



2021 National Pavement Preservation Conference *Presentation Table of Contents*

Session 1: May 17

Opening Session

Moderator – Judith Corley-Lay, NCPP

“Kick-off” - issues associated with infrastructure legislation, particularly those relating to pavement preservation. FHWA will discuss their program initiatives related to preservation, including the Pavement Preservation Guide and Strategic Plan.

Welcome – George Conner, TSP2 and AASHTO Maintenance Committee Chair

FP2 Update – Tim Harrawood, FP2

FHWA Update – Hari Kalla, FHWA

Session 2: May 17

Equipment and Placement Process

Moderator – Jim Moulthrop, FP2

Introduce the sequential types of equipment and process needed to achieve quality treatments. Presentation on control systems. Industry sponsors use photographs/slides or videos to show the process of placing the most common preservation treatments. Includes crack treatments, chip seals, micro surfacing and slurry seals, ultra-thin bonded wearing course, thin lift asphalt overlays and other treatments (concrete preservation, HIP, CIP, etc.)

Advancing Preservation Through Control Systems – Scott Bergkamp, Bergkamp Inc.

Crack Treatments - Proper Equipment for Successful Crack Treatments, Bryan Darling, Crafcro

Chip Seal - Jordan Tarsovich, Slurry Pavers, Inc.

Micro Surfacing/Slurry Seals - Scott Metcalf, Ergon

UTBWC - Robert Betsold, All States Materials Group

Thin Lift Asphalt Overlay – Jason Dietz, FHWA

Hot in Place Recycling – Brian Hansen, Dustrol

Diamond Grinding - John Roberts, IGGA

Full Depth Repair – Matt Ross, CTS Cement

Session 3: May 18

Pavement Preservation Basics

Moderator – John Senger, Illinois DOT

“Top 10” list of components for a successful preservation program, assess the strengths of their programs and areas for improvement. The session includes an introduction to the major preservation treatments for both asphalt and concrete pavements. The final presentation focuses on using the available data to make decisions.

Case Study: Transverse Pavement Profile Certification Results – Lauren Tran, Pathway Services, Inc.

Keys to a Successful Preservation Program – Jon Wilcoxson

Asphalt Treatments – Larry Tomkins, Ergon Asphalt & Emulsions, Inc.

Concrete Treatments – Larry Scofield, IGGA/ACPA

Using Available Data to Make Decisions – Charles Pilson, Kercher Group

Session 4: May 18, 2021**Asphalt Emulsions****Moderator** – Todd Shields, Indiana DOT

This session introduces the key definitions relative to emulsions and their importance to many preservation treatments. It moves beyond the basics to discuss modifiers and their types and purposes. A discussion of the manufacturing process is followed by sampling and testing methods. Finally, the introduction to emulsions is concluded with a presentation on handling and laydown to achieve a quality project.

Emulsion 101 – Chris Lubbers, Kraton Polymers**Modifiers** – C.J. DuBois, Dow**Manufacturing** – Andrew Braham, University of Arkansas**Sampling and Testing** – Shelly Cowley**Handling and Laydown** – Phil Blankenship**Session 5: May 19, 2021****Concrete Pavement Preservation****Moderator** – Kim Schofield, Washington DOT

This session will include presentations on the most common treatments for concrete pavement preservation. These include partial depth repairs for concrete spalling, full depth repairs for damage that is too extensive or deep for partial depth repairs, joint sealing to eliminate water intrusion in joints and dowel bar retrofit to restore load transfer across the joints. Diamond grinding is frequently the final treatment prior to joint sealing and improves ride quality.

Partial Depth Repairs – Mike Nelson, IN DOT**Full Depth Repairs** – John Donahue, MO DOT**Joint Sealing** – Kurt Smith, APTech**Dowel Bar Retrofit** – Linda Pierce, NCE**Diamond Grinding** – John Roberts, IGGA**Session 6: May 19, 2021****Pavement Recycling****Moderator** – Kevin Robertson, Arizona DOT

Session begins with a presentation on project selection, as proper project selection is key to a successful project. Following this is a series of presentations on hot in place recycling, cold in place recycling and cold central plant recycling. Also includes a presentation on best practices for managing RAP stockpiles.

Project Selection – Steve Cross, ARRA**Hot in Place** – Todd Gonser, Cutler Repaving**Cold in Place** – Jason Wielinski, Asphalt Materials Inc.**Cold Central Plant** – Steve Cross, ARRA**Best Practices for RAP Stockpile Management** – Don Matthews, Pavement Recycling Systems**Session 7: May 20, 2021****Preservation Related Research****Moderator** – Adriana Vargas, NCAT

Updates on recent and ongoing research related to pavement preservation. Includes performance studies at NCAT and MnROAD, several NCHRP projects, development of cracking definitions that are suitable for automated crack measurements, advances in 3-D imaging for pavement distress, and development of performance-related specification for emulsified asphalt binder.

Case Study: Boosting the Accuracy of VDOT's Pavement Data – Michael Robson, Fugro**Advances in 3-D Automated Distress** – James Tsai, Georgia Tech**NCAT and MnROAD Updates** – Buzz Powell, NCAT**Impacts of Preservation Treatments on Pavement Performance** – Gonzalo Rada**Cracking Definitions** – Kelvin Wang, Oklahoma State**National Performance-Related Specifications for Emulsified Asphalt Binder** – Mike Anderson, Asphalt Institute

Session 8: May 20, 2021

Training, Certification and Accreditation

Moderator – Robert Blight, NJ DOT

A variety of topics relating to training, certification, and accreditation. Minnesota DOT has developed knowledge books to assure transfer of information when retirement or position vacancies occur. TSP2 Pavement Preservation Certification is being updated to include online testing as well as an option for Spanish language exams for contractors. The AASHTO laboratory accreditation process will be presented. Two training programs are included: Kentucky's preservation training program, and training for local agencies in California.

MNDOT Knowledge Books – Gordy Bruhn, MN DOT

TSP2 Pavement Preservation Certification – Neal Galehouse, NCPP

AASHTO Laboratory Accreditation – Amanda Moser and Jon McCabe, AASHTO

Kentucky Training Program – Chad Shive, KY Transportation Cabinet

Training for Local Agencies in California – John Harvey, UC Davis

Session 9: May 21, 2021

Local Agency Approaches

Moderator – Eric Thibodeau, New Hampshire DOT

Session is focused on local agencies and begins with a presentation on how to integrate preservation into local agency programs. The impact and value of preservation for municipalities, counties and local agencies are presented by those working in these areas. The final presentation focuses on how to build a successful local program.

Integrating Preservation into Local Agency Programs – Aaron Gerber, Kercher Group

Impact of Pavement Preservation on Municipalities – Chris McGee, City of Raleigh

Value of Pavement Preservation to County Agencies – Todd Kinney, Clinton County

The Importance of Preservation to Local Agencies – Austin Potts, Polk County

Building Successful Local Programs – Richard Turner, Charleston County