



Main Agenda	5
Bridge	13
Equipment	15
Maintenance Operations	17
Pavement	19
Roadway/Roadsides	21

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WELCOME



TO THE AASHTO SUBCOMMITTEE ON MAINTENANCE 2016 ANNUAL MEETING



Dear Colleagues,

Welcome to Nevada and to the annual AASHTO Sub-Committee on Maintenance Conference.

We are excited to host this conference in Clark County, the heartbeat of Southern Nevada, encompassing almost 8,000 square miles, five cities, and the Las Vegas Strip. An estimated 45 million people visit Clark County annually. Wherever you go, we think you'll enjoy our extraordinary landscapes and historic locations, friendly people, and the wide variety of recreational opportunities.

The conference planners have done an exceptional job of coordinating the agenda for this conference. It is an excellent collection of maintenance topics that are very relevant to the challenges and demands we face each day operating and maintaining our transportation system. We hope that you are able to take away key points from this conference that will help improve your state maintenance operations.

Thanks for investing the time to attend this conference. If any of our staff can be of assistance to you during your stay, please do not hesitate to ask. Enjoy the conference and have a great time here in Nevada.

Sincerely,

Rudy Malfabon, P.E.
Director, Nevada DOT

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MAIN AGENDA



Saturday, July 16, 2016

8:00 a.m.–5:00 p.m.

Pre-Conference Meeting/AASHTO SICOP Meeting Copa

This meeting is for winter maintenance planning technical services program members.

8:00 a.m.–Noon

Registration and Information Renaissance Foyer

Sunday, July 17, 2016

6:30 a.m.–7:00 a.m. and

Noon–5:00 p.m.

Registration and Information Renaissance Foyer

7:00 a.m.–Noon

Nevada Technical Tour Hoover Dam/Bridge

Buses will leave the Renaissance Hotel promptly at 7:00 a.m.

1:30 p.m.–5:30 p.m.

AASHTO SCOM Leadership Meeting Copa

This meeting is for SCOM Chairs, Vice Chairs, and FHWA Liaisons. All others by invitation only.

8:00 a.m.–6:00 p.m.

Vendor Setup Renaissance II & III

6:00 p.m.

Vendor/SCOM Introduction Meeting Renaissance II & III

Monday, July 18, 2016

7:00 a.m.–5:00 p.m.

Registration and Information Renaissance Foyer

7:00 a.m.–9:00 a.m.

Breakfast Renaissance II & III

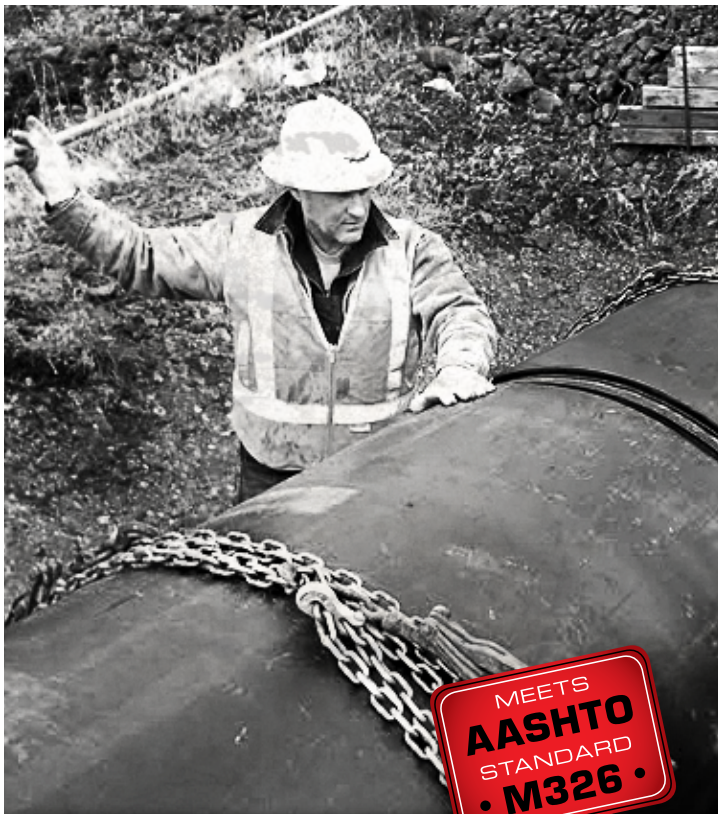
7:15 a.m.–8:00 a.m.

