

General Session

Traffic Incident Management for Public Works (Dustin Ross, Oregon Department of Transportation)

A planned and coordinated multi-disciplinary process to detect, respond to and clear traffic incidents so that traffic flow may be restored as safely and quickly as possible. TIM Responder Training brings together personnel across the responder spectrum to build a stronger, more coordinated corps at the local and national level.

Collection Systems

(All Sessions are in Alphabetical Order)

Adjustable Municipal Castings and Precast Concrete (Matt Stiller, RimRiser)

Evaluate the challenges related to the traditional methods of sanitary sewer or stormwater castings and precast concrete tops. Review Department of Transport or municipal standards for installation and grade adjustment. Discuss the advantages of new technology when choosing infrastructure replacements and maintenance applications.

Collection System Maintenance 101 (Jeff Farschon, City of Medford Public Works)

An open discussion on the challenges Sanitary Sewer Systems Operators faces today. Tips, tricks, and ideas on how to manage issues that operators see on a daily basis.

Do You Know Where Your Forcemain Is? (Jeff Hart, Clean Water Services)

Clean Water Services is responsible for locating its own pressurized sanitary sewer and recycled water pipes. When locating pipes, Clean Water Services has four readily available methods for finding the sewer pipes. This presentation will discuss the importance of locating your own sewer infrastructure and methods of performing the locates.

Equipment Best Practices for Sewer/Stormwater Equipment (Chris Young, SWS Equipment)

This presentation will focus on types of equipment currently available along with the best practices for sanitary sewer and stormwater maintenance. We will discuss methods for improving operator safety and productivity. We will finish with a review and identify criteria for the proper selection of new equipment and accessories.

Equipment ROADeo Competition (Bob Skinner, Oregon City, Dan Jones, City of Medford, Carl Ramseyer, Blake Dorning, City of Newberg, Shanon Tomasson, City of Bend)

Individuals who attend the all-day equipment training have the opportunity to participate at the end of the day to compete in the Equipment ROADeo Competition. The ROADeo will challenge the students to practice the skills they learned throughout the day to operate backhoes, loaders, excavators, graders, and skid steers safely and efficiently, all the equipment most used for public works stormwater or sanitary sewer utility repair and maintenance. This also provides a learning opportunity for all participants as they can observe how others operate. Individuals will learn new, safer, and more efficient ways to operate the equipment through peer-to-peer observation.

FOG Data Management & Outreach (Jude Brown, Pollution Prevention Resource Center)

Best management practices for collecting, managing, and utilizing Fats, Oils & Grease (FOG) data, as well as community outreach tips. This session will cover the key to successful data management and an unbiased overview of the various off-the-shelf software options that are available to POTWs and municipalities. Session will also cover community outreach strategies that can be used to build and support a successful FOG abatement program.

HAZWOPER First Responder Operations Overview (Lloyd (Fuji) Ngariki, City of Eugene Public Works)

An overview of the First Responders Operations (FRO) Level training and responsibility under the HAZWOPER Regulations. We will look at the history of HAZWOPER, the Code of Federal Regulations pertaining to FRO and how this is applied at Public Works Organization. Public workers generally response to incidents of hazardous waste cleanup such as Sanitary Sewer Overflows (SSO), illicit discharge of chemicals or contamination in public right of way like paint spills, oil or gasoline spills and unhoused camp clean-ups.

Hearing Conservation for Combination Equipment (Jen Killpack, City of Bend)

Learn the importance of hearing protection and how to protect yourself while working around combination sewer cleaning equipment or using a Jack hammer, concrete saw or a backhoe equipment during sanitary sewer pipe repair.

Investigating Slug Discharges: Why, Where, and How? (Chris Desiderati, Clackamas Water Environment Services)

Slug discharges can negatively affect the collection system infrastructure and the treatment plants they flow to. Preventing these uncontrolled, occasionally illicit, discharges to sewerage systems can feel like a game of a "whack-a-mole". Particularly with larger, complex sewer networks and large users with the potential to adversely affect the operation or maintenance of the system. Water Environment Services is rolling out a new approach to detecting and responding to these slug discharges through its Oregon DEQ-approved industrial pretreatment program to better prevent and track down sources of slug discharges to our system. It takes a team to protect our infrastructure, and this approach draws on the experience and skills of different groups in WES, including their collection system professionals.

