washington, D.C. – November 2012 to July 2016

- **First St. Tunnel Project (FST)** - Program Manager for Construction of the \$156 million FST. Duties include administration of both the construction management consultant services contract and the design-build construction contract. Primarily focused on issues pertaining to schedule, change management, quality, budget, and payments, M/WBE participation, community relations and coordination with DC and federal regulatory agencies. Unique technical challenges include geotechnical engineering for deep shafts, frozen ground excavation and tunneling. Managed and supported the resident engineer while coordinating technical support services of the design engineers. FST is near homes in the Bloomingdale neighborhood and as such, the 2-year construction has a significant impact on residents. Served as DC Water's primary point of contact with the community and elected officials for all issues pertaining to FST. Managed public meetings in close coordination with DC Water's public outreach team.
- **Division N Green Infrastructure** - Resident Engineer on the \$3.5 million Low Impact Development (LID) project (Division N Green Infrastructure) which is part of the \$2.6 billion DC Water Clean Rivers program. Managed the administration of the construction contract. Duties included communication, management of meetings, inspection and quality control, processing progress payments and change orders, maintaining document control and records, and contract closeout. Facilitated Engineer of Record review of submittals, Requests for Information (RFI) and record drawings. Manage a project team consisting of one full-time inspector plus part time

design engineer and project controls specialist. Manage contract compliance with regional goals for M/WBE participation and DC Water requirements for project quality and safety.

CLEAN WATER SERVICES, Hillsboro, Oregon - October 2008 to November 2012

Senior Engineer in the Conveyance Systems Department managing the development, design and construction of sanitary sewer and surface water capital improvement projects, primarily gravity pipeline projects. Responsibilities included support and supervision of three project managers and two construction inspectors while also managing special project assignments. Areas of expertise include the rehabilitation of large diameter sanitary sewer pipelines and Infiltration and Inflow (I&I) reduction projects. Significant involvement with the development of department budgets, policies, procedures, and project priorities.

CITY OF LAKE OSWEGO, Lake Oswego, Oregon - May 2007 to October 2008

Assistant City Engineer responsible for the administration, planning, and coordination of the Construction Services Section of the Engineering Division. Supervised a project management staff of seven which included prioritizing and developing work plans, evaluating performance, monitoring progress, establishing and interpreting policies and procedures. Established the means and methods to deliver public improvement projects. Prepared written reports and made presentations to neighborhood associations, City Boards and Commissions, and the City Council. Represented the City on local and regional issues pertaining to drinking water, storm water, and wastewater systems. Fulfilled the duties of the City Engineer for nine months during a staff transition.

PORT OF PORTLAND, Portland, Oregon; December - 1999 to May 2007

Project Manager leading teams of consultants and/or Port engineering staff through planning, design, construction, and start-up of various capital improvement projects at Portland International Airport (PDX). Responsibilities focused on defining and managing project scope, budget, and schedule. Applied professional judgement and sound decision making to keep projects on task and consistent with Port and industry standards. PDX projects require a very high level of coordination with the needs of a large, complex, operating facility including balancing the expectations of many stakeholders. Regularly communicated with, and made presentations to, senior leadership including Port Commissioners. Significant PDX projects included Headquarters and Parking Structure (\$250 million), Terminal Expansion South Phase 3 (\$22 million), North Terminal Food Concessions Expansion (\$10 million), and remodels to the international arrival area to accommodate flights from Germany and Tokyo (\$7 million). Also managed a variety of smaller projects dealing with improvements to aircraft gates, holdrooms, security checkpoints, Port office and leased tenant spaces.