SCOM Orientation Breakfast Copa A & B

Russ Yurek, Maryland DOT

Steve Lund, Minnesota DOT, Presiding

- Description of SCOM and TWGs
- Introduction of TWG Chairs & Vice Chairs



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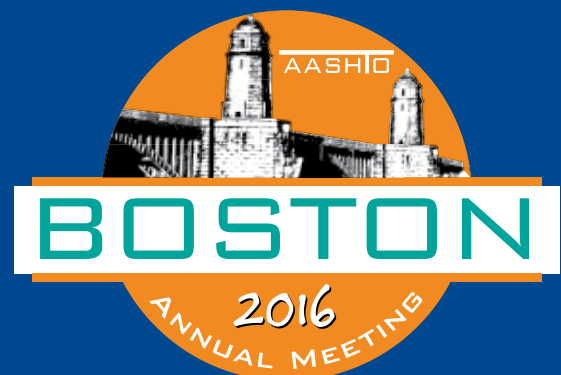
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AASHTO 2016 ANNUAL MEETING



SUNDAY, NOVEMBER 13
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8:00 a.m.–10:00 a.m.

Opening Session Renaissance I

Mark McConnell, *Mississippi DOT, Presiding*

Color Guard/National Anthem

Welcome | *Rudy Malfabon, Director Nevada DOT*

SCOM Update | *Mark McConnell, Mississippi DOT*

FHWA Welcome/FAST Act Maintenance Update | *Bryan Cawley, FHWA and Hari Kalla, FHWA*

AASHTO Update | *Gummada Murthy, AASHTO*

10:00 a.m.–10:30 a.m.

Break Renaissance II & III

10:30 a.m.–Noon

Opening Session Renaissance I

Connected and Autonomous Vehicles on Maintenance

Gummada Murthy, *AASHTO, Moderator*

Paul Pisano, *Team Leader, Road Weather and Work Zone Management, Office of Operations, FHWA*

John Barton, *Assistant Vice Chancellor, Texas A&M University*

Tracy Larkins, *Deputy Director, Nevada DOT*

Andrew Roberts, *Director, Business Development, Royal Truck & Equipment*

Dean Deeter, *V2I Deployment Coalition Team Lead, and President, Athey Creek Consultants*

Noon–1:00 p.m.

Lunch Renaissance II & III

1:00 p.m.–3:00 p.m.

TECHNICAL WORKING GROUP BREAKOUT SESSIONS

Bridge Capital

Equipment Copa

Pavement Paramount

3:00 p.m.–3:30 p.m.

Break Renaissance II & III

3:30 p.m.–5:00 p.m.

TECHNICAL WORKING GROUP BREAKOUT SESSIONS

Maintenance Operations Rainbow

Roadway/Roadside Five Spot

5:00 p.m.

Adjourn (Dinner on your own)

Tuesday, July 19, 2016

7:00 a.m.–5:00 p.m.

Registration and Information Renaissance Foyer

7:00 a.m.–8:00 a.m.

SCOM Leadership Breakfast Paramount

Mark McConnell, Mississippi DOT, Presiding

This meeting is open to all SCOM TWG Chairs, Vice Chairs, and FHWA Liaisons.

7:00 a.m.–9:00 a.m.

Breakfast Renaissance II & III

8:00 a.m.–9:30 a.m.

General Session Renaissance I

Mark McConnell, Mississippi DOT, Presiding

Technical Services Program Updates

SICOP Program Update | Rick Nelson, SICOP

TSP2 Program Update | Larry Galehouse, NCPP

EMTSP Program Update | Lisa Kunzman, California DOT

TC3 Program Update | Jim Feda, South Carolina DOT

TRB & NCHRP Update | James Bryant, TRB, and Amir Hanna, NCHRP

9:30 a.m.–10:00 a.m.

Break Renaissance II & III

10:00 a.m.–Noon

TECHNICAL WORKING GROUP BREAKOUT SESSIONS

Equipment Copa

Maintenance Operations Rainbow

Roadway/Roadside Five Spot

Noon–1:00 p.m.

Lunch Renaissance II & III

1:00 p.m.–2:30 p.m.

