

GENERAL SESSION

Weather Forecasting: Tools and Understanding

Philip Volker, President and Senior Meteorologist, ERF Company, Inc.

The keynote address is being presented by Phil Volker, President and Senior Meteorologist for ERF Company, Inc. ERF (Extended Range Forecast) was incorporated in 1981 and still serves their first two clients; EWEB (Eugene Water and Electric Board) and the City of Portland. Phil will share a look at internet websites that offer detailed weather information and how to use them to your advantage. We will also look at ERF's weather package to see how meteorologists interpret the forecast numbers and how to decide which way to go. We will cover models, data sites, radar, and visual images. Weather forecasting and knowhow can be beneficial in all aspects of public works tasks, so you'll want to be on time to attend this opening session.

COLLECTION SYSTEMS SESSIONS

Sewer Cleaning/TVing & Tools of the Trade (Matt Bernards, City of McMinnville)

This session will be an open discussion on customized tools and equipment that are used in collection systems and make our jobs easier. All students are encouraged to bring photos and/or tools they would like to share with the class.

The Science of Pipe Cleaning (Ken Billingham, KEG Technologies Ltd)

We will look at how nozzles are designed and what these differences mean to the owner/operator. A look at flows and pressures as well as cleaning procedures which can help get the job done more efficiently.

Pipe Plug Safety (Jared Williams, Allwest Underground)

This interactive class will be an overview of sanitary sewer pipe plugs on the market, proper terminology, and description of different styles of plugs. We will discuss proper applications, proper cleaning, and recommended storage procedures. The PowerPoint presentation will provide photos to show the difference in proper and improper procedures.

The Science of Pipe Cleaning Outdoor Demo (Ken Billingham, KEG Technologies Ltd)

After session one, we will move outdoors where the information learned will be put to practical use.

Fats Oil Grease (FOG) (Bob Trotter, Clean Water Services)

This class will focus on the prevention of grease that clog up sanitary sewer lines. We will focus on the high priority areas in city sewer lines and how often they need to be cleaned out.

Flagger Certification (Tony Jobanek, Oregon T2 Center)

Tony will cover the basics of temporary traffic control for the protection of maintenance and utility work areas. This program covers Federal and State standards, including the fundamental principles of traffic control from both part VI of the MUTCD and the Oregon Temporary Traffic Control Handbook. A 3-year flagger card will be awarded for those that attend ALL sessions of this six-hour class.

Root Control (Dan Lawrence, RootX)

The intent of this class is to educate and inform the student of the different variables of pipe line root intrusion and the methods of attacking the issues that plague our wastewater collection systems. We will cover sewer and storm line root intrusion, root growth, root intrusion variables, pipe materials, root control methods, root control chemicals and root control FAQs.

"Pipeline root intrusion is the single most destructive element involved in maintaining a wastewater collection system." U.S. Environmental Protection Agency.

Intro to Confined Space (Bill Buterbaugh, City of Eugene)

This class is an introduction to the basic procedures for working and identifying confined spaces in collection systems.

Hydro Excavation (Eric Lundy, Owen Equipment)

Hydro-excavation and proper safety are an important part of working in collection systems. This class will cover the basics of proper safety with hydro-excavation.

Locate Theory (Eric Lundy, Owen Equipment)

Join this class to learn the fundamentals of line locating in sanitary sewer systems. Eric will also teach best practices in line locating.

Preparedness Culture (Les Miller, Square Knot Preparedness Education and Coaching, LLC)

This interactive session will help any street maintenance, stormwater, or sanitary collection system crew realize they have a preparedness culture. We will teach how to develop it with some changed/new habits and tools to have greater hazard resilience and increased capability to overcome the fear associated with unusual events. Recognizing what individual, family and job routines can be modified to make you better prepared for emergencies and prevent your disasters. Simple changes can lead to a sustainable preparedness culture.

What Makes Emergency Response Successful?

(Les Miller, Square Knot Preparedness Education and Coaching, LLC)

This class will identify what you can do to make you and your team's response to an emergency on the job more successful and have the insight to know if the team has the right stuff to respond to a street maintenance, stormwater, or sanitary collection systems emergency. This interactive class focuses on how to use training, drills, and rehearsals to reach an "opening night" level of confidence for the entire team's response effort.

