

53<sup>RD</sup> ANNUAL  
**Road & Street**  
MAINTENANCE SUPERVISORS' CONFERENCE



September 28 - 30, 2015

YAKIMA CONVENTION CENTER  
YAKIMA, WASHINGTON

[www.roadandstreet.com](http://www.roadandstreet.com)

# SPECIAL THANKS...

We would like to gratefully acknowledge and appreciate the efforts of our planning committees.

## CONFERENCE PLANNING COMMITTEE

Larry Batterton, WSDOT  
Dana Colwell, WSU Conference Management  
Kenberley Field, EnviroTech Services Inc.  
Jim Henderson, WSDOT  
Russ Harvey, San Juan County Public Works  
Tom Lenberg, WSDOT  
Tony Leingang, WSDOT  
Dan Reijonen, WSDOT  
Scott Wagner, Walla Walla County Public Works  
Jay Wells, WSDOT  
Todd Wilson, Traffic Safety Supply  
Tom Zurfluh, Pierce County Public Works & Utilities

## TRAFFIC SOLUTIONS PLANNING COMMITTEE

Rick Butner, Pierce County  
Scott Davis, Thurston County  
Steve Martin, Pierce County  
Brian Morrow, Thurston County  
Rick Mowlds, WSDOT  
Randy Weaver, Adolfson & Peterson Construction  
Marty Weed, WSDOT

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# OPENING KEYNOTE

## LUNCH

12:00 - 1:00 PM

Room D

## Shake, Rattle & Rebound

MODERATOR

Tom Lenberg

1:00 - 2:15 PM

Sandi Doughton, Seattle Times

ROOM D

Over the past three decades, science has revolutionized our understanding of earthquake risks in the Pacific Northwest. Thanks to a generation of geologists, we now know that our region is subject to a greater variety of earthquakes—even more powerful ones—than California. Learn about the amazing detective work that has helped overturn the old dogmas, discuss what the future holds, and consider how we can best prepare.

## BREAK

2:15 - 2:45 PM

Exhibitor Hall

MONDAY

# OPENING KEYNOTE

## Post Emergency/Disaster Initial Bridge/Structure/Infrastructure Inspections

MODERATOR  
2:45 - 3:30 PM  
ROOM D

Tom Lenberg  
Jim Henderson, WSDOT

This presentation is intended to provide basic information to assist maintenance personnel in developing key initial damage assessments following an earthquake/disaster. The focus of the presentation will be on post-event initial inspections to structures/infrastructure along with reviewing material, tool and equipment requirements for inspections. We'll also spend a little time exploring what is an Emergency/Disaster; Emergency Operation Plans; and Preparation, Response and Recovery Actions.

## Keynote Q&A

MODERATOR  
3:30 - 4:00 PM  
ROOM D

Tom Lenberg  
Jim Henderson, WSDOT

**VENDOR SOCIAL** 4:00 - 6:30 PM Exhibitor Hall

**BREAKFAST** 7:00 - 8:00 AM Room D

## SESSION 1: ASPHALT

MODERATOR

Tom Zurfluh/Russ Harvey

### Gravel Road Stabilization

8:00 - 8:45 AM  
ROOM 600

Steven Jenkins, MSU- LTAP

This presentation demonstrates how to select and process the kind of material that will provide a stable driving surface for gravel roads. It outlines how to calculate quantities, assure quality, and prepare and grade material for a durable gravel road surface. We will also discuss preparation and application of dust palliatives for stabilization.

## SESSION 1: HAZARD TREES

MODERATOR

Dan Reijonen/Larry Batterton

### What Does the Washington State Parks Arbor Program Have To Do With My Roads?

8:00 - 8:45 AM  
ROOM 500

Robert Fimbel, WA State Parks

The Washington State Parks Arbor Program is responsible for addressing tree risk in developed landscapes (campgrounds, day-use areas, etc.) across a 135,000 acre park system. To advance this work, the agency has developed a relatively simple system of ranking potential tree failure and trained non-arborist field staff to apply it. Once high risk trees have been identified, the agency has *International Society of Arboriculture* certified arborists to mitigate these threats. In addition, the agency has entered into agreements with other governmental entities

to address tree risk/maintenance issues on their lands, including WSDOT, WADNR, and the USFWS. Related to roadways, Parks is currently helping WSDOT with tree risk assessments, the felling of high risk trees, and the clearing of vegetation around signs and cameras. As the program grows in Parks, opportunities may arise in the future to provide further assistance in the form of training or arbor services to other governmental institutions.