TECHNICAL WORKING GROUP BREAKOUT SESSIONS

Bridge Capital

Pavement Paramount

2:30 p.m.–3:00 p.m.

Break Renaissance II & III

3:00 p.m.–5:00 p.m.

AASHTO REGIONAL MEETINGS

NASTO Paramount

Russ Yurek, Maryland DOT, Presiding

SASHTO Rainbow

Heath Patterson, Mississippi DOT, Presiding

MAASTO Copa

Steve Cook, Michigan DOT, Presiding

WASHTO Capital
Lonnie Hendrix, Arizona DOT, Presiding
5:00 p.m.
Adjourn (Dinner on your own)

Wednesday, July 20, 2016

7:00 a.m.–5:00 p.m.
Registration and Information Renaissance Foyer

7:00 a.m.–9:00 a.m.
Breakfast Renaissance II & III

8:00 a.m.–10:00 a.m.

TECHNICAL WORKING GROUP BREAKOUT SESSIONS

Bridge Capital

Maintenance Operations Rainbow

Roadway/Roadside Five Spot

10:00 a.m.–10:15 a.m.

Break Renaissance II & III

10:15 a.m.–Noon

TECHNICAL WORKING GROUP BREAKOUT SESSIONS

Equipment Copa

Pavement Paramount

Noon–1:00 p.m.

Lunch Renaissance II & III

1:00 p.m.–3:00 p.m.

General Session Renaissance I

Russ Yurek, Maryland DOT, Moderator

1. Nevada DOT State Maintenance Update | Anita Bush, Nevada DOT
2. Current Status of Performance Management (Data, Analytics, and Reporting) | Francine Shaw-Whitson, FHWA
3. AASHTO NTPEP Update | Ernay Robinson-Perry, Georgia DOT
4. NCHRP Domestic Scan 14-01 | Katie Zimmerman, Applied Pavement Technology, and Mark McConnell, Mississippi DOT
5. Use of Drones for Maintenance/Bridge Inspections | Steve Cook, Michigan DOT

3:00 p.m.–3:30 p.m.

Break Renaissance Foyer

3:30 p.m.–5:00 p.m.

General Session Renaissance I

Steve Lund, Minnesota DOT, Moderator

1. NCHRP Project 14-29 Assessing, Coding and Marking of Highway Structures in Emergency Situations | Dr. Michael Olsen, Oregon State University
2. Maintenance Peer Network—MQA Library Update | Jennifer Brandenburg and Lacy Love, Volkert
3. NCHRP Project 14-31 Framework for Pavement Maintenance Database Systems | George White, Pavia Systems Inc.
4. Nevada I-15 Corridor and Bypass Projects | Anita Bush, Nevada DOT

5:00 p.m.

Adjourn



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5:30 p.m.

Closing Event | Night at the Museum *The Mob Museum*
The Night at the Museum will be a flow-thru venue with food, drinks, and networking opportunities from 6:00–9:00 p.m.
Buses will leave the Renaissance Hotel promptly at 5:30 p.m.

Thursday, July 21, 2016

7:00 a.m.–Noon

Registration and Information *Renaissance Foyer*

7:00 a.m.–9:00 a.m.

Breakfast *Renaissance II & III*

8:00 a.m.–11:00 a.m.

Subcommittee on Maintenance Business Meeting *Renaissance I*

Non-SCOM members are invited to attend the Business Meeting as observers.

Mark McConnell, *Mississippi DOT, Presiding*

Technical Working Group Reports

- Bridge
- Equipment
- Maintenance Operations
- Pavement
- Roadway/Roadside

Regional Meeting Reports

Resolutions

SCOM 2017 | Providence, Rhode Island

Joseph Bucci, *Rhode Island DOT*

11:00 a.m.

Adjourn

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BRIDGE

Chair: **Jeffrey L. Milton, Virginia DOT**
Vice Chair: **Steven J. Cook, Michigan DOT** (Research and Workforce Development)
Vice Chair: **David R. Miller, Louisiana DOT** (Performance Measures and Environmental)
FHWA Liaison: **Morgan Kessler, FHWA**

MONDAY, JULY 18, 2016

1:00 p.m.—3:00 p.m.

