Pavement Technical Working Group
AASHTO Standing Committee on Highways, Subcommittee on Maintenance
Monday, July 23, 2018 - 3:30 pm to 5:00 pm
Charlotte, NC

Anita Bush, Nevada DOT – Chair
Scott Capps, North Carolina DOT – Vice Chair
Heath Patterson, Mississippi DOT – Vice Chair

Jason Dietz- FHWA Liaison
Welcome and Opening Remarks

Anita Bush, NDOT, PTWG Chair

Please Sign Attendance Sheet

Self-Introductions
Welcome and Opening Remarks
- Overview of the PTWG
- Vision, Mission and Strategic Goals
- Focus Areas
- 2018 Accomplishments
- Ongoing Research

PTWG Annual Business Meeting
- Completed Research – Implementation
- 2019 Work Plan
- 2019 Research Problem Statements
- 2019 Resolutions

Adjourn at 5:00 pm
Overview of Pavement TWG

Each State is allowed 3 delegates to AASHTO MaC

– One delegate per state (minimum) is recommended for PTWG membership.

Pavements account for approximately 50% of every State DOT budget.
Support members with guidance for the maintenance operations of the evolving transportation system, and addresses new challenges through leadership and innovation.
MaC Mission

Provides technical and policy guidance to members and supports the AASHTO organization in preserving and maintaining a safe and reliable highway infrastructure that meets the expectations of its customers.
MaC Goals

1. Be committed to fundamentals while embracing new technologies and processes.
   - DOTs are transitioning from a primary focus on capital programs to a primary focus on preservation and operation
   - Excellence in the fundamentals is essential: new technologies/ processes must be incorporated

2. Be recognized as an organizational leader in the maintenance committee

3. Better coordination between MaC and TSPs

4. Improve participation and attendance be MaC member agencies

5. Become more engaged with other AASHTO communities that have influence on maintenance practices and processes
Handouts

1. DRAFT Charter
2. DRAFT Strategic Direction and Organizational Structure (2018)
3. DRAFT Strategic Plan (previously adopted September 2015)
4. Research Implementation White Paper
# Focus Areas

<table>
<thead>
<tr>
<th>Technical Working Groups</th>
<th>Strategic Focus Areas*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Safety</td>
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<tr>
<td>Pavements</td>
<td></td>
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<tr>
<td>Bridges</td>
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<td>Roadway/Roadside</td>
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<td>Equipment</td>
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<td>Maintenance Operations</td>
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<tr>
<td>Workforce</td>
<td>Performance measures for maintenance including MAP21 Asset management systems Performance management System preservation Accountability and transparency</td>
</tr>
</tbody>
</table>

Primary Activities of each Technical Working Group

Writing Guidelines and Standards, Updating Manuals, Identifying and Communicating Emerging Practices, Project/Program Delivery, Website maintenance, Newsletters, Basic Governance, Technical Service Program (TSP) Coordination
2018 Work Plan Accomplishments

• AASHTO Committee on Maintenance Administrative Resolution was passed at the AASHTO Spring meet

• Title: Establish a Collaborative Review Process for Pavement Preservation Treatment Construction Guidance Specifications Pavement Preservation Surface Treatments Tech Brief Review and Comment (micro, slurry seal and chip seals).

That the AASHTO Highways Committee on Maintenance recommends to the Highways and Streets Council of the AASHTO Transportation Policy Forum to assign to the Committee on Materials and Pavements, Technical Subcommittee 5b, for a five year period, the responsibility for reviewing, maintaining, and publishing pavement preservation materials standards and pavement preservation treatment construction guidance specifications to the corresponding publications (e.g. AASHTO Materials Book or AASHTO Construction Guide); and that the COMP Technical Subcommittee 5b add 3 to 5 voting representatives from each of the Committees on Maintenance and Construction for the development and review of preservation construction guidance specifications.
COMP Technical Subcommittee 5b
voting representatives

• Mark E. Woods - TN
• Tracy Nowaczyk - KY
• James Stevenson – TX
• Anita Bush - NV
2018 Work Plan Accomplishments

SAFETY

• In cooperation with Maintenance Operations TWG – Panel members: NCHRP Synthesis 49-04 VERY SHORT DURATION WORK ZONES FOR MAINTENANCE AND OTHER ACTIVITIES
  – Please respond to survey (telephone interview) request from ‘LuAnn Theiss' <l-theiss@tamu.edu> - TTI