CITY OF McMinnville, McMinnville, Oregon - August 1992 to December 1999

Assistant City Engineer responsible for assembling and leading teams of consultants and/or City staff as required for delivery of municipal capital improvement projects. This was an advanced professional and administrative position responsible for defining project objectives, planning, designing, and then managing the construction and start-up of both large and small projects. Developed and managed project scope,

schedules, and budgets. Provided frequent project status reports to City managers and the City Council. Proactively worked to identify and resolve project challenges, both technical and political. Managed over \$60 million in projects, primarily sewer system improvements. Other projects included storm drainage, transportation, and building modifications. Managed the collection of FEMA money for two natural disasters that impacted City infrastructure. Participated in the development of department goals, policies, budgets, and priorities for both the engineering and public works departments. Responsibilities also included supervision of Engineering Technicians.

KENNEDY/JENKS CONSULTANTS, Federal Way, Wash. - July 1989 to Aug. 1992

Project Manager, designer, and resident engineer for a variety of municipal capital improvement projects for several public agencies in the Seattle area. The projects included drinking water systems, storm and sanitary sewer systems, and seismic vulnerability assessments of infrastructure. Engineering services performed included conceptual planning, cost estimating, design, construction management and start-up.

STANFORD UNIVERSITY, Palo Alto, California - January 1984 to July 1989

Project Manager responsible for planning, design, and construction of infrastructure (transportation, utility, and landscape) capital improvement projects on campus. Significant projects included 1) utility master plan for a \$250 million campus expansion and 2) expansion of the Stanford Linear Accelerator Center (SLAC).

EBASCO SERVICES, INC., New York, New York - June 1981 to December 1983

Field Engineer at three nuclear power plant construction projects: 1) WPPSS Units 3 and 5 near Satsop, Washington, 2) South Texas Project near Bay City, Texas, and 3) Nine Mile Point near Oswego, New York (ITT Grinnell). Responsible for expediting solutions to construction and engineering problems that occurred during the installation of concrete, rebar, structural steel, piping, and pipe supports. Developed and monitored construction schedules, redesigned engineered elements to adapt to field conditions, and provided technical direction to workers in the field.

US FOREST SERVICE, Medford, Oregon - June 1980 to September 1980

Summer job working as a Field Engineer in Training prior to final year of college. Inspected construction of infrastructure improvements to a tree nursery. Work included roads, utilities, and a building expansion.

US FOREST SERVICE, Prospect, Oregon - Summer of 1977, 1978 and 1979

Fire fighter on Rogue River Hotshot crew during summers while in college.

EDUCATION

- Audited Graduate Courses in Construction Engineering Management, Stanford University, 1987 and 1988
- Graduate Studies in Construction Engineering Management, Oregon State University, Fall 1982
- B.S. Civil Engineering, Oregon State University, 1981

PROFESSIONAL REGISTRATION

- Professional Civil and Environmental Engineer in Oregon.
- Professional Civil Engineer in Washington.

- Formally registered as a Professional Civil Engineer in California.

PROFESSIONAL ORGANIZATIONS

- Member of:
 - ASCE
 - APWA

TECHNICAL PRESENTATIONS

- “Integrating O&M into Salem’s Algal Toxin Removal Project”. Presented at the APWA Oregon Chapter’s Fall Meeting, October 2019. Co-authored with Jude Grounds, Carollo.
- “The Cost of LID, Division N Low Impact Development Retrofit”. Presented at the 2013 International Low Impact Development Symposium in St. Paul, Minnesota, August 2013
- "CIPP Rehabilitation of Sewers in the Beaver State - Design, Construction, and Lessons Learned". Presented at the annual "No Dig" conference in Nashville, Tennessee, March 2012. Co-authored with Robert Lee, B&C.
- "Developing a Large Diameter Sewer Rehabilitation Program". Presented at the PNCWA annual conference in Bend, Oregon, October 2010. Co-authored with Jim Hansen, B&C.
- "McMinnville, Oregon's Experience with the Development and Enforcement of a Private Sewer Lateral Replacement Ordinance". Presented at the ACWA annual meeting in Bend, Oregon, August 1998 and again at the PNPCA annual meeting in Portland, Oregon, October 1998.
- "Project Management". One of six instructors for the APWA sponsored workshop in Lake Oswego, Oregon, March 1997.
- "Alternative Contractor Selection: Getting Beyond the Low Bid Process". Presented at the APWA Oregon Chapter’s Fall Meeting, October 1995.
- "Correcting SSOs through Infiltration and Inflow Control: City of McMinnville, Oregon". Presented at the National Conference on Sanitary Sewer Overflows, Washington D.C., April 1995. Co-authored with Carrie Pak.