Keep It Out of the Water (Bill Buterbaugh, ODOT T2)

How the City of Eugene engineered and modified a large existing structure to remove Hazardous Waste and Heavy Debris from the Willamette River. This structure helps us meet our Stormwater M4 permit. We will show how we maintain this structure using Confine space and Vactor truck cleaning team approach to this challenging task.

Lift Pump Rigging and Signaling (Dan Jones, City of Medford Public Works and Bob Skinner Clackamas WES)

The different hoisting methods for lift station pump removal so operators can do the required maintenance on pumps and other sewage equipment. This will be an open discussion on safety and proper methods of working with sanitary sewer equipment.

Live Equipment Training (Bob Skinner, Oregon City, Dan Jones, City of Medford, Carl Ramseyer, Blake Dorning, City of Newberg, Shanon Tomasson, City of Bend)

Participants will train alongside expert instructors to enhance their knowledge and skills on heavy equipment such as backhoes, graders, and excavators. This hands-on field training includes detailed machine walkarounds, operating techniques, and a strong emphasis on safety and efficiency. The program focuses on equipment commonly used for public works, as well as stormwater and sanitary sewer utility repair and maintenance.

Maintenance Response to Sanitary Sewer Overflows (Lloyd (Fuji) Ngariki, City of Eugene Public Works)

The class will prepare both Stormwater and Sanitary Sewer maintenance technicians for a process when responding to a Sanitary Sewer Overflow (SSO). Topics that will be covered in this presentation are SSO definitions and causes, SSO mitigation, clean-up and the regulatory reporting of an SSO to your local OERS. There will also be a table-top scenario exercise on how participants will respond to an SSO scenario that occurs in their towns or cities.

Nozzle Demo and SWS Equipment Walk-around (Chris Young, SWS Equipment)

We will provide actual nozzles to touch, examine and answer questions from participants, providing specific examples of removing debris from pipes. The nozzle demo will show different styles of nozzles, how the streams and pressure differ by using a Vac Truck and a Flow Meter with a clear tube. If time allows, students can do a walk-around of a Combo Sewer Cleaning truck and learn about different aspects and usage of this unit to make your work efficient and safe. Q&A time will be held at the end of the session.

Optimizing Sewer Maintenance Using Acoustics (Andrew Wheeler, InfoSense)

How transmissive acoustic inspection enables municipal wastewater collection system operators to transition from a reactive or time-based sewer cleaning program to a condition-based maintenance strategy where the right maintenance is done programmatically on the right pipe at the right time. Changing to this more efficient model for directing sewer cleaning activities allows system operators to stop cleaning clean pipes and direct their cleaning resources to the pipe segments with the greatest need. Making this change in approach reduces system risk while saving field operator time, flushing water, wear and tear on expensive cleaning equipment and CO2 emissions. The presentation will discuss the enabling technology in detail. We will also cover the limitations of the Sewer Line Rapid Assessment Tool, or SL-RAT, technology. Several pertinent cases studies from existing customers will be shared.

Sewer History "Past, Present, and Future" (Troy Olsen, City of Springfield)

The Worlds history of Water/wastewater collections systems, Materials, tools and techniques from our past. We discuss different Sewer materials used throughout our history and how to deal with the various problems they bring. The present practices of what we work with in the field today and what the industry holds for the future.

Sewer Inspection – How did it Start and Where is it Going? (Chris Young, SWS Equipment)

A look at the history of sewer inspection systems and how technology has advanced. This class will cover the different technologies used for pipe inspection in a sanitary sewer or stormwater conveyance system to look at pipe integrity and condition, pipe wear and defects and pipe obstruction like roots grease and gravel. See how they have evolved into what we currently use and what is in store for the future.

Using Artificial Intelligence to Code Sewer Infrastructure (Jim Brown, True North Equipment)

This class introduces Artificial Intelligence (AI) in sanitary sewer/stormwater inspection coding and reporting. With the development of AI reporting software, the class will see how software has been trained to provide accurate observation recognition as compared to the standard we use today.

