

# 2024 Northwest Pavement Management Association Conference

**November 5th —8th, 2024**  
**Best Western Plus Hood River Inn**  
**Hood River, OR**



## ***Program & Schedule***

## **Message from NWPMA Chair**

Hello and welcome to Hood River for the 2024 NWPMA Conference!

We hope that you enjoy your time in Hood River and that you come away from this week with something new that you can use at your own agency/company. Participation from local agencies, contractors, and suppliers has made the NWPMA a success for over 30 years. Whether you're a long-time NWPMA conference attendee or a newcomer, we welcome you to this year's conference.

The main goal of the NWPMA is to put on a relevant and informative conference that is worth your time and money. The networking and sharing of knowledge with other agencies is invaluable, and we hope that you benefit from the collective experiences of those at the conference as well as the connections that are made while here.

Here are a few facts about the NWPMA:

- The NWPMA is a non-profit organization with no membership fees made up of members from local agencies throughout Oregon, Washington, and Idaho.
- Board members and the conference committee are volunteers who are committed to providing an informative conference for the attendees based on local agency needs.
- The purpose of the NWPMA is to:
  - Foster mutual and beneficial relationships among members as well as with allied agencies, institutions, organizations, and business firms.
  - Improve the ability of the members to effectively and efficiently manage their pavements.
  - Promote pavement management technology transfer, research, and education.
  - Provide a common forum for the open exchange of ideas related to pavement management systems.

Join us at the Networking Social on Wednesday in the Gorge Conference Room for appetizers, beverages, bingo with prizes, and networking time with colleagues and vendors.

We hope you enjoy the conference, and please feel free to contact me during or after the conference with any questions, suggestions, or comments that you may have.

Thank you.

Ryan Miles, NWPMA Chair, City of Vancouver

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## NWPMA Executive Board



**Chair**  
 Ryan Miles  
 City of Vancouver,  
 Washington



**Secretary**  
 Kristina Schuetzle  
 Spokane County,  
 Washington



**Treasurer**  
 Becca  
 McConnaughey  
 Spokane County,  
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 Matt Powlison  
 Jefferson County,  
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**Board Member-  
 Washington**  
 Grant Williams  
 City of Ridgefield,  
 Washington



**Board Member-  
 Oregon**  
 Amanda Riley  
 City of Hillsboro,  
 Oregon



**Board Member-  
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 Monte Puymon  
 City of Walla Walla,  
 Washington



**Board Member-  
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 Scott Bryan  
 City of Portland,  
 Oregon



**Board Member-  
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 Jayson Grant  
 City of Renton,  
 Washington



**Board Member-Idaho**  
 Rick Patricelli  
 Ada County Highway District

## Calendar of Events

TUESDAY, November 5	
7:30 AM— 4:00 PM	Registration and Information  <i style="text-align: right;">Gorge Atrium</i>
8:00 AM— 12:00 PM	<i>Pavement Preservation: Construction of Quality Treatments for Preventive Maintenance</i> <i>Jason Dietz, FHWA and Scott Metcalf, Ergon Asphalt &amp; Emulsions</i> <i style="text-align: right;">Riverview</i>
	<i>Basics of Asphalt Distress Rating</i> <i>Lindsi Hammond, GRI</i>  <i style="text-align: right;">Columbia</i>
12:00 PM— 1:00 PM	Lunch Break  <i style="text-align: right;">Gorge</i>
1:00 PM— 4:30 PM	<i>Pavement Preservation: Construction of Quality Treatments for Preventive Maintenance</i> <i>Jason Dietz, FHWA and Scott Metcalf, Ergon Emulsions &amp; Asphalt</i> <i style="text-align: right;">Riverview</i>
	Pavement Peer Exchange/Roundtable <i>NWPMA Board and Attendees</i>  <i style="text-align: right;">Columbia</i>
WEDNESDAY, November 6	
7:30 AM— 4:00 PM	Registration and Information  <i style="text-align: right;">Gorge Atrium</i>
7:30 AM— 9:00 AM	Breakfast  <i style="text-align: right;">Gorge</i>
8:00 AM— 4:30 PM	Vendor Exhibits Open  <i style="text-align: right;">Trillium</i>
8:45 AM— 9:15 AM	NWPMA Conference Welcome and Opening Remarks <i>Ryan Miles, NWPMA Chair;</i> <i>Paul Blackburn, Mayor of Hood River</i>  <i style="text-align: right;">Gorge</i>