REFERENCES (All Former Supervisors)

| | |
|---|--|
| <p><u>Keith Kuenzi – (City of Salem)</u> 555 Liberty St. Salem, Oregon 97301-3513 (503) 588-6211 khkuenzi@cityofsalem.net</p> | <p><u>Carlton Ray – (DC Water)</u> 5000 Overlook Ave SW Washington, DC 20032 (202) 787-4469 carlton.ray@dcwater.com</p> |
| <p><u>Andy Braun -- (Clean Water Services)</u> 2550 Hillsboro Hwy Hillsboro, Oregon 97123 (503) 681-3600 brauna@cleanwaterservices.org</p> | <p><u>Joel Komarek -- (City of Lake Oswego)</u> PO Box 369 Lake Oswego, Oregon 97034 (503) 635-0270 jkomarek@ci.oswego.or.us</p> |



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Switching from Gas Chlorine to On-site Generation at the Hayden Bridge Filtration Plant.

Presenter: Toby Dixon Title: Lead Treatment Plant Operator

Employer: EWEB Address: 3957 Hayden Bridge Rd.

City: Springfield State: OR Zip: 97477 Phone: (541) 206-9987

Summary of Lesson content: Describe the history of feeding chlorine at the Hayden Bridge Facility . Decisions behind the switch. Operational perspective of design including pumps, tanks sizing, type of generators. WQ monitoring prior and during the switch. Operations during the switch. Lessons learned.

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: Primary maintenance tech. for the gas chlorine system for 4 years. Trained staff on chlorine maintenance. Plant operational contact for OSG project and start up.

Education (High School, Upgrades, Colleges and Degrees): Graduated High School. 2 years of College course work.

Drinking water production during military service with bromination disinfection.

Professional Registration/Certification: Treatment Level 4 Cert with a FE.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Toby J. Dixon Digitally signed by Toby J. Dixon
DN: cn=Toby J. Dixon, o, ou, email=toby.dixon@eweb.org, c=US
Date: 2019.12.16 13:36:23 -08'00' Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Drinking Water Partnership in the Rogue River Basin

Presenter: Craig Harper Title: Watershed Administrator

Employer: Medford Water Commission Address: 200 S. Ivy Street, Room 177

City: Medford State: OR Zip: 97501 Phone: 541-774-2453

Summary of Lesson content: The presenter will describe measures used by the Medford Water Commission

and the Rogue Drinking Water Partners, from Grants Pass to Shady Cove, to protect drinking water, and how the collaborative Partnership is contributing to effective drinking water protection and watershed management in the Rogue.

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: Over 30 years of watershed, water resources and

conservation experience, 20 years professional experience in the Rogue River Basin.

Education (High School, Upgrades, Colleges and Degrees): MS Geography-Water Resources emphasis, Oregon State U.

BA Geog., University of Colorado; HS Walsh, Colorado

Professional Registration/Certification: AICP

Related papers/instruction you have presented:

Title: DW Source Protection & Managemt. Date: Sept. 11, 2017 Event: PNWS-AWWA Short School

Title: Source Water Protection in Rogue Date: May 2, 2019 Event: PNWS-AWWA Annual Conference

Professional Organizations/Activities: Liaison, Rogue River Watershed Council Date: 2016-2021

Co-Founder, Rogue Drinking Water Partnership Date: 2017-2021

Course sponsor: EWEB

Signature of Instructor: Craig Harper Digitally signed by Craig Harper Date: 2021.12.01 10:20:24 -08'00' Date: Dec. 1, 2021

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Drinking Water Protection Plans Development

Presenter: Suzanne de Szoce Title: Water Resources Consultant

Employer: GSI Water Solutions, Inc. Address: 1600 SW Western Blvd, Suite 240

City: Covallis State: OR Zip: 97333 Phone: 541-257-9006

Summary of Lesson content: This presentation will cover the objectives, ^{development} process, and benefits of drinking water protection plans, and will provide examples in Oregon.