Capital

Welcome & Introductions | *Jeff Milton, Virginia DOT* | 5 minutes
Review of Work Plan Accomplishments | *Jeff Milton, Virginia DOT* | 15 minutes
Remarks by Vice Chairs | *Steve Cook, Michigan DOT, and David Miller, Louisiana DOT* | 10 minutes
Develop Research Needs Statements | *All* | 30 minutes
Develop Resolutions | *All* | 30 minutes
Develop Work Plan for 2015–2016 | *All* | 30 minutes

TUESDAY, JULY 19, 2016

1:00 p.m.—2:30 p.m.

Capital

Technical Presentation—Nevada Bridge Program | 15 minutes
Discussion—State of Good Repair | *All* | 10 minutes
Reports from Chairs of the TSP2 Bridge Preservation Partnerships | 40 minutes
TSP2 Update | *Ed Welch, NCPP* | 10 minutes
Update of FHWA LTBP | *Sue Lane, FHWA* | 15 minutes

WEDNESDAY, JULY 20, 2016

8:00 a.m.—10:00 a.m.

Capital

FHWA Update | *Morgan Kessler, FHWA* | 15 minutes
AASHTO SCOBS Update | *David Miller, Louisiana DOT* | 15 minutes
Proposed Transportation Asset Preservation Portal Update | *Morgan Kessler, FHWA* | 15 minutes
Michigan DOT Bridge Request For Action Process | *Steve Cook, Michigan DOT* | 15 minutes
Round Table Discussion—Unmanned Aerial Vehicles: Present Use and Future Use | *All*—
Moderator: Steven J. Cook, Michigan DOT | 60 minutes



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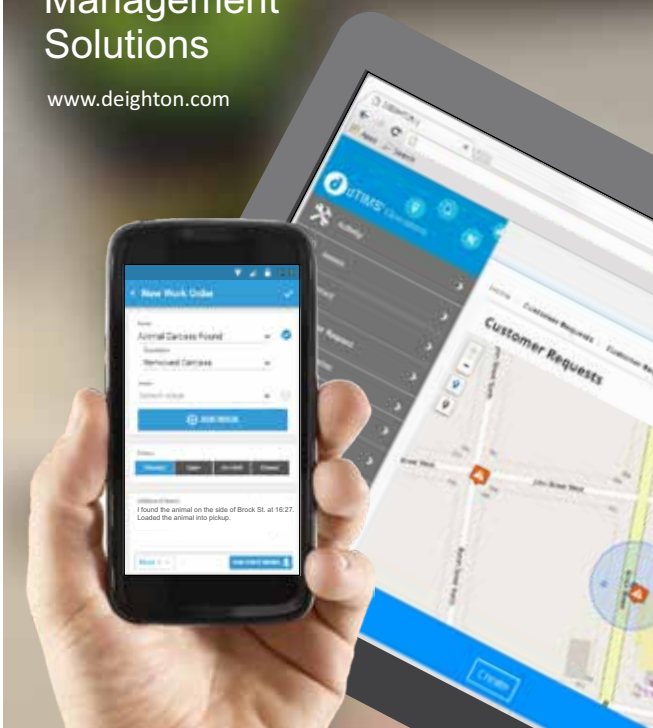
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EQUIPMENT

Chair: **Tim Cunningham, Kansas DOT**
Vice Chair: **TBA** (Environmental and Research)
Vice Chair: **TBA** (Performance Measures and Workforce Development)
FHWA Liaison: **Randy Jensen, FHWA-Colorado**

MONDAY, JULY 18, 2016

1:00 p.m.–3:00 p.m.

Copa

Welcome and Introductions | *Tim Cunningham, Kansas DOT, Moderator*

Completed Activities for the Past Year | *Tim Cunningham, Kansas DOT, Moderator*

- A. Equipment TWG: NCHRP Project Updates | *Dr. Amir Hanna, NCHRP, Presenter*
 - 1. NCHRP Project 13-04, FY2014—*Guide for Optimal Replacement Cycles of Highway Operations*
 - 2. NCHRP Project 13-05, FY2015—*Guidelines for the Development of Highway Operations Equipment Utilization Measurement and Management*
 - 3. New—Development of an Automated Tool to Assist in the Formulation and Maintenance of Long Range Equipment Replacement Plans
- B. The Equipment Management Technical Services Program (EMTSP)
 - 1. Financial Update
 - 2. EMTSP Strategic Plan
 - 3. 2015–2017 EMTSP Work Plan
- C. Overview of the 2016 National Joint AASHTO–EMTSP/TRB Fleet Management Conference and Equipment Trade Show
- D. Overview of the 95th Annual TRB Meeting in Washington, DC, January 10–14, 2016 | *Lisa Kunzman, California DOT, Presenter*