## Calendar of Events

WEDNESDAY, November 6	
9:15 AM— 9:30 AM	Networking Break
9:30 AM— 10:30 AM	Session 1: Multi-Layer Strategies & The Long-Term Benefits of Fiberized Microsurfacing Systems <i>Scott Youngren, VSS</i>  <i style="text-align: right;">Columbia</i>
	Session 2: Using Multiple Decision Trees to Optimize Budget <i>Sui Tan, Metropolitan Transportation Commission</i>  <i style="text-align: right;">Riverview</i>
	Vendor Presentation 1: Extend the Life of Your Pavement With Geosynthetics <i>Patti Murray, Solmax</i>  <i style="text-align: right;">Mountainview</i>
10:30 AM— 11:00 AM	Break
11:00 AM— 12:00 PM	Session 3: Ground Breaking Tools For Asphalt Preservation <i>Cheron Calder, Coast Pavement Services and Brent Sanchez, Prologis</i>  <i style="text-align: right;">Columbia</i>
	Session 4: Life Cycle Cost Analysis & Optimization in Network Management <i>Prashant Ram, Applied Pavement Technologies</i>  <i style="text-align: right;">Riverview</i>
	Vendor Presentation 2: Full Depth Reclamation Road Repair <i>Patrick Zellner, Asphalt Zipper and David Mills, The Dalles</i>  <i style="text-align: right;">Mountainview</i>
12:00 PM— 1:15 PM	Lunch  <i style="text-align: right;">Gorge</i>
1:15 PM— 2:15 PM	Session 5: Asphalt Materials Relating Specs to Mixture to Quality <i>John Hickey, Asphalt Paving Association of Oregon</i>  <i style="text-align: right;">Columbia</i>

## Calendar of Events

WEDNESDAY, November 6	
1:15 PM— 2:15 PM (Cont'd)	Session 6: Maintain Higher PCI with Strategic Spending on Pavement Preservation <i>David Abbas, City of Bend</i> <div style="text-align: right;"><i>Riverview</i></div>
	Vendor Presentation 3: Safety Solutions and Changes to the MUTCD <i>Heather Young, Traffic Safety Supply Co.</i> <div style="text-align: right;"><i>Mountainview</i></div>
2:15 PM— 2:45 PM	Break
2:45 PM— 4:00 PM	Session 7: Environmental Considerations in Pavement Decisions <i>Prashant Ram, Applied Pavement Technologies</i> <div style="text-align: right;"><i>Columbia</i></div>
	Session 8: Updates in Fiber Reinforced Asphalts <i>Mike Hass, Pacific Geosource</i> <div style="text-align: right;"><i>Riverview</i></div>
	Vendor Presentation 4: StreetSaver Update <i>Sui Tan, MTC/StreetSaver</i> <div style="text-align: right;"><i>Mountainview</i></div>
4:15 PM— 7:00 PM	Networking Social—Bingo <div style="text-align: right;"><i>Gorge</i></div>
THURSDAY, November 7	
7:30 AM— 3:30 PM	Registration and Information <div style="text-align: right;"><i>Gorge Atrium</i></div>
7:30 AM— 9:00 AM	Breakfast <div style="text-align: right;"><i>Gorge</i></div>
8:00 AM— 3:30 PM	Vendor Exhibits Open <div style="text-align: right;"><i>Trillium</i></div>

## Calendar of Events

Thursday, November 7	
8:30 AM— 9:30 AM	Session 9: HMA Specification Modifications to Meet Volumetrics and BMD Approaches with an E-ticketing Update <i>Kim Schofield, Washington Asphalt Paving Association</i> <div style="text-align: right;"><i>Columbia</i></div>
	Session 10: Conversion From Walking Visual Survey to Automated Survey <i>Linda Pierce, NCE</i> <div style="text-align: right;"><i>Riverview</i></div>
	Vendor Presentation 5: Albina Asphalt - Improving the Road Ahead <i>Allan Eaton, Bert Perisho, &amp; Tom Shamberger, Albina Asphalt</i> <div style="text-align: right;"><i>Mountainview</i></div>
9:30 AM— 9:45 AM	Break
9:45 AM— 10:45 AM	Session 11: Top 5 Ways to Mess Up Your Pavement Management System <i>Kurt Kiefer, QES Pavements</i> <div style="text-align: right;"><i>Columbia</i></div>
	Session 12: Scrub Seals - An Evolving Process <i>Steve Olsen, Idaho Asphalt Supply</i> <div style="text-align: right;"><i>Riverview</i></div>
	Vendor Presentation 6: The Future of Public Works: AI Conditions Assessments <i>Stacy Hanstad, Vialytics</i> <div style="text-align: right;"><i>Mountainview</i></div>
10:45 AM— 11:00 AM	Break
11:00 AM— 12:00 PM	Session 13: Blackline's Tips For A Successful Slurry Seal Program <i>Cody Lorenzen, Blackline Inc.</i> <div style="text-align: right;"><i>Columbia</i></div>

