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American Water Works Association
Pacific Northwest Section

Southern Oregon Subsection Quarterly Meeting

June 2, 2022 in Bandon, OR

PRE-RECORDED VIDEO

Instructor Background & Information

Presentation Title: Air Mitigation in Liquid Conveyance Systems

Presenter: Geoff Robinson

Job Title: Territory Manager

Employer: Frank J Martin Co **Phone #:** 5036799091 **Email:** geoffr@fjmartin.com

Summary of Lesson Content: Participants will understand how entrained air accumulates in systems, as well as understand pipeline behavior during random air intrusion and catastrophic emptying. Participants will be able to associate and recognize common corrosion damage as well as cross-contamination events as air-related phenomena and begin to master management of efficient air mitigation programs. Participants will be able to choose and size air valve types for specific applications.

CEU Relevancy: Considering air and gas occurrence in potable water and wastewater pipeline systems is fundamental to successful realization of optimum pipeline design, performance, and maintenance. Understanding the basic properties of air or gas, and the relationship between air or gas and water in pressurized pipeline systems is necessary for safe and thorough design and operation of such systems. Air and gas, can be skillfully managed with appropriate equipment and maintenance, resulting in maximized safety, efficiency, and overall lower costs of pipeline system ownership.

Professional Background: attached

Primary Knowledge/Skills/Abilities Related to Presentation: Continuing education course author and speaker; 24 years in water industry

Education: BA Environmental Science, MSc Software Engineering

Professional Registration/Certification: OESAC, WSC

Related Papers/Instruction Given: Sampling and Flushing for Water Quality & Pipeline Maint.

Professional Organizations/Activities: OAWU, PNCWA, PNSAWWA, OLCA, O2WA, AWWA, HWEA, IRWA, ERWA

Course Sponsor: PNWS Southern Oregon Subsection

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Geoff Robinson

GEOFF ROBINSON

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Enlisted in the US Navy out of high school. Served on a guided missile destroyer in the Pacific Fleet. After the Navy, built airplanes for Lockheed and Boeing. Became involved with water and earned a master's degree in software engineering. Currently investigating quantification of greenhouse gas attributable to public and commercial wastewater, and associated utility agency implications in speculative cap and trade economies.

EXPERIENCE

2010 – PRESENT

TRAINING FACILITATOR, FRANK J MARTIN COMPANY

Continuing education course author and speaker. Primary duties: specification management, utility training support, territory management

WATER, WASTEWATER, IRRIGATION, STORMWATER

OAWU, PNCWA, PNSAWWA, OLCA, O2WA, AWWA, HWEA, IRWA, ERWA

EDUCATION

JUNE 2017

MASTER OF SCIENCE, SOFTWARE ENGINEERING, DEPAUL CDM

Thesis project: IoT edge and cloud gateway applications and supporting hardware for remote gas sensor array

MARCH 2013

BACHELOR OF ARTS, BUILT ENVIRONMENT, DEPAUL UNIVERSITY

Environmental science, water infrastructure, filmmaking, biomedical ethics

SPECIALTIES

- Water system flushing & sampling training
- Water service lateral construction training
- Air impact mitigation in pipeline systems
- Surface and storm drainage design residential/light commercial

ACTIVITIES

Active certification for CEH training in OR and WA: Site drainage design, air mitigation in pressurized pipelines, and water service lateral construction.