Research Updates

- A. Development of an Automated Tool to Assist in the Formulation and Maintenance of Long-Range Equipment Replacement Plans
 - Update status of SCOR vote
 - Update status of NCHRP actions
 - Update status of AASHTO–BOD decision, if necessary
- B. Develop New Research Problem Statement | *Tim Cunningham, Kansas DOT, and Bruce Erickson, Oregon DOT Presenters*
- C. Develop New NCHRP 20-7 Research Problem Statements | *Tim Cunningham, Kansas DOT, and Selected Authors, Presenters*

TUESDAY, JULY 19, 2016

10:00 a.m.–Noon

Copa

Development and Finalization of New Research Problem Statements | *Tim Cunningham, Kansas DOT, and Bruce Erickson, Oregon DOT, Presenters*

Development and Finalization of New NCHRP 20-7 Problem Statements | *Tim Cunningham, Kansas DOT, and Selected Authors, Presenters*

Update on the EMTSP/NCPP Equipment Management Training and Certification Program | *Tim Cunningham, Kansas DOT, and Neal Galehouse, NCPP*

Update on the EMTSP/NCPP Web-Based Training Course Development | Neal Galehouse, NCPP

New or Updated Activities and Publications | Dick Baron, NCPP

National Performance Measurement Working Group Updates | Michigan DOT, Presenter

- A. First web posting of performance measures, from DOTs that have them available, was completed—July 2013
- B. Last performance measure posting has been completed—January 2016 with the next report due in July 2016
- C. Program status review of state participation and data submitted
- D. The EMTSP Oversight Panel and the National Performance Measurement Working Group to develop action items going forward

Activities for the Coming Year | Tim Cunningham, Kansas DOT, Presenter

TRB AHD60—Committee on Maintenance Equipment Updates | John Hildreth, Ph.D., University of North Carolina, Charlotte

Open Discussion | Tim Cunningham, Kansas DOT, Moderator

WEDNESDAY, JULY 20, 2016

10:15 a.m.—Noon

Copa

EMTSP Oversight Panel Meeting

Review of Regional Partnership Accomplishments | Tim Cunningham, Kansas DOT, Moderator

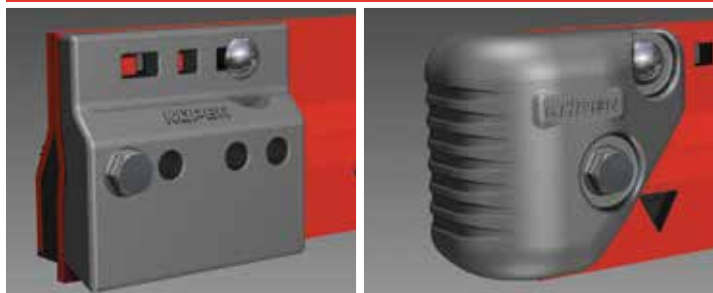
2017 Biennial Regional Partnership Conferences and Trade Shows Updates

2018 National Equipment Management Conference and Equipment Tradeshow | Tim Cunningham, Kansas DOT, Presenter

Closing Remarks

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MAINTENANCE OPERATIONS

Chair: **Brad Darr, North Dakota DOT**
Vice Chair: **Dale Doughty, Maine DOT** (Performance Measures and Environmental)
Vice Chair: **Jim Feda, South Carolina DOT** (Workforce Development and Research)
FHWA Liaison: **Paul Pisano, FHWA**

MONDAY, JULY 18, 2016

3:30 p.m.—5:00 p.m.