## Calendar of Events

THURSDAY, November 7	
11:00 AM— 12:00 PM (Cont'd)	Session 14: GPR Matters: Challenges with GPR in an Urban Environment <i>Kurt Kiefer, QES Pavements</i> <span style="float: right;"><i>Riverview</i></span>
	Vendor Presentation 7: Better Performing Slurry Seal and Micro Surface Products for Use in Snow Plow and Studded Tire Areas <i>Scott Metcalf, Ergon Asphalt &amp; Emulsions</i> <span style="float: right;"><i>Mountainview</i></span>
12:00 PM— 1:30 PM	Awards Banquet/Business Meeting <span style="float: right;"><i>Gorge</i></span>
1:30 PM— 2:30 PM	Session 15: Full Depth Reclamation <i>Lindsi Hammond, GRI</i> <span style="float: right;"><i>Columbia</i></span>
	Session 16: Dealing With Utilities in Paved Roadways <i>Eric Hill, American Concrete Company and Jason Armstrong, Wildish Construction</i> <span style="float: right;"><i>Riverview</i></span>
	Vendor Presentation 8: Evolution from Interlayers to "Rebar" HMA Reinforcement <i>Dennis Rogers, Tensar</i> <span style="float: right;"><i>Mountainview</i></span>
2:30 PM— 2:50 PM	Break
2:50 PM— 4:00 PM	Session 17: Improve Data Quality to Guide More Efficient Pavement Planning and Maintenance <i>Neil Ghadi and Annie Tamburro, Michelin Mobility Intelligence</i> <span style="float: right;"><i>Columbia</i></span>
	Session 18: Measuring IRI at Any Speed – the Metric Road Users Care About Most <i>Mostafa Nakhaei, ICC-IMS</i> <span style="float: right;"><i>Riverview</i></span>

## Calendar of Events

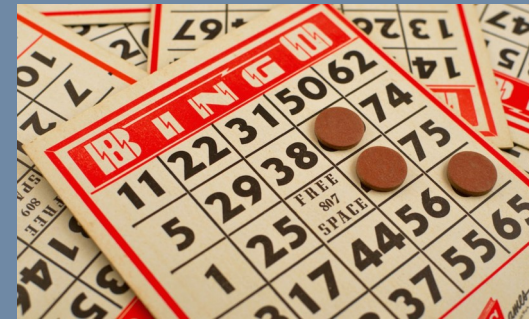
THURSDAY, November 7	
2:50 PM— 4:00 PM (Cont'd)	Vendor Presentation 9: TBD <i>TBD</i> <span style="float: right;"><i>Mountainview</i></span>
FRIDAY, November 8	
7:30 AM— 9:00 AM	Breakfast <span style="float: right;"><i>Columbia</i></span>
8:30 AM— 9:30 AM	Session 18: Smart Cities Simplified: Applying AI to Pavement Management <i>Candler McCollum, Roadway Management Technologies</i> <span style="float: right;"><i>Columbia</i></span>
9:30 AM— 10:30 AM	Pavement Management Q&A Forum <i>NWPMA Board</i> <span style="float: right;"><i>Columbia</i></span>
10:30 AM— 11:30 AM	Conference Closing and Raffle <i>NWPMA Board</i> <span style="float: right;"><i>Columbia</i></span>

## Hotel Diagram



## Networking Social

*NWPMA Board presents*  
**NETWORKING SOCIAL**



**Wednesday, November 6th, 4:15-7:00 PM**  
**Gorge**

**\$1.00 Buys You 3 Games of Bingo**

**3 Winners Per Game**

**COMPLIMENTARY APPETIZERS AND DRINKS**



## Pre-Conference Workshops

**Tuesday, November 5th, 8:00 AM—4:30 PM**

### **Pre-Conference Workshop—Pavement Preservation: Construction of Quality Treatments for Preventive Maintenance**

*Meeting Room: Riverview*

*Speakers: Jason Dietz, FHWA and Scott Metcalf, Ergon Emulsions & Asphalt*

This training is designed to provide participants with a better understanding of the value added by incorporating pavement preservation strategies into maintaining a roadway network. Gaining this better understanding will be accomplished by providing participants the opportunity to become familiar with the general concept of pavement preservation and the valuable role it plays in maintaining a roadway network. Participants will gain more detailed knowledge necessary to properly incorporate the concept of pavement preservation into maintaining an interactive workshop. The strategically placed workshops provide hands-on learning opportunities by simulating real-world situations that require participants to systematically apply knowledge gained from this training to evaluate pavement preservation applicability, identify feasible strategies and determine appropriate treatments. Examples of good practices for determining candidate projects, selecting specific strategies and applying appropriate treatments provided throughout this training will support decision-making necessary to successfully complete the workshops.

**Tuesday, November 5th, 8:00 AM—12:00 PM**

### **Pre-Conference Workshop— Basics of Asphalt Distress Rating**

*Meeting Room: Columbia*

*Speaker: Lindsy Hammond, GRI*

The presentation aims to provide an understanding of the methodologies used to assess and categorize the condition of asphalt pavements. Effective distress rating is crucial for maintenance planning and ensuring the longevity of road surfaces. Learn how to identify asphalt pavement distress types using ASTM D6433 and the StreetSaver modified ASTM methodologies.

## Pre-Conference Workshops

**Tuesday, November 5th, 1:00 PM—4:30 PM**

### **Pre-Conference Workshop—Pavement Management Peer Exchange/ Round Table**

*Meeting Room: Columbia*

*Speakers: NWPMA Board Member Panel*

*Conference Attendees*

This workshop will be an interactive discussion about pavement management activities being done in the Northwest. Topics will include project planning, use of pavement management systems, funding, preservations and paving treatments, curb ramps, inspections, and more. As part of the discussion, attendees will get the chance to exchange ideas with other agencies, contractors, suppliers, and consultants and ask questions of the NWPMA Board and other attendees.

