

**AASHTO COMMITTEE ON MAINTENANCE
ACCOMPLISHMENT REPORT
AUGUST 2019**

OFFICERS

Chair: George H. Conner, ALDOT
Vice Chair: Steve Lund, MNDOT
Vice Chair: Jerry Hatcher, TNDOT
Research Coordinator: Jon Wilcoxson, KYTC
FHWA Liaison: Connie Yew, FHWA
AASHTO Liaison: Jameelah Hayes, AASHTO

SUBCOMMITTEE ORGANIZATION

The Committee on Maintenance (COM) is organized into five Technical Work Groups (TWGs). The five TWGs are as follows: Bridge, Pavement, Equipment, Roadway/Roadside, and Maintenance Operations. There are also three Technical Service Programs that are overseen by COM: Transportation Systems Preservation (TPS2), Equipment Maintenance (EMTSP), and Snow & Ice (SICOP).

KEY STRATEGIC FOCUS AREA WORK PLAN ACCOMPLISHMENT UPDATES

SAFETY (Goal: A safe, reliable highway system in a state of good repair.)

- In cooperation with Maintenance Operations TWG – Panel members: NCHRP Synthesis 49-04 VERY SHORT DURATION WORK ZONES FOR MAINTENANCE AND OTHER ACTIVITIES
- Continued supporting autonomous attenuator implementation
- Continued support for FHWA EDC 4 and 5 weather savvy roads and weather responsive traffic management strategies
- Support planning effort for FHWA drone peer exchange
- Sharing information between states.
 - Recalls
 - Incidents (i.e. fires, accidents, etc.)
 - Issues and solutions
- Continued to work through the Bridge TWG representative on the Fall Protection Resolution
 - This effort has reached a dead end and the Bridge TWG is looking for a new path forward
- Promoted safety and reliability of bridge preservation practices

ASSET MANAGEMENT (Goal: Accountability and transparency through performance management.)

- Participated in Asset Management Peer Exchange
- Conducted a podcast on performance metrics for winter maintenance operations
- Ongoing efforts to support the posting of National Performance Measures on the EMTSP website
- Adoption of NCHRP 13-04 (optimal life cycle) as an AASHTO publication
- Supported member agencies in the implementation of the FHWA Rules for bridge and pavement condition and for asset management systems
- Participated in the TSP2 National Bridge Management System working group

ENVIRONMENTAL (Goal: Environmental stewardship and ensure compliance.)

- Support SICOP including a 3 year strategic plan
- Exchanging of equipment information between states related to:
 - Air quality
 - Alternative fuel
 - Recycling water technologies on equipment
- Promoted sustainability while performing bridge maintenance and preservation activities
- Supported national efforts that preserve and enhance pollinator habitat

WORKFORCE DEVELOPMENT (Goal: A well-qualified and competent workforce.)

- Supported pavement preservation certification programs
- Hosted a Maintenance Leadership Academy
- Supported CDOT development of AS in Highway Maintenance Management
- Supported TC3 training programs
- Fleet web based training (modules)
 - 3rd module posted (Fleet Sizing)
 - 4th under development (Fleet Utilization)
 - 5th and 6th approved and funded (specifications, asset disposal)
- Promoted bridge maintenance participation and training for local agencies (National Working Group)
- Supported the AASHTO TC3 program
- Provided leadership to the TSP2 regional bridge preservation partnerships

- Supported FHWA Bridge Preservation Expert Task Group efforts
- Support of the NHI Maintenance Leadership Academy

COMMUNICATION (Goal: The communication of the value and role of maintenance.)

- Updated Pavement TWG contact list
- PPETG quarterly communications, paper reviews and participate in meetings
- Participated in Peer exchanges with CTSO committee on Maintenance Operations and WRTM
- Participated in FHWA workshop of automated vehicles on Highway infrastructure
- Co-sponsored two webinars with SICOP showcasing the use of technology in achieving the maintenance mission
- Hosted Regional Conferences
- Maintained EMTSP website
- Promoted communications concerning bridge maintenance and preservation with local agencies
- Participated in the national working group for Social Media
- Developed a strategy to better communicate bridge condition information to the media (ENR, Roads and Bridges, ARTBA, etc.)

RESEARCH (Goal: Research, innovation and technology.)

- 2 RNSs submitted by Pavement TWG were selected
- Supported resubmittal of Domestic Scan for NCHRP Research implementation opportunity for National/Regional Snow and Ice Performance Measure
- Supported research on AASHTO Guide for Snow and Ice Control
- Promoted potential research on mechanical icebreakers
- Supporting six ongoing Equipment research projects
 - NCHRP 20-7/Task 426, - *Update to NCHRP 20-7/Task 309, Challenges and Opportunities: A Strategic Plan for Equipment Management Research Challenges and Opportunities.*
 - NCHRP Project 13-05 – *Guidelines for the Development of Highway Operations Equipment Utilization Measurement and Management* is ongoing.
 - NCHRP Project 13-06, FY 2017 – *Development of an Automated Tool to Assist in the Formulation and Maintenance of Long- Range Equipment Replacement Plans.*
 - NCHRP Project 13-07, FY 2018 – *Guidelines to Calculate Total Cost of Ownership for Fleet Operations.*
 - NCHRP Project 05-24, FY 2018 – *Guidelines for the Selection and Application of Vehicle and Equipment Warning Light Configurations, Color, and Markings.*
 - NCHRP Project 13-08 - *Guideline for Decision Making for Repair vs. Replacement of Highway Maintenance Equipment.*
- Adoption of 13-04 (life cycle) as an AASHTO publication
- Supporting the AASHTO publishing of completed research projects:
 - Small Movement Expansion Joints - NCHRP Project 12-100
 - Marking Bridges in Emergency Situations NCHRP Project 14-29
- Proposed “Establishing a Procurement Guide for NDT Evaluation and Structure Health Monitoring based on Best Practices and Vendor Qualifications” – Not Selected for funding
- Proposed “Protecting bridge approaches during flooding events” – Not selected for funding

ANNUAL MEETING REPORT

The 2019 Committee on Maintenance meeting was held in Grand Rapids, MI, on July 15 – July 18. Forty (40) states were represented during the closing business session. Seven new proposed research problem statements were submitted. There were three resolutions discussed during the business meeting.

The next annual Committee on Maintenance meeting will be held in Boulder, CO in July 2020.