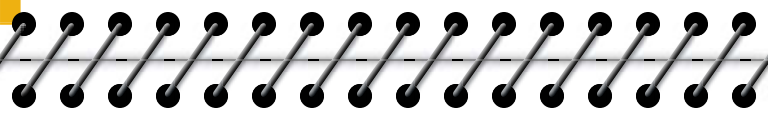
**SESSION 2: ASPHALT**

**MODERATOR** | Tom Zurfluh/Russ Harvey

**Thurston County Chip Seal and Prep Work**

**8:45 - 9:30 AM** | Lane McAllister, Thurston County Public Works  
**ROOM 600**

Thurston County Department of Public Works chip sealed 38 miles of roadway in 2015. Department staff completed all the prep work including; dig outs, pre level and crack sealing. The prep work began in the fall of 2014 and completed during the spring of 2015. The chip seal is contracted out every year. This presentation will cover the prep work completed by Thurston County staff and the contracted chip seal.



**SESSION 2: HAZARD TREES**

**MODERATOR** | Larry Batterton

**Hazard Trees**

**8:45 - 9:30 AM** | Dan Reijonen, Pend Oreille County  
**ROOM 500** | Cecil Taylor, Pend Oreille PUD  
 Chris Jones, Pend Oreille PUD

Hear how Pend Oreille County deals with hazard trees and their partnership with the PUD.

**BREAK** 9:30 - 10:00 AM Exhibitor Hall

**SESSION 3: ASPHALT**

**MODERATOR** | Russ Harvey

**Tools for Pierce County Chip Seal**

**10:00 - 10:45 AM** | Tom Zurfluh, Pierce County Public Works  
**ROOM 600**

Pierce County has implemented many different planning tools to help our Chip Seal Program be as successful as possible. We have examined our program over the years and always look for ways to improve, increase production, and lower unit costs. Working with our engineering staff, we created a decision tree that identifies roads that are candidates for the upcoming chip seal program. We take these roads and have supervisors run them using an Arc GIS program, noting all work functions and tons per function that need to be completed before the road would be eligible to be chip sealed. We have also created a mapping system that show chip seal and fog seal crews as they have finished a segment of road. This mapping systems breaks down the road into segments and gives you an accurate update of shot rate and rock rate of the road.

**SESSION 3: LEADERSHIP**

**MODERATOR** | Tom Lenberg/Jim Henderson

**A Day in the Life:  
Maintenance Manager/Supervisor**

**10:00 - 10:30 AM** | Steve McIntyre, WSDOT

**10:30 - 11:00 AM** | Bob Moorhead

**ROOM 500**

In this session, Steve McIntyre will answer the age old question: “Just what does a maintenance manager/supervisor do all day?” Also in this session, Bob Moorehead will discuss how dwindling financial resources mean that communities are better served by implementing maintenance management systems to preserve and extend the useful life of Washington’s public works’ infrastructure.

**SESSION 4: LEADERSHIP**

**MODERATOR** | Kenberley Field

**Leadership Panel Discussion**

**11:00 - 11:30 AM** | Tom Lenberg, WSDOT

**ROOM 500** | Jim Henderson, WSDOT

Roundtable discussions on leadership. What are your questions or concerns? Let’s talk communication, trust, development, values, respect, feedback, and empowerment.

**SESSION 4: ASPHALT**

**MODERATOR** | Tom Zurfluh

**Challenges of Chip Sealing in  
San Juan County**

**10:45 - 11:30 AM** | Russ Harvey, San Juan County

**ROOM 600** | Public Works

Delivery of road maintenance programs face many logistical challenges in San Juan County. This presentation will discuss the planning, organization, and cooperation required to deliver a successful chip seal program in a county made up of islands.

**LUNCH** 11:30 - 12:30 PM Room D

**SESSION 5: SNOW & ICE**

**MODERATOR** | Jay Wells/Lane McAllister

**Materials Usage:  
A Look Inside The Chemistry**

**12:30 - 2:00 PM** | Josh Trujillo, Superior Solutions, Inc.

**ROOM 600**

Over the last 100 years, the Road Maintenance Industry has evolved at an accelerating rate! With all the new technology and products on the market today, it can be a heavy task to decipher all the fluff and get the information you need. This session will present common-sense routines and suggest how to do your own “sniff test.” This interactive presentation allows encourages audience participation and touches on several hot topics. Join us for a history of de-icing that will help utilization of your equipment and products be more efficient!