## Technical Sessions

**Wednesday, November 6th, 8:45 AM—9:15 AM**

### **NWPMA Conference Welcome and Opening Remarks**

*Meeting Room: Gorge*

*Speakers: Ryan Miles, NWPMA Chair*

*Paul Blackburn, Mayor of Hood River*

Join us for the 2024 Conference Kick-Off. This session will include Hood River's Mayor, Paul Blackburn.

## Technical Sessions

**Wednesday, November 6th, 9:30 AM—10:30 AM**

### **Session 1: Multi-Layer Strategies & The Long-Term Benefits of Fiberized Microsurfacing Systems**

*Meeting Room: Columbia*

*Speaker: Scott Youngren, VSS*

This presentation will go in-depth into fiberized microsurfacing and slurry systems, examples of its use, where it has been used, and the performance. Fiberized Micro/Slurry and Multi-layer systems are treatment options for pavement that has a high PCI. This presentation will also cover the options available for multi-layer systems.

### **Session 2: Using Multiple Decision Trees to Optimize Budget**

*Meeting Room: Riverview*

*Speaker: Sui Tan, Metropolitan Transportation Commission*

Conventional workflows restrict pavement managers to a single decision tree for treatment strategies. Utilizing multiple decision trees allows for tailored strategies and costs based on factors like geography, urban versus rural areas, equity, and extreme weather, optimizing decision-making and budgets.

### **Vendor Presentation 1: Extend the Life of Your Pavement With Geosynthetics**

*Meeting Room: Mountainview*

*Speaker: Patti Murray, Solmax*

The presentation will include an introduction, discussion on why we use interlayers, types of interlayers, where to use interlayers, interlayer selection criteria, and case studies.

## Technical Sessions

**Wednesday, November 6th, 11:00 AM—12:00 PM**

### **Session 3: Ground Breaking Tools For Asphalt Preservation**

*Meeting Room: Columbia*

*Speakers: Cheron Calder, Coast Pavement Services and Brent Sanchez, Prologis*

Groundbreaking tools for asphalt preservation: a comparative look at current asphalt preservation methods and innovative technologies that increase efficiency, lower lifecycle costs, and benefit the environment. Including a demonstration of Site Technologies software, “a property analytics and asset intelligence platform that helps decision makers see and understand data.”

### **Session 4: Life Cycle Cost Analysis & Optimization in Network Management**

*Meeting Room: Riverview*

*Speaker: Prashant Ram, Applied Pavement Technologies*

This presentation will introduce the concepts of life-cycle cost analysis (LCCA) for pavements, outline the steps involved in the LCCA process, and explore key factors specific to pavement LCCA. Additionally, it will cover life-cycle planning (LCP) considerations for managing a pavement network, equipping asset managers to address questions such as “Are we using our funds cost-effectively?” and “What impact would a 20 percent reduction in pavement preservation funding have on our performance targets?”

### **Vendor Presentation 2: Full Depth Reclamation Road Repair**

*Meeting Room: Mountainview*

*Speakers: Patrick Zellner, Asphalt Zipper and David Mills, City of The Dalles*

Panel Discussion on Road Maintenance, Full-Depth Reclamation (FDR), and Soil Stabilization as it relates to Pavement Management and Preservation. Panelists David Mills, Transportation Manager with The City of The Dalles, Oregon, and Patrick Zeller, Retired Street Operations Manager with the City of Renton, Washington, will discuss the benefits and techniques of FDR and share their experiences implementing it.



## Technical Sessions

**Wednesday, November 6th, 1:15 PM—2:15 PM**

### **Session 5: Asphalt Materials Relating Specs to Mixture to Quality**

*Meeting Room: Columbia*

*Speaker: John Hickey, Asphalt Paving Association of Oregon*

Public works personnel want asphalt specifications that will ensure quality, but there is often confusion between how the mix design submittals relate to the specifications and how to best ensure quality material production during construction. This presentation will connect specifications to the mix design to quality and will include lessons learned from situations where there was misalignment between project goals and contract documentation. Because there is not enough time to get into detailed principles, the presentation will focus on the concepts from a big-picture perspective.

### **Session 6: Maintain Higher PCI with Strategic Spending on Pavement Preservation**

*Meeting Room: Riverview*

*Speaker: David Abbas, City of Bend*

Public works personnel want asphalt specifications that will ensure quality, but there is often confusion between how the mix design submittals relate to the specifications and how to best ensure quality material production during construction. This presentation will connect specifications to the mix design to quality and will include lessons learned from situations where there was misalignment between project goals and contract documentation. Because there is not enough time to get into detailed principles, the presentation will focus on the concepts from a big-picture perspective.

### **Vendor Presentation 3: Safety Solutions and Changes to the MUTCD**

*Meeting Room: Mountainview*

*Speaker: Heather Young, Traffic Safety Supply Co.*

This presentation will cover various safety solutions along with some of the changes from the recent update to the MUTCD.