Street Maintenance Session

(All Sessions are in Alphabetical Order)

Chip Seal Application and Safety (Tom Shamberger, Albina Asphalt)

The presentation will discuss why agencies chip seal and why it is the preferred method of cost-effective pavement preservation. Will discuss how to effectively prepare roads ahead of a chip seal application. The presenter will talk about chip seal application best practices and techniques to assure agencies are getting desired life cycle cost out of a chip seal. Will highlight safety practices crews need to follow to prevent injury and property damage when chip sealing.

Benefits of Crack Sealing (Gus Leal-Isla, Crafcro)

This class will review studies related to the impact and benefits of crack sealing. We will be discussing crack sealants place in a pavement management system.

Dust Control & Stabilization (Kyle Addison, Albina Asphalt)

Dust Control products and stabilization products. How they work and what products work best and where they work best.

Incident Management (Dustin Ross, ODOT)

When there is an unplanned incident, do you know how to properly respond? What are some of the struggles we face while working in a high stress environment? While working with other disciplines? This session will give you some tools and tips to help navigate the high stress environment of the road and to ensure your safety.

Road to a Successful Team (Tony Jobanek, Oregon T2 Center)

This class presents an overview of what you and your coworkers can do to help your work team become more successful. The class will discuss and describe the key elements necessary to assist your team reach its full potential. Subjects will include: the importance of positive communication, effective conflict resolution, keeping things in perspective and methods used to build a sense of team among your peers and supervisors.

RS-5 Asphalt Pavement Maintenance 1 (Darrell Randall, retired)

This is a required core class for those in the Roads Scholar Level 1 program. Class material covers the types of asphalt pavements, the causes of pavement distress and then introduces and discusses the key properties of the aggregates and binders required for good paving material. Participants will learn the best practices for pavement corrective maintenance including inlay, blade, machine patching and crack filling. Must attend all hours for credit.

RS-6 Asphalt Pavement Maintenance 2 (Darrell Randall, retired)

This is a required core class for those in the Roads Scholar Level 1 program. The class material reviews the types of asphalt pavements and the causes of pavement distress and then presents pavement preventive maintenance alternatives such as fog seals, slurry and chip seals. Must attend all hours for credit.

RS-7 Effective Communication Skills (Tony Jobanek, Oregon T2 Center)

This is a required core class for those in the Roads Scholar Level 1 program. The class presents the principles of listening, speaking and writing skills for more effective communication with the public, co-workers, supervisors and others. Group exercises will be used to practice the principles presented. Must attend all hours for credit.

RS-9 Maintenance Mathematics (Darrell Randall, retired)

This is a required class for those in the Roads Scholar Level 1 program. The class is a refresher for public works employees that use basic mathematics to provide solutions for common maintenance problems encountered in the field. Must attend all hours for credit.

RS-16 Emergency Preparedness and Response (Tony Jobanek, Oregon T2 Center)

This is a required class for those completing the Roads Scholar level 2 program. A wide range of topics are covered in this class including readiness for a variety of disasters that include natural, and man caused, disaster response and recovery, first responder responsibilities including those for HAZMAT spills and bridge assessments, emergency traffic control, the Oregon Emergency Response System and the roles and responsibilities of the Emergency Response Team. Must attend all hours for credit.

Working with Trees in the Public Right of Way (Heidi Lakics & Luke Schaub, City of Eugene Urban Forestry)

Street trees provide a myriad of benefits to the public but face high competition for space and resources in the public right of way. Street trees need regular maintenance to keep canopies lifted above the street and sidewalk and to mitigate structural issues to keep the public safe and build resiliency into the urban forest. Trees can also experience pressures from construction, development and utility work. Sometimes trees need to be removed, but sometimes preservation techniques can be implemented to work with the trees, finding solutions to issues that result in wins for all parties involved. With climate action goals and canopy coverage goals becoming more important and prevalent across the country, come join us to learn about how we can work together using a balanced approach to working with and around these tree-mendously valuable living assets.