## SESSION 5: ASSET MANAGEMENT

MODERATOR | Larry Batterton/Scott Wagner

### Securing Your Load: Rigging & Tarping

12:30 - 2:00 AM | Clay Tallman, Washington State Patrol  
ROOM 500 | Charles Davis, Washington State Patrol

Session will cover load securement with proper tie-downs, tarping and covering loads, pick-up and small truck safety, and width/height requirements.

**BREAK** 2:00 - 2:30 PM Exhibitor Hall

## SESSION 6: SNOW & ICE

MODERATOR | Lane McAllister

### Winter Operations Challenges

2:30 - 4:00 PM | Jay Wells, WSDOT  
ROOM 600

This session will address the multiple challenges that winter operators, supervisors and managers are forced to deal with. We will examine what unique challenges your agency/organization experiences, and work as a group to develop solutions. Our ultimate goal is to equip you with the tools and resources to go back and create positive change within your program.

## SESSION 6: ENVIRONMENT

MODERATOR | Todd Wilson/Dan Reijonen

### County Bridge Repairs and Replacement

2:30 - 4:00 PM | Sam Castro, Pend Oreille County  
ROOM 500

The course is intended to identify solutions to common county issues related to maintenance, repairs or replacement of bridges. Pend Oreille County is known for their ability to seek grants, engineer, design, and install bridges with county forces. There has been a strong interest from other counties for Pend Oreille County to share how this is accomplished with limited funding and resources. The presentation will cover these interests.

**BREAKFAST** 7:00-8:00 AM Room D

### TRAFFIC SOLUTIONS I

**MODERATOR** | Rick Butner

## NW Traffic Alliance: Agency Experiences and Challenges Limiting and Dealing with Roadway Exposure

**8:00-9:30 AM** | John Kaster, Kitsap County Public Works  
**ROOM 400** | Steve Martin, Pierce County Public Works  
Michael Mortensen, Pierce County

Key members of the NW Traffic Alliance will present current issues and challenges that participating counties and cities have been addressing, including those involving signing and markings materials, roadway striping, traffic equipment and facilities, traffic control device installation and maintenance, and specialized equipment. Bring your questions, share your ideas, and hear what other agencies are doing.

**BREAK** 9:30-10:00 AM Exhibitor Hall

### TRAFFIC SOLUTIONS II

**MODERATOR** | Scott Davis

## Extruded Plastics, Cost Effective and New Equipment Innovations

**10:00-10:45 AM** | Brian Morrow, Thurston County  
**ROOM 400** | Public Works

Get an overview of extruded versus preformed plastics, cost and time efficiency, and a discussion of how minimizing time on the road can improve worker safety. In addition, we will deliver new equipment success cases and revisit former practices.

### TRAFFIC SOLUTIONS III

**MODERATOR** | Scott Davis

## Sign Compliance...

**10:45-11:30 AM** | Joanne Conrad, TAPCO  
**ROOM 400**

We will talk about sign compliance, how the Manual on Uniform Control Devices (MUTCD) has evolved. We will also explain what you need to set up to modernize your shop. This will be very interactive.

**LUNCH** 11:30-12:30 PM Room D

### TRAFFIC SOLUTIONS IV

**MODERATOR** | Rick Butner

## What If...Is Your Safety Program Still Good Enough?

**12:30-1:15 PM** | Rhett Carpenter, Integrated Group  
**ROOM 400** | Randy Weaver, Adolfson & Peterson  
Construction

This session will give you information to help you evaluate your safety program to see if it is "good enough" or as good as it can be to protect your crew and your risk management department. What if you have a written safety program? What if your crews have never had any real safety problems? What if L&I has never cited you? What if there is an unexpected accident in your work-zone that you have no control of? Is your safety program still good enough?

## TRAFFIC SOLUTIONS V

MODERATOR | Rick Butner

### Creating a Sign Inventory and Maintenance Program with Cartegraph: Clipboard to iPad

1:15 - 2:00 PM

ROOM 400

Brandon Crosswhite, City of Gig Harbor

Jesse Savage, City of Gig Harbor

The City of Gig Harbor has a population of around 7,500. We will show the process from sign maintenance as fill-in work to a full fledged program, from reactive maintenance and records on paper to proactive maintenance and records on Cartegraph. We will also touch on other maintenance programs we are implementing with Cartegraph.