## Technical Sessions

**Wednesday, November 6th, 2:45 PM—4:00 PM**

### **Session 7: Environmental Considerations in Pavement Decisions**

*Meeting Room: Columbia*

*Speaker: Prashant Ram, Applied Pavement Technologies*

This presentation will cover the application of environmental sustainability concepts to pavements systems. It will examine sustainability considerations at each stage of the pavement life cycle—materials, design, construction, use, maintenance, preservation, and end-of-life—that contribute to reducing the carbon footprint. Additionally, the presentation will cover methodologies for assessing pavement sustainability and highlight current national initiatives aimed at promoting low-carbon transportation materials.

### **Session 8: Updates in Fiber Reinforced Asphalts**

*Meeting Room: Riverview*

*Speaker: Mike Hass, Pacific Geosource*

This presentation will discuss multiple solutions for pavements focused on aramid fiber reinforcing and advancements in innovative solutions

### **Vendor Presentation 4: StreetSaver Update**

*Meeting Room: Mountainview*

*Speaker: Sui Tan, MTC/StreetSaver*

This presentation will cover the new Sidewalk module and the latest developments and enhancements in StreetSaver.

## Technical Sessions

**Thursday, November 7th, 8:30 AM—9:30 AM**

### **Session 9: HMA Specification Modifications to Meet Volumetrics and BMD Approaches with an E-ticketing Update**

*Meeting Room: Columbia*

*Speakers Kim Schofield, Washington Asphalt Paving Association*

This presentation will speak to the importance of allowing flexibility to standard DOT tolerance limits for gradation, asphalt content and volumetrics to meet Balanced Mix Design performance specifications. There will also be a quick update on E-ticketing.

### **Session 10: Conversion From Walking Visual Survey to Automated Survey**

*Meeting Room: Riverview*

*Speaker: Linda Pierce, NCE*

Transitioning from manual to automated pavement condition survey isn't overly complicated but does require some thought and consideration. This presentation will highlight a few things to watch for when transitioning to automated pavement condition surveys.

### **Vendor Presentation 5: Albina Asphalt - Improving the Road Ahead**

*Meeting Room: Mountainview*

*Speakers: Allan Eaton, Bert Perisho, & Tom Shamberger, Albina Asphalt*

A discussion of products and services offered by Albina with a focused discussion on chip seal options in the increased heat we are seeing in the Northwest region.

## Technical Sessions

**Thursday, November 7th, 9:45 AM—10:45 AM**

### **Session 11: Top 5 Ways to Mess Up Your Pavement Management System**

*Meeting Room: Columbia*

*Speaker: Kurt Kiefer, QES Pavements*

Pavement management systems are simply tools that, when used properly, can help optimize the allocation of limited pavement maintenance and rehabilitation funding. These systems must be implemented properly and updated routinely, otherwise the recommendations coming out of them can be disastrous in not only providing incorrect recommendation but also damaging trust between engineers, elected officials, and the general public. This presentation will focus on common mistakes encountered when implementing a pavement management system and how to avoid them.

### **Session 12: Scrub Seals - An Evolving Process**

*Meeting Room: Riverview*

*Speaker: Steve Olsen, Idaho Asphalt Supply*

This presentation will show how scrub seals can be used on asphalt pavements to help preserve existing roads as well as what goes into a scrub seal project to make it a success.

### **Vendor Presentation 6: The Future of Public Works: AI Conditions Assessments**

*Meeting Room: Mountainview*

*Speaker: Stacy Hanstad, Vialytics*

Discover how artificial intelligence (AI) is transforming the way we inspect and maintain critical infrastructure assets. Cutting-edge AI condition assessment technology leverages advanced machine learning to automatically detect and classify defects from visual data. See real-world examples of how municipalities are harnessing the power of AI to drive smarter asset management decisions, optimize maintenance spending, and extend the lifespan of aging infrastructure. Join us to learn about the future of infrastructure inspection powered by AI.

## Technical Sessions

**Thursday, November 7th, 11:00 AM—12:00 PM**

### **Session 13: Blackline's Tips For A Successful Slurry Seal Program**

*Meeting Room: Columbia*

*Speaker: Cody Lorenzen, Blackline Inc.*

This presentation will discuss slurry sealing from a contractor's perspective related to street selection, material specifications, bid packaging, and the actual construction and inspection that can help any agency have a successful slurry seal project.

### **Session 14: GPR Matters: Challenges with GPR in an Urban Environment**

*Meeting Room: Riverview*

*Speaker: Kurt Kiefer, QES Pavements*

Visually-based automated, and semi-automated pavement surface condition surveys, when used as the sole evaluation method for pavement performance, are woefully inadequate for proactively managing your pavement network. Pavement deterioration occurs from within the structure and takes place over time. By the time we see structural cracking on the pavement surface, the pavement is fast approaching the end of its life. Ground Penetrating Radar (GPR), in combination with pavement structural testing using a Falling Weight Deflectometer (FWD) can help improve the selection of pavement rehabilitation activities and help agencies better understand the performance (i.e., remaining service life) of their pavement infrastructure. This presentation will address how GPR and pavement structural testing techniques may be best applied in an urban environment and how agencies may use these techniques to improve the performance of their pavements.