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: Expertise in watershed management and planning; experience developing drinking water protection plans, water management and conservation plans, and developing water conservation

Education (High School, Upgrades, Colleges and Degrees): BA Biology, Wellesley College; MS + PhD, Environmental Engineering Sciences, University of Florida

Professional Registration/Certification: NA

Related papers/instruction you have presented: I have not presented on this topic.

Most recent Title: Growing a Water Conservation Program - City of Redmond, OR Date: June 2021 Event: PNWS-AWWA Waterworks School

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: AWWA - AWWA ~~Conservation~~ Conservation Committee Date: 2021-present

AWWA Date: many years

Course sponsor: _____

Signature of Instructor: Suzanne de Szoce Date: 1/13/2022

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outreach programs and materials



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Water Supply Contaminants of Concern for Dialysis Patients

Presenter: David Cohen Title: Outset Medical Staff Water Engineer

Employer: Outset Medical Address: 3052 Orchard Dr.

City: San Jose State: CA Zip: 95134 Phone: 669.231.8200

Summary of Lesson content: Discussion of Potable Water Contaminants and treatment chemical additions which affect Dialysis Patient treatment in Clinical and at-home settings

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: State Water Engineer at Outset Medical

Education (High School, Upgrades, Colleges and Degrees): See Resume

Professional Registration/Certification: See Resume

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: See Resume Date: _____

Date: _____

Course sponsor: Outset Medical

Signature of Instructor: [Signature] Date: 12/13/21

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Subject Matter Expert/Water Treatment Engineer/Program Manager

Success Producing & Promoting innovative and eco-friendly water treatment systems' design, fabrication, and installation solutions for industrial, commercial, and municipal clients

A qualified Engineer, adept at managing design, documentation, and fabrication of water treatment modules and control panels for membrane treatment systems, high-purity water, chemical/biotech compounding processes, and wastewater recycling systems. Initiate and develop Industrial Water Treatment Equipment sales. Provide Program Management, Budget Control and Engineering support for large and small water treatment projects. Highly skilled in water and process fluid filtration systems, renewable energy, medical gas distribution, process fluid/gas distribution systems, and medium/low voltage electrical systems. Lead fabrication, maintenance, and operator teams in project implementation. Promote inter-departmental collaborations with Sales Managers, Project Managers, Technicians, Programmers, and Sales Associates to address technical aspects while supporting compliance with Federal and State Regulatory Agencies.

Highlights of Expertise

- Water Treatment & Purification Systems
- Phosphorous Mitigation Chemicals
- Probiotic Digester & MBR Additives Design
- Stakeholder Engagement & Collaboration
- Communications & Interpersonal Skills
- Commercial Acumen & Customer Service
- Logical Reasoning & Problem Resolution
- Chemical/Biological Treatments of FOG & H₂S
- Water Systems Engineering
- Training, Coaching & Mentorship
- Team Leadership & Development
- Documentation & Reporting
- Budget & Cost Control
- HSEQ Regulatory Compliance
- Operations/Project Management
- Utility Assessment & Bidding

Career Experience

ATS Innova Inc.

Manage budget and accomplishment of deliverables, including the development of conservational biocides for algae and invasive species, chemical/biological treatments of FOG and H₂S, and design of probiotic digester and MBR additives, phosphorous mitigation chemicals, and water/wastewater innovative products.

SENIOR WATER TREATMENT ENGINEER (2019 to COVID-19)

Maintain active communication and collaborate with five Regional Sales Managers across mid-west and western sales regions with the responsibility for providing technical support in all aspects of utility and risks assessment to enable prompt preparation of bids for potential municipal and industrial clients.

