Subcommittee on
Maintenance
2016 Annual Meeting

Clark County, Nevada * July 17–21, 2016

AGENDA

Main Agenda 5
Bridge 13
Equipment 15
Maintenance Operations 17
Pavement 19
Roadway/Roadsides 21
DBi Services provides infrastructure maintenance, operations and management solutions worldwide for government agencies, utilities, private industries, railways, retailers and other infrastructure owners.

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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
Preserving your infrastructure network is a challenging task. Budgets are shrinking, but demand is growing. As your trusted resource, we are constantly working to find new, cost effective ways to keep you moving.
Saturday, July 16, 2016
8:00 a.m.–5:00 p.m.
Pre-Conference Meeting/AASHTO SICOP Meeting
This meeting is for winter maintenance planning technical services program members.
8:00 a.m.–Noon
Registration and Information

Sunday, July 17, 2016
6:30 a.m.–7:00 a.m. and Noon–5:00 p.m.
Registration and Information
7:00 a.m.–Noon
Nevada Technical Tour
Buses will leave the Renaissance Hotel promptly at 7:00 a.m.
1:30 p.m.–5:30 p.m.
AASHTO SCOM Leadership Meeting
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

Monday, July 18, 2016
7:00 a.m.–5:00 p.m.
Registration and Information
7:00 a.m.–9:00 a.m.
Breakfast
7:15 a.m.–8:00 a.m.
SCOM Orientation Breakfast
Russ Yurek, Maryland DOT
Steve Lund, Minnesota DOT, Presiding
• Description of SCOM and TWGs
• Introduction of TWG Chairs & Vice Chairs
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Save the Date

AASHTO 2016 ANNUAL MEETING

Sunday, November 13 through Thursday, November 17
Westin Boston Waterfront Hotel Boston, Mass.

We Hope to See You There!
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
SOM 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
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
     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 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
BETTER TOOLS. BETTER ANALYSIS. BETTER DECISIONS.

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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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Chairs: 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.

*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
   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

*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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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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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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<td><strong>MONDAY, JULY 18, 2016</strong></td>
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<tr>
<td>3:30 p.m.–3:40 p.m.</td>
<td>Welcome, Introductions, Announcements</td>
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| 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.–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&I 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.–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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