### **Vendor Presentation 7: Better Performing Slurry Seal and Micro Surface Products for Use in Snow Plow and Studded Tire Areas**

*Meeting Room: Mountainview*

*Speaker: Scott Metcalf, Ergon Asphalt & Emulsions*

This presentation will take a look at how selecting the right materials can help both slurry seal and microsurfacing treatments better withstand the effects of snow plows and studded tires.

## Technical Sessions

**Thursday, November 7th, 1:30 PM—2:30 PM**

### **Session 15: Full Depth Reclamation**

*Meeting Room: Columbia*

*Speaker: Lindsy Hammond, GRI*

Full Depth Reclamation (FDR) is a pavement rehabilitation technique designed to restore and improve deteriorating roadways. It involves the complete recycling of existing pavement materials, using stabilizing agents, and constructing a new road base. As infrastructure needs grow, FDR presents a viable solution for maintaining road networks with a blend of economic, environmental, and performance benefits. We will discuss how to identify good candidate for FDR, field sampling, laboratory testing, design, and construction considerations.

### **Session 16: Dealing With Utilities in Paved Roadways**

*Meeting Room: Riverview*

*Speaker: Eric Hill, American Concrete Company and Jason Armstrong, Wildish Construction*

Nearly all public roadways have utilities in them, from storm and sanitary manholes, water valves and more. At the completion of paving those utilities need to flush, smooth and well compacted to provide the best roadway possible. Typically contractors either work around the utilities in place or raise them back to the final elevation once paving is completed. With the advancement of equipment today, the best product can be achieved while saving labor and equipment time based on the method selected.

### **Vendor Presentation 8: Evolution from Interlayers to "Rebar" HMA Reinforcement**

*Meeting Room: Mountainview*

*Speaker: Dennis Rogers, Tensor*

This session will cover HMA pavement assessment, design and specifications using HMA reinforcements to achieve more cost-effective increased traffic capacity, maximum crack mitigation and define recycling to ensuring total milling and recycling of RAP containing that reinforcement can be added back into a new HMA

## Technical Sessions

**Thursday, November 7th, 2:50 PM—4:00 PM**

### **Session 17: Improve Data Quality to Guide More Efficient Pavement Planning and Maintenance**

*Meeting Room: Columbia*

*Speaker: Neil Ghadi and Annie Tamburro, Michelin Mobility Intelligence*

In the realm of infrastructure management, the quality of data plays a pivotal role in the effectiveness of pavement planning and maintenance. This presentation delves into the critical importance of high-quality data in guiding decisions that enhance the efficiency and longevity of pavement systems. We will explore what constitutes high-quality data and its attributes, such as accuracy, completeness, consistency, and timeliness.

Improved data quality can lead to more precise and effective pavement planning, reducing costs and optimizing resource allocation. Reliable data is essential in developing proactive and reactive maintenance strategies that extend pavement life and improve safety.

Additionally, we will highlight the latest technologies and methodologies for collecting, analyzing, and utilizing data in pavement management. Real-world examples and best practices from successful pavement management programs that have leveraged high-quality data will be presented. Join us to learn how enhancing data quality can transform pavement planning and maintenance, leading to more sustainable and cost-effective management.

### **Session 18: Measuring IRI at Any Speed – the Metric Road Users Care About Most**

*Meeting Room: Riverview*

*Speaker: Mostafa Nakhaei, ICC-IMS*

This research study introduces a novel approach to measuring the structural number (SN) without the need for GPR testing or extensive pavement coring. This is particularly significant for network-level structural testing, where layer thickness information is often unavailable, and acquiring it can be prohibitively time-consuming and expensive. The new methodology has demonstrated effectiveness with both Traffic Speed Deflectometer Devices (TSDDs) and Falling Weight Deflectometers (FWDs).

## Technical Sessions

**Friday, November 8th, 8:30 AM—9:30 AM**

### **Session 20: Smart Cities Simplified: Applying AI to Pavement Management**

*Meeting Room: Columbia*

*Speaker: Candler McCollum, Roadway Management Technologies*

A look into how the City of Portland is using GIS data to help with pothole repairs as well as how this data can be used for other asset related maintenance and pavement work.

**Friday, November 8th, 9:30 AM—10:30 AM**

### **Pavement Management Q&A Forum**

*Meeting Room: Columbia*

*Speakers: NWPMA Board*

Artificial intelligence and smart city initiatives are revolutionizing infrastructure management across the US. Agencies are leveraging automation, real-time data, and machine learning to optimize preservation treatments and budget efficiency. Explore how the integration of AI systems for project candidate selection and predictive modeling for funding scenarios enhances the capabilities of public works and engineering professionals in both short-term responsiveness and long-term planning.