COMMUNICATION

• Updated Pavement TWG contact list

ASSET MANAGEMENT/ WORKFORCE DEVELOPMENT

• 2018 National Conference on Transportation Asset Management Conference Organization/ Workforce Track development
# 2018 Work Plan Accomplishments

**RESEARCH**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Potential Problem Statement</th>
<th>Working Group</th>
<th>Average Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Synthesis on DOTs performing conducting safety hardware in-service performance evaluations</td>
<td>Roadway/Roadside</td>
<td>4.41</td>
</tr>
<tr>
<td>2</td>
<td>Guidelines for Decision Making for Repair vs. Replacement of Highway Maintenance Equipment</td>
<td>Equipment</td>
<td>4.07</td>
</tr>
<tr>
<td>3</td>
<td>Determining Maintenance Implications of Autonomous Vehicles</td>
<td>Roadway/Roadside</td>
<td>3.83</td>
</tr>
<tr>
<td>4</td>
<td>Update the AASHTO Guide for Snow and Ice Control</td>
<td>Maintenance Operations</td>
<td>3.75</td>
</tr>
<tr>
<td>5</td>
<td><strong>Determining Pavement Preservation Treatment Lives and Related Pavement Life Extension (NOT SELECTED)</strong></td>
<td>Pavement</td>
<td>3.64</td>
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<tr>
<td>6</td>
<td>Protecting Bridge Approaches During Flooding Events</td>
<td>Bridges</td>
<td>3.57</td>
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<tr>
<td>8</td>
<td>20-07 on Winter Adaptive Routing</td>
<td>Maintenance Operations</td>
<td>3.28</td>
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<tr>
<td>9</td>
<td>Guide Construction Specifications for Cold In-Place Recycling (CIR) and Cold Central Plant Recycling (CCPR)</td>
<td>Pavement</td>
<td>2.86</td>
</tr>
<tr>
<td>10</td>
<td>Test Protocols for Small Movement Bridge Joints</td>
<td>Bridges</td>
<td>2.85</td>
</tr>
</tbody>
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Ongoing Research

- **NCHRP 14-37**: Guide Specifications for the Construction of Chip Seals, Microsurfacing and Fog Seals
  

- **NCHRP 14-38**: Guide for Timing of Asphalt-Surfaced Pavement Preservation
  
# 2019 Research Problem Statements

## TOP 5

<table>
<thead>
<tr>
<th>RESEARCH TOPICS</th>
<th>RANK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway Network Alternatives to Determining High Stress Pavement Safety Hotspots</td>
<td>26</td>
</tr>
<tr>
<td>PCCP Joint Sealing Practices &amp; Performance</td>
<td>25</td>
</tr>
<tr>
<td>Guide Construction Specifications for Cold In-Place Recycling (CIR) and Cold Central Plant Recycling</td>
<td>21</td>
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<tr>
<td>Guidelines for Incorporating Maintenance Costs into a TAMP</td>
<td>21</td>
</tr>
<tr>
<td>Benefit Cost Analysis of Chip Seal Binder Alternatives</td>
<td>16</td>
</tr>
</tbody>
</table>

Due dates for NCHRP – Two weeks earlier or more to Jon Wilcoxson

- **NCHRP Regular Projects** – Mid-October – **October 1st to Jon**
- **Domestic Scans** – September 29 – **September 15th to Jon**
- **Synthesis Topics** – February 16, 2018 – **February 1st to Jon**
## Recommendations

<table>
<thead>
<tr>
<th>RESEARCH TOPICS</th>
<th>Link to publication Click on “View this PDF” and download it as a guest by entering your e-mail address</th>
<th>Recommendation for AASHTO Publication (Yes or No)</th>
</tr>
</thead>
</table>
2019 Work Plan – Top 5

• Support efforts to quantify the contributions of pavement preservation to safety programs.
• Support efforts to quantify the contributions of pavement preservation/maintenance to risk-based asset management programs.
• Support the development of Contractor and Agency Pavement Preservation Treatments Certificate Programs.
• Support TC3 and other groups in the development of various training and certification programs.
• Pavement Preservation Book Club
2018 Resolutions

• Proposed Topics from PTWG Membership
Pavement Technical Working Group

NEXT MEETINGS

Tuesday - 10:00 am to 12:00 pm
Wednesday - 10:30 am to 12:00 pm

Symphony III