Basic Safety in Confined Space (Bill Buterbaugh, City of Eugene)

This presentation covers the three main roles of confined space and their responsibilities. We will discuss the unseen dangers and sewer design flaws to watch out for that show up in collection systems. We will also discuss the proper ways to wear and maintain personal protective equipment and use of an atmosphere meter.

Mitigate Roots in Collection Systems (Lloyd "Fuji" Ngariki, City of Eugene)

This class will discuss root blockages and causes in collection systems; root removal tools, tool selection and application. We will watch a video on large diameter root cuts and discuss root removal options and maintenance challenges.

Operator Math (Tad Blanton, City of Medford)

We will start with the most basic geometric math and progress thru length, area, volumetric, and eventually rate calculations; moving at the pace of the class, not the instructor. The focus of the class is to make math understandable and useable for operators in collection systems. (2-hour class)

Stormwater Best Management Practice (Lloyd "Fuji" Ngariki, City of Eugene)

An educational class on how cities perform maintenance work to meet goals set under their National Pollutant Discharged Elimination System Permit (NPDES). Videos will be used to illustrate best management practices on removing grease, oils, heavy metals and trash from cities stormwater systems with Q & A between each video. (2-hour class)

STREET MAINTENANCE SESSIONS

Radio Communication Protocol (Staci Trees, ODOT CTOC / Cindy Kenyon,)

In this course we will cover ODOT's policy on radio use. This can also serve as a best practice for other public works agencies.

RS-1 Basics of a Good Road (Tony Jobanek, Oregon T2 Center / Darrell Randall, Retired)

This is a required class for the Roads Scholar level 1 program. This session will provide an understanding of what goes into the construction and maintenance of a good road. We will cover traffic, road geometrics, drainage, materials, and pavements. (3-hour class)

Asphalt Use in Utilities: Code of Practice (W.R. Bill Bailey, Lakeside Industries)

Bill will discuss asphalt use in utilities; proper methods, application, and materials required. We will have open discussion on practical and commonsense information on pavement.

811 (Jeff Simas, 811)

Never underestimate the importance of planning. In this session will cover the importance of calling 811 before you dig and the hazards you create when you do not.

Street Sweeping and Leaf Season (Harry Crabtree Jr. / Ricardo Valladolid, City of Eugene)

We will cover some of the difficulties of street sweeping during leaf season. Discussion will include challenges and ways to overcome picking up a lot of debris, while keeping productivity and efficacy.

RS-12 Workplace Safety 2 (Sue Raynor, Oregon T2 Center)

This is a required class for the Roads Scholar Level 2 program. The class material covers workplace safety topics that include safety committees, safe lifting, ladder safety, confined space awareness, trenching, excavation and shoring awareness, and power hand tool safety. (6-hour class)

Winter Operations Equipment Safety (Everett Carroll, ODOT)

Students will enjoy Southern Oregon weather in this outdoor session discussing safe snow plow operation, deicing/salt application, and a walk-around of the snow plow.

What's Wrong with This Picture? (Don Smith, Oregon T2 Center)

This class is designed to test participants' knowledge of safety by identifying what is right or wrong with a variety of pictures and situations.

Bucking Logs (Kelly Newell / Jimmie Smith / Bruce Dodge / Bill Cessnun, ODOT)

This session will include 1 hour of classroom instruction covering safety procedures followed by 2 hours of hands on skills evaluation off site. This class is intended for road maintenance workers who may need to remove fallen trees from roadways and does not cover removal of standing trees. Class is limited to 25 pre-registered/prepaid students. Students are required to supply the following PPE: Chaps, Eye Protection, and Ear Protection. Transportation will be provided to the offsite location. (3-hour class)

Winter Personal Protection Equipment (PPE) (Sue Raynor, Oregon T2 Center)

We will discuss PPE and ideas to keep you safe during the winter months in inclement weather.

RS-2 Drainage: Key to Roads that Last (Tony Jobanek, Oregon T2 Center / Darrell Randall, Retired)

This is a required class for those in the Roads Scholar level 1 program. Tony and Darrell will address the effects of water on roadways and how to deal with it. They will also cover culverts, troubleshooting, ditching, erosion, and safety. (3-hour class)

Equipment Tie-Down (Don Smith, Oregon T2 Center)

This class covers important Federal and State Motor Carrier Requirements pertaining to equipment tie-downs. The 2-hour classroom session covers the Federal Motor Carrier Safety Administration rules on Protection Against Shifting and Falling Cargo.