Rainbow

Welcome/Introductions Review Statement of Work & 2015 Work Plan Development of TWG 2016 Work Plan | *Brad Darr, Chair* | 10 min

Research Need (Statements) Status of Current Efforts and Identification and Discussions of New Needs | *Jim Feda, South Carolina DOT* | 20 min

Winter Group Report Outs

Clear Roads | *TBD* | 15 min

Aurora/TRB | *Tina Greenfield, Iowa DOT* | 15 min

Training and Certification of Highway Workers | *Katie Zimmerman, Applied Pavement Technology* | 30 min

TUESDAY, JULY 19, 2016

10:00 a.m.—Noon

Rainbow

Research Needs Follow Up | *Jim Feda, South Carolina DOT* | 15 min

2016 Winter Maintenance Peer Exchange Report Out | *Rick Nelson, SICOP* | 15 min

Maintenance Relevant STSMO Activities and Liaison Report | *Galen McGill, Oregon DOT* | 30 min

Connected Vehicle interaction with Maintenance Work Zones | *Dean Deeter, President, Athey Creek Consultants* | 30 min

SICOP | *Rick Nelson, SICOP* | 30 Min

- MDSS and the CV PFS
- PIARC

WEDNESDAY, JULY 20, 2016

8:00 a.m.—10:00 a.m.

Rainbow

FHWA Update | *Roemer Alfelor, FHWA* | 30 min

1. TIM Training Initiative
2. Road Weather—Connected Vehicle
3. Smarter Work Zones—Every Day Counts

Salt Best Management Practices (Clear Roads Contract) | *Mark Devries, APWA* | 15 min

Outcomes from the 2016 TRB Winter Maintenance Conference and SIRWEC Conference | *Rick Nelson, SICOP* | 15 Min

Alaska Dalton Highway Flood Response/Heads Up Display Update | *Mike Coffey, Arizona DOT* | 30 min

NDOT Response to MS4 Permit Requirements and Storm Water Regulations | *David Gaskin, Nevada DOT* | 30 min

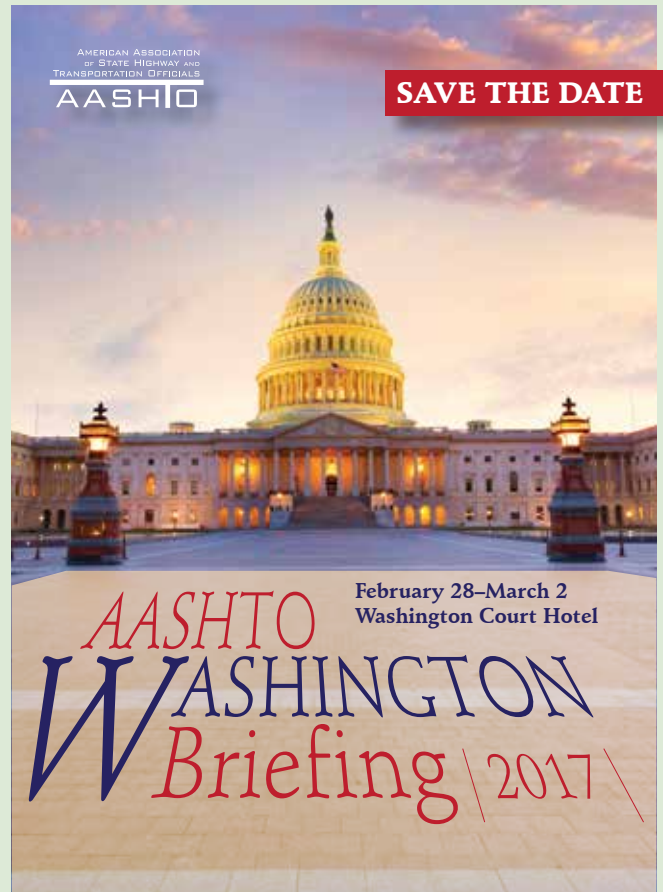
Round Robin/Results of the Week | *Brad Darr, North Dakota DOT, Chair*



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PAVEMENT

Chair: **Anita Bush, Nevada DOT**
Vice Chair: **Scott Capps, North Carolina DOT** (Safety, Environmental, Workforce Development)
Vice Chair: **Bart Sweeney, Connecticut DOT** (Asset Management, Communication, Research)
FHWA Liaison: **Marc Hoelscher, FHWA**

MONDAY, JULY 18, 2016

1:00 p.m.–3:00 p.m.

Paramount

Welcome and Opening Remarks (30 minutes)

- Overview of the PTWG
- Vision, Mission, and Strategic Goals
- Focus Areas
- 2016 Work Plan Goals and Accomplishments
- Research

PTWG Annual Business Meeting (40 minutes)

- 2017 Work Plan
- 2017 Research Problem Statements
- 2017 Resolutions

Technical Presentations

Indefinite Delivery Indefinite Quantity Contracting for Preservation Projects | 25 minutes

Jeff Lewis, Construction and Contract Administration Engineer, FHWA

Indefinite Delivery/Indefinite Quantity Contracting for Bridge and Pavement Preservation | 25 minutes

Jeremy Hunter, Bridge Design Manager, Indiana DOT

TUESDAY, JULY 19, 2016

1:00 p.m.–2:30 p.m.