**Friday, November 8th, 10:30 AM—11:30 AM**

### **NWPMA Conference Closing and Raffle**

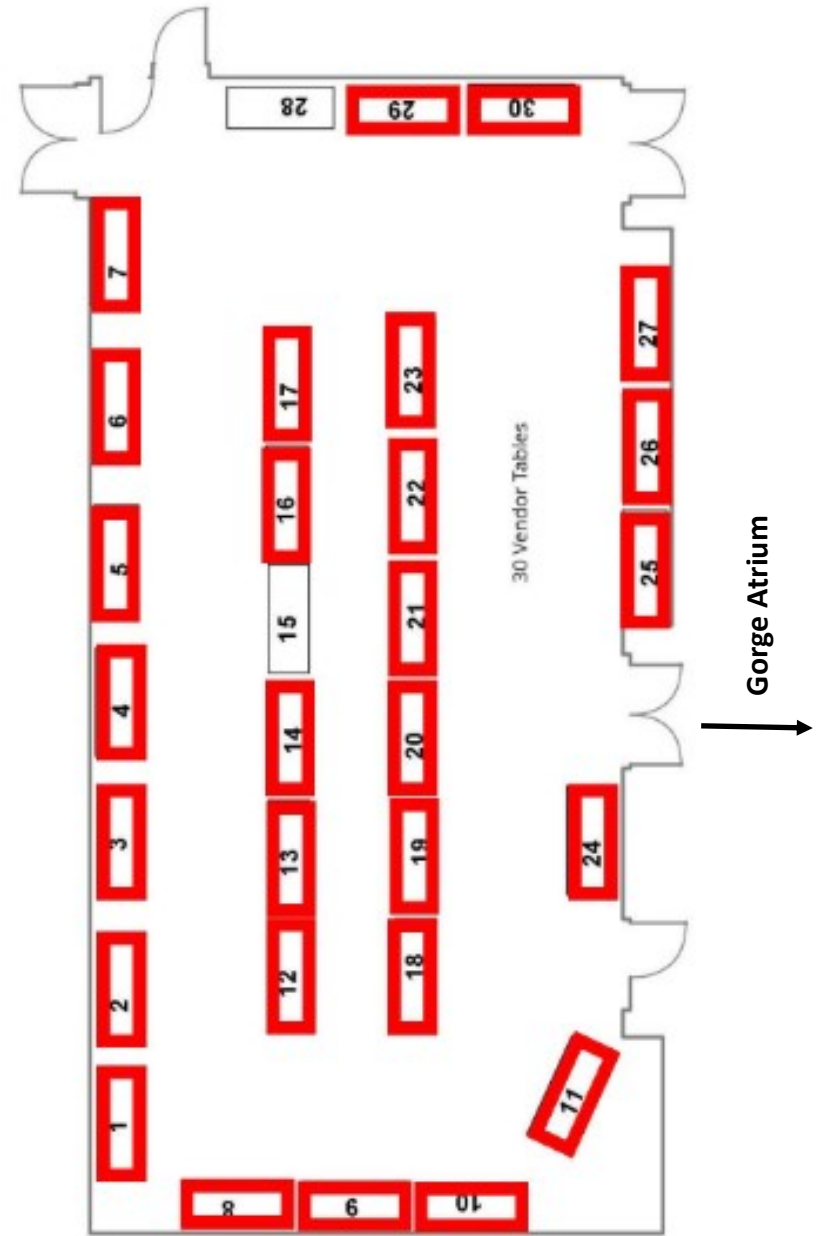
*Meeting Room: Columbia*

*Speakers: NWPMA Board*



## Notes

## Vendor Booth Layout



**Vendor List/Card**

- 1. Sierra Santa Fe \_\_\_\_\_
- 2. Stepp Manufacturing \_\_\_\_\_
- 3. VSS International \_\_\_\_\_
- 4. K&L Supply \_\_\_\_\_
- 5. Dustpods \_\_\_\_\_
- 6. Doolittle Construction \_\_\_\_\_
- 7. ARA \_\_\_\_\_
- 8. Idaho Asphalt \_\_\_\_\_
- 9. SealMaster \_\_\_\_\_
- 10. Lakeside EZ Street Asphalt \_\_\_\_\_
- 11. Traffic Safety Supply \_\_\_\_\_
- 12. Coast Pavement Services \_\_\_\_\_
- 13. Ergon Asphalt & Emulsions \_\_\_\_\_
- 14. Crafc0 \_\_\_\_\_
- 15. \_\_\_\_\_
- 16. Solmax \_\_\_\_\_
- 17. Albina Asphalt \_\_\_\_\_
- 18. Forta \_\_\_\_\_
- 19. CAPS \_\_\_\_\_
- 20. StreetSaver \_\_\_\_\_

**Additional on page 30**

**Vendor List/Card**

- 21. GRI \_\_\_\_\_
- 22. Better Roads by Michelin \_\_\_\_\_
- 23. Asphalt Zipper \_\_\_\_\_
- 24. Unique Paving Materials \_\_\_\_\_
- 25. Tensar \_\_\_\_\_
- 26. Vialytics \_\_\_\_\_
- 27. Maxwell Products \_\_\_\_\_
- 28. \_\_\_\_\_
- 29. Streetscan/StreetLogix \_\_\_\_\_
- 30. Alpine Products/AramSCO \_\_\_\_\_