- Prepare high-quality and engaging training materials to drive multiple vertical promotional campaigns on containerized water treatment systems.
- Liaise with cross-functional teams to successfully coordinate the fabrication of containerized water treatment modules.

Key Achievement:

- Developed equipment sales from \$0 to \$650K within the first year and additionally contributed to the re-engineering, upgrade, and overhaul of existing chemical dosing equipment product offerings.

Process Engineering Services Inc.

Appointed as the President and CEO upon the formation of Process Engineering Services Inc. in 2003 with Corporate Insurance and Credit References being established later within the same year.

PRESIDENT & CEO (2003 to Present)

Provided senior-level guidance and advisory services to various clients, with subject matter encompassing sales, consultancy, specialty construction, and construction management for industrial electrical installation and instrumentation, as well as water/wastewater treatment systems.

- Spearheaded the successful execution and delivery of a high-profile project within the scope replacing 4000 Reverse Osmosis (RO) membranes for optimal water purification.
- Acted as the subject matter expert and engineering consultant in all aspects of water treatment and purification processes for the city of Santa Monica, California.

continued...

PureTec Industrial Water, Ventura, California

Developed training syllabus for PIW and client, Project Managers, Technicians, Programmers, and Sales Associates on engineering designs and documentation to support efficient sales of high-purity, pharmaceutical, medical, and process water treatment systems to Fortune-100, Oil & Gas, and pharmaceutical companies.

LEAD ENGINEER & SUBJECT MATTER EXPERT - High Purity Water Systems (2014 to 2016)

Facilitated close collaborative relationships with the IT Manager to develop an effective remote monitoring system for major PIW clients and also designed and delivered documentation to guide the fabrication of internal and client control panels.

- Led the successful close-out of two lucrative contracts that included sell of 80 gallons per minute (GPM) high-purity water system for the regional laboratory of a major health care provider and a 40 GPM pharmaceutical water system for a Fortune-100 medical device manufacturer.

Wunderlich-Malec Engineers, Calabasas, California

Planned and executed training for WME Project Managers, Technicians, and Programmers on engineering practices, design, and water treatment related to water and wastewater projects.

SUBJECT MATTER EXPERT - Water and Wastewater Projects (2007 to 2009)

Championed the formulation and efficient implementation of a facility test plan for a 7-MGD municipal reverse osmosis treatment plant.

- Provided technical guidance to support successful close-out of fabrication and field service work contracts within the Oil and Gas sector.
- Oversaw the design of control panels for membrane treatment systems via close liaison with WME Fabrication divisions.
- Provided SME consulting services to approximately 100 organizations, leading to a 15% average cost saving on operational budget.

ADDITIONAL EXPERIENCE

Founder and CEO (1990 to 2000) ■ Flow Tech Inc., Ventura, California

Further Experience, References, and Project Summaries upon Request

Education & Credentials

Professional Development: California Engineering Contractor License# 830851 with additional Licenses for Electrical, Instrumentation, and Water Treatment; MEP (Mechanical, Electrical, Plumbing) and I&C (Instrumentation and Control) projects.

Patents: Provisional Patent for Iron Hammer - Water treatment method of removal of Iron and Manganese in waters that exceed 100-PPM concentration; **Provisional Patent for Aqua-cultural Waste Processing** – Developed a unique method of treatment that combined biological digestion and membrane treatment to yield a commercially viable waste product.

Conference Presentations: Presented a paper on developing a 65,000 GPD Fluoride Removal Membrane System for Potable Well Water in Lakeland, California during the AWWA Conference held in Amsterdam, Netherlands.

Technical Proficiency: Microsoft Office Suite (Project, Word, Outlook, Excel, and PowerPoint); MIS systems.