Paramount

Technical Presentation

New Approaches to Utility Cut Pavement Repair: Keyhole Coring & Reinstatement; “An FHWA Best Practice” | 40 minutes

Marshall Pollock, Utilicor Technologies Inc., and Dennis Jarnecke, Gas Technology Institute

PTWG Annual Business Meeting (50 minutes)

- 2017 Work Plan
- 2017 Research Problem Statements
- 2017 Resolutions

WEDNESDAY, JULY 20, 2016

10:15 am–Noon

Paramount

Technical Presentations

Communicating Maintenance Needs Through a Transportation Asset Management Plan (TAMP) | 25 minutes

Katie Zimmerman, Applied Pavement Technology

Partial Depth Repairs | 25 minutes

Gordy Bruhn, Concrete Pavement Rehabilitation Specialist, Minnesota DOT

Impact of Joint Sealing Effectiveness on Pavement Performance | 25 minutes

Larry Scofield, International Grooving and Grinding Association

Pavement Certification Program in Nevada | 10 minutes

William Hoffman, Nevada DOT

Pavement Preservation (When, Where, and How) Via the EDC-4 Mechanisms | 15 minutes

Bryan Cawley, FHWA

Update on PPETG

Pavement Preservation Expert Task Group Update | 5 minutes

Anita Bush, Nevada DOT

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ROADWAY/ROADSIDES

Chair: **Jerry Hatcher, Tennessee DOT**
Vice Chair: **Erany Robinson-Perry, Georgia DOT** (Environmental and Research)
Vice Chair: **Thomas Lyden, Ohio DOT** (Performance Management and Workforce Development)
FHWA Liaison: **Will Beatty, FHWA**

MONDAY, JULY 18, 2016

3:30 p.m.–5:00 p.m.

Five Spot

- 3:30 p.m.–3:40 p.m. **Welcome, Introductions, Announcements**
- 3:40 p.m.–4:15 p.m. **NCHRP 20-07, Task 357 Best Practices for Collecting, Processing and Managing Roadway Asset Inventory Data**
Katie Zimmerman, Applied Pavement Technology
- 4:15 p.m.–4:55 p.m. **No Boundaries Pooled Fund**
Thomas Lyden, Ohio DOT; Steve Cook, Michigan DOT; Becky Allmeroth, Missouri DOT
- 4:55 p.m.–5:00 p.m. **Closing Remarks**

TUESDAY, JULY 19, 2016

10:00 a.m.–Noon

Five Spot

- 10:00 a.m.–10:10 a.m. **Welcome, Introductions, Announcements**
- 10:10 a.m.–10:45 a.m. **NCHRP Synthesis 470 Maintenance Quality Assurance Field Inspection Practices**
Katie Zimmerman, Applied Pavement Technology; Lonnie Watkins, North Carolina DOT
- 10:45 a.m.–11:15 a.m. **Alternative Methods of Temporary Traffic Control on Rural Highways**
Melisa Finley, Texas A&M Transportation Institute
- 11:15 a.m.–11:55 a.m. **Current Maintenance Issues/Concerns/Best Practices**
Audience Participation—Moderated by Jerry Hatcher, Tennessee DOT
- 11:55 a.m.–Noon **Closing Remarks**

WEDNESDAY, JULY 20, 2016

8:00 a.m.–10:00 a.m.

Five Spot

- 8:00 a.m.–8:10 a.m. **Welcome, Introductions, Announcements**
- 8:10 a.m.–8:45 a.m. **NCHRP Synthesis 491: Uses of Mobile Information Technology Devices in the Field for Design, Construction, and Asset Management**
Dr. Gabe Dadi and Roy Sturgill, Jr., University of Kentucky Transportation Center
- 8:45 a.m.–9:55 a.m. **Establishing and Preserving Pollinators Habitat Along Highways**
Jennifer Hopwood, Xerces, and Robbie Prezioso, Virginia DOT
- 9:55 a.m.–10:00 a.m. **Closing Remarks**

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