



American Water Works Association
Pacific Northwest Section

Southern Oregon Subsection Quarterly meeting

March 3, 2020

VIRTUAL

Instructor Background & Information

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

Presenter: Steve Truitt

Job Title: Regional Manager

Employer: Penn Valley Pump Co **Phone #:** 8473408917 **Email:** struitt@pennvalleypump.com

Summary of Lesson Content: We will discuss various aspects of pump design which can be used by consulting engineers as well as plant staff. Topics include piping and supports, gauges, switches, suction lift, TDH, NPSH, cavitation and when to use centrifugal versus positive displacement pumps. We will also discuss pump operation and maintenance. Pump troubleshooting will also be covered including tools the plant should have as well as common causes and remedies of pump issues. This information comes from lessons learned during 31+ years of work in the water and wastewater industry.

CEU Relevancy: We will discuss various aspects of pump design which can be used by consulting engineers as well as plant staff. Topics include piping and supports, gauges, switches, suction lift, TDH, NPSH, cavitation and when to use centrifugal versus positive displacement pumps. We will also discuss pump operation and maintenance. Pump troubleshooting will also be covered including tools the plant should have as well as common causes and remedies of pump issues. This information comes from lessons learned during 31+ years of work in the water and wastewater industry.

Professional Background: I have a BS in Civil Eng from University of Illinois. Registered PE in IL and CO. 31 years of experience in the water and wastewater equipment industry.

Primary Knowledge/Skills/Abilities Related to Presentation: Design, operation and troubleshooting for all types of pumps

Education: BS Civil Engineering

Professional Registration/Certification: Professional Engineer in IL and CO

Related Papers/Instruction Given: I have given this presentation and others at many other State shows over the past 30 years.

Professional Organizations/Activities: WEFTEC, AWWA, ASCE

Course Sponsor: PNWS Southern Oregon Subsection

Steve Truitt