## BREAK

2:00 - 2:30 PM

Exhibitor Hall

## TRAFFIC SOLUTIONS VI

MODERATOR | Scott Davis

### MUTCD Panel Discussion

2:30 - 3:15 PM

ROOM 400

Brian Churchill, Pierce County

Traffic Engineering

Erik Martin, Lewis County Public Works

Matt Griswold, Clark County

Gordon Kelsey, Klickitat County

A panel of County and City Engineers will answer questions about the Manual on Uniform Control Devices (MUTCD). They will also provide an update on what Pierce County has done to meet the MUTCD implementation date requirements.

## TRAFFIC SOLUTIONS VII

MODERATOR | Scott Davis

### Manual on Uniform Control Devices (MUTCD) Compliance Dates and Time Line for Next Edition

3:15 - 4:00 PM

ROOM 400

Rick Mowlds, WSDOT (Olympia)

We will discuss the compliance dates for:

- Maintain minimum sign retroreflectivity
- Crashworthiness of sign supports on roads with a posted speed limit of 50 mph or higher
- One way signs
- Horizontal alignment warning signs.
- Find out where local agencies are with meeting the compliance dates.
- Thurston County and WSDOT are partnering on sign weathering rack to track sign retroreflectivity levels yearly by sign sheeting type and sheeting color.
- Low vertical clearance warning sign policy as a result of Skagit River Bridge incident.



# CLOSING KEYNOTE

**BREAKFAST** 7:00 - 8:00 AM

Room D

## The Buried Truth Uncovered

**MODERATOR**

Tom Lenberg

**8:00 - 9:30 AM**

Eric Giguere, Safety Awareness Solutions

**ROOM D**

As I left for work on the morning of October 4, 2002, little was different in my daily routine. Working in a trench roughly six feet deep I crouched down near the pipe our crew had been laying. Without warning the sides of the trench collapsed, completely engulfing me with a crushing sensation. Immediately a sense of panic set in. Panic soon gave way to fear, and fear soon subsided as well, replaced this time with a sense of warmth and well-being—I was dying...

**BREAK**

9:30 - 9:45 AM

Room D

# CLOSING KEYNOTE

## 12.5 and Still Alive

**MODERATOR**

Larry Batterton

**9:45 - 11:00 AM**

Gary Norland, Safety Presentations

**ROOM D**

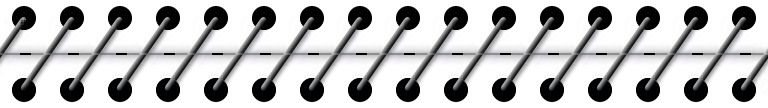
Gary Norland reveals the shocking truth of life after being hit with 12,500 volts in a motivational safety presentation for everyone from the corporate office to the factory floor. Working as an industrial electrician, Gary learned firsthand how devastating even surviving can be. After suffering electrical burns over 37% of his body and undergoing more than 50 surgeries since his accident, Gary's mission is to change attitudes about safety and save others the pain of his mistakes. He tells the truth about safety in the work place and the far reaching ripple effect it has on family, friends, coworkers, and the community you live in.

## Closing Session & Raffle

**11:00 - 11:30 AM**

**ROOM D**

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Obtain stamps from all vendors in order to qualify for the drawing. Passports will be collected Wednesday AM.

NAME (PLEASE PRINT) \_\_\_\_\_

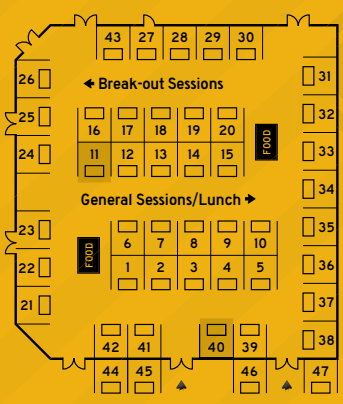
AGENCY \_\_\_\_\_

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5	6	7
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11	12	13
14	15	16
17	18	19

**DOOR PRIZE**

# DOOR PRIZE

41	42	43	44	45
38	39	40		
35	36	37		
32	33	34		
29	30	31		
26	27	28		
23	24	25		
20	21	22		



Please thank our sponsors:  
**Allied Body Works (Booth 11)**  
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