**Visit all the vendors and save this sheet for prizes on Friday during the conference closing. Must be present to win.**

**Name:** \_\_\_\_\_

**Agency:** \_\_\_\_\_



## Notes

## Past Pavement Managers of the Year

- 1 1993-1994 Howard Hamby, Spokane County WA
- 2 1994-1995 Bill Whitcomb, City of Vancouver, WA
- 3 1994-1995 Eric Edwards, Pierce County, WA
- 4 1995-1996 Sue Schutze, Benton County, WA
- 5 1996-1997 Dave Shepard, Clark County, WA
- 6 1997-1998 Dave Nichols, Thurston County, WA
- 7 1998-1999 Vicki Griffiths, Skagit County, WA
- 8 1999-2000 Chuck Greninger, Grays Harbor County, WA
- 9 2000-2001 Bill McEntire, Clark County, WA
- 10 2001-2002 Joel Conder, Marion County, WA
- 11 2002-2003 Michael Rybka, Marion County, WA
- 12 2003-2004 Lee Rawlings, City of Kennewick, WA
- 13 2004-2005 Matt Fengler, City of Tacoma, WA
- 14 2005-2006 Dennis Hughes, City of Gresham, OR
- 15 2006-2007 Pat Ryan, Washington County, OR
- 16 2007-2008 Becca McConnaughey, Spokane County, WA
- 17 2008-2009 Jen Steward, Kittitas County, WA
- 18 2009-2010 George Alton, Ada County, ID
- 19 2010-2011 Bob Brooks, WSDOT-LTAP Center
- 20 2011-2012 Debbie Martisak, City of Beaverton, OR
- 21 2012-2013 Terri Eliooff, City of Vancouver, WA
- 22 2013-2014 Jenifer Willer, City of Eugene, OR
- 23 2014-2015 Brian Oberding, City of Portland, OR
- 24 2015-2016 Teresa Becker, City of Bellevue, WA
- 25 2016-2017 Deborah Dickson, City of Eugene, OR
- 26 2017-2018 Matt Powlison, City of Oregon City, OR
- 27 2018-2019 David Luhr, Washington State Department of Transportation
- 28 2019-2020 Chris Sneider, City of Vancouver, WA
- 29 2021-2022 Scott Smith, City of Prineville, OR
- 30 2022-2023 Bert Olheiser, City of Tualatin, OR
- 31 2023-2024 Greg Hayes, City of Hillsboro

## 2024 NWPMA Conference Survey

The NWPMA would appreciate if you would take a few minutes to answer the following questions on the conference so we may continue to improve our efforts.

What days were you able to attend the conference?

- Tuesday     Wednesday     Thursday     Friday

Registration:

- Conference Attendee     Vendor

How would you rate the conference agenda? (1 = Poor → 10 = Excellent)

- ①     ②     ③     ④     ⑤     ⑥     ⑦     ⑧     ⑨     ⑩

Suggestions/Comments:

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How did you like your hotel room? (1 = Poor → 10 = Excellent)

- ①     ②     ③     ④     ⑤     ⑥     ⑦     ⑧     ⑨     ⑩

Suggestions/Comments:

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How were the meeting facilities? (1 = Poor → 10 = Excellent)

- ①     ②     ③     ④     ⑤     ⑥     ⑦     ⑧     ⑨     ⑩

Suggestions/Comments:

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How well did you like the food? (1 = Poor → 10 = Excellent)

- ①     ②     ③     ④     ⑤     ⑥     ⑦     ⑧     ⑨     ⑩

Suggestions/Comments:

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## 2024 NWPMA Conference Survey

How was the vendor room set-up? (1 = Poor → 10 = Excellent)

- ①     ②     ③     ④     ⑤     ⑥     ⑦     ⑧     ⑨     ⑩

Suggestions/Comments:

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Would you like to have access to the presentations on video?

- Yes     No

Are you interested in participating in the board or conference committee:

- Yes     No

If yes, please provide your name, email, and phone number at the registration desk or here:

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Help us plan for the future. Are there any topics you are interested in learning more about and speakers you could suggest?

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General Comments:

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Please turn in the survey in the basket at the registration desk with your name tag before leaving the conference.

Thank you!

The 2024 NWPMA Board and Conference Committee

## Special Thanks

*Special thanks to the following individuals who have dedicated their time to the organization and the conference.*

Chris Cafaro, City of Spokane  
 Greg Hayes, City of Hillsboro  
 Karen Carlie, WSDOT  
 Tina Bailey, City of Hillsboro  
 Arsenica Perez, City of Portland  
 Connie Lawson, City of Vancouver  
 Brandy Osborn, City of Vancouver  
 Karen Strauss, WSDOT

## Honorary Board

*And thanks to our Honorary Board members whose leadership has left a fingerprint on this organization!*

Howard Hamby, Spokane County, WA — Retired  
 Ruth McIntyre, WSDOT  
 Don Zimmer, CRAB — Retired  
 Eric Edwards, Pierce County, WA  
 Patrick Ryan, Washington County, OR — Retired

## THANK YOU GOLD SPONSORS!