Syracuse University

ENVIRONMENTAL SCIENCE QUALIFICATION

Institute for Applied Pharmaceutical Sciences

STERILE PHARMACEUTICAL PRODUCTS QUALIFICATION/VALIDATION PROGRAM



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Lake Oswego Water Conservation:2007-2020

Presenter: Kevin D. McCaleb Title: Water Conservation Specialist

Employer: City of Lake Oswego Address: PO Box 369

City: Lake Oswego State: OR Zip: 97034 Phone: 503 675 3747

Summary of Lesson

content: An overview of the City's Water Conservation Program from 2007 to 2020 successes, mistakes and results

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: Municipal Water Management practices, expertise in irrigation

Education (High School, Upgrades, Colleges and Degrees): BA University of Idaho. US History

Professional Registration/Certification:
Irrigation Association: C.I.C., C.L.I.A., C.G.I.A, C.I.D., Authorized Instructor

ARCSA (American Rainwater Catchment Systems Association: Accredited Professional

Related papers/instruction you have presented:

Title: Lake Oswego Water Conservation Date: 06/2021 Event: AWWA Watert Works School

Title Irrigation Assessments Date: 03/2018 Event: AWWA Conference Pre-con

Professional Organizations/Activities:

AWWA, Irrigation Association, ARCSA, EPA Date: 2000 to present

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P.O. Box 577 Phone: 503-698-6486

Course sponsor: Canby, OR 97013-0577

Signature of Instructor: Kevin D McCaleb Date: 1/21/2021

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Holiday Farm Fire: Response, Restoration, and Recovery

Presenter: Nancy Toth Title: Environmental Specialist

Employer: Eugene Water & Electric Board Address: 4200 Roosevelt Blvd

City: Eugene State: OR Zip: 97402 Phone: 541-685-7438

Summary of Lesson content: This presentation will outline both the immediate and longer-term response efforts that EWEB and other watershed partners took to assist landowners following the 2020 Holiday Farm Fire. Most of these efforts revolve around working with landowners to assess, provide recommendations, and implement actions to help prevent erosion and restore their riparian areas.

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: Nancy has been working in drinking water source protection for EWEB since 2006.

Works includes collaboration with multiple, state and local organizations to work on voluntary programs with landowners in an effort to protection the McKenzie River Watershed as EWEB's sole source of drinking water.

Education (High School, Upgrades, Colleges and Degrees): BA in Geography from Dartmouth College, MS in Environmental Studies from the University of Oregon

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Holiday Farm Fire: Recovery and Restoration Date: Nov 2021 Event: AWWA Water Quality Technology Conference

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

Chair of the AWWA Source Water Protection Committee, member of AWRA Date: June 2019-June 2022

Course sponsor: _____

Signature of Instructor: Nancy Toth *Nancy Toth* Date: 01-20-22

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Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: EWEB's Holiday Farm Fire Source Water Monitoring Program

Presenter: Lisa Erkert Title: Environmental Technician

Employer: Eugene Water & Electric Board Address: 3957 Hayden Bridge Rd

City: Springfield State: OR Zip: 97477 Phone: 541-685-7124

Summary of Lesson content: Overview of EWEB's source protection efforts to monitor water quality impacts of the

Holiday Farm Fire that occurred in 2020 in the McKenzie River Watershed. Presentation will include water quality

monitoring sites set-up, monitoring equipment used, ambient and storm monitoring results.

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: 3 years experience collections/operations of small public water and wastewater systems and stormwater collection. Almost 3 years on EWEB's Water Quality & Source Protection Team.

Education (High School, Upgrades, Colleges and Degrees): University of Oregon Bachelor of Science degree Environmental Science

Professional Registration/Certification: Water Treatment Level 1, Wastewater Collections Level 1, Wastewater Treatment Level 1

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

AWWA Cascade to Coast Short School Committee Member Date: 2018-present

AWWA Source Water Protection Committee Member Date: 2019-present

Course sponsor: _____

Signature of Instructor: Lisa Erkert Date: 1/20/2022

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