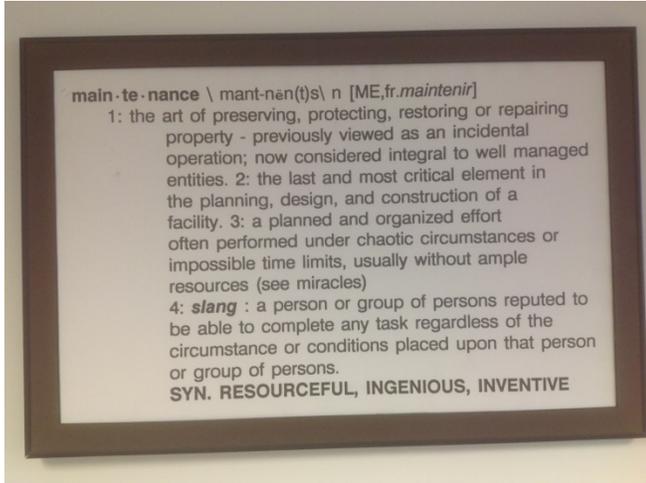


Message from the Vice Chairs

Colleagues,

As I was heading to get a refill on my cup of coffee the other day, I took notice of a sign that was hung in just many years ago by one our staffers within the maintenance community.



As we turn the page from one season to another, I would like to take a moment and reflect on some of the extraordinary circumstances and work we find ourselves involved within. It seems the trend over the past few years have been oriented towards more extreme weather events, causing more widespread impacts, and placing more strain on limited resources.

We have recently seen presentations from multiple states on massive flooding, rock slides, snowstorms, wildfires, etc., and each event seems to top the previous event. More

importantly, during and after each event, our DOT maintenance community finds a way to stay the course, and overcome the odds stacked against us. Many times, maintenance is solely responsible for cleaning up, and we get assistance from the capital program for major repairs. However, Maintenance is always the front line of defense to provide a safe and mobile highway network.

Customer expectations continue to spiral upwards, at times reaching a sense of entitlement to travel anywhere, at any time, regardless of conditions. And yes we reach deep down within our resources to try and provide those lofty expectations without crossing the line of common sense. Our folks will always strive to provide mobility for law enforcement, EMS, firemen, and utility response under the most extreme conditions.

Too often, those Herculean efforts get quickly forgotten as we roll into our regular full time jobs of ditching, patching, sign work, etc. As leaders, we need to make sure that we take every opportunity to thank the front line troops, and I am sure we all try to do this on a regular basis. I just wanted to take a moment and say thanks to all the managers in Maintenance that all too often reluctantly leave their families and lead the charge into battle as civil servants, and provide an extraordinary level of service to keep our customers happy, and to keep the economy moving.

Thanks for a job well done!

Russ Yurek & Steve Lund
ryurek@sha.state.md.us, 410-582-5505
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Equipment Technical Working Group / EMTSP

Equipment Management Technical Services Program (EMTSP)



The EMTSP Oversight Panel continues their management of the program. Recent accomplishments include the following:

- Year-to-date FY 2017 State DOT annual contributions to EMTSP are aligned with contributions for this time of year with that of previous fiscal years
- Action items in the EMTSP Strategic Plan have been updated and completed
- 2017-2019 EMTSP Work Plan is being developed with action items assigned, work advances steadily with this document renewal
- Improved and revised the EMTSP website to provide similar information as the former AASHTO Equipment Reference Book to eliminate the need for continuing that publication.

Additional enhancements include:

- Video recording and posting of all National AASHTO-EMTSP and bi-annual EMTSP Regional Partnership Meeting presentations
- Video recording and posting of the Annual TRB AHD60 Meeting presentations sponsored by the cooperative TRB Committee on Maintenance Equipment
- Promotion and instruction encouraging the EMTSP community to utilize the Survey Monkey® tools found on the website
- Web-site posting of completed fleet management survey results
- Website posting of technical equipment specifications and related contractual language and tools
- Development of Regional Partnership and global email contact distribution lists
- 2017 EMTSP Regional Partnership Meeting Calendar – the coordination, planning and execution of the scheduled regional partnership meetings, which occur on odd numbered calendar years, continues forward. The host states for the 2017 EMTSP Regional Partnerships Conferences have been selected; corresponding city locations and dates have been established by each regional partnership. The 2017 EMTSP Regional Partnership Meeting and Equipment Trade Shows are as follows:
 - 2017 Northeast /Midwest Joint Equipment Management Partnership Meeting and Equipment Trade Show (NEMP) - Portland, Maine, Dates - June 26-29, 2017, Conference Hotel – Holiday Inn by the Bay
 - 2017 Southeastern States Equipment Managers Conference and Equipment Trade Show (SSEMC) - Jekyll Island, Georgia, Dates – July 24-27, 2017, Conference Location - Jekyll Island Conference Center, Conference Hotel – Hampton Inn and Suites

- 2017 Western States Highway Equipment Mangers Association Meeting and Equipment Trade Show (WSHEMA) - San Diego, California, Dates October 2 – 5, 2017, Conference Hotel – San Diego Marriot Mission Valley
- Additional information about these regional conference meetings and trade shows can be found at www.emtsp.org
- The 2017 Western States Highway Equipment Managers Association’s (WSHEMA) Winter Maintenance Equipment Domestic Scan Tour is scheduled for June 11-16, 2017. WSHEMA members will be visiting the DOT equipment fleet operations of Minnesota, Michigan, Ohio and Pennsylvania. The focus of the scan will include the review of all winter maintenance equipment, including snow blowers and tow plows, fleet equipment management techniques, including equipment replacement cycles, AVL/GPS applications, corrosion control and management best practices, winter maintenance equipment visibility, lighting and traffic control/awareness will also be studied. At the conclusion of the Scan Tour, a summary report will be written and published. The report will include details of the topics discussed, technical photos, and a conclusion with pertinent take-a-ways and important lessons learned
- The 2018 National Equipment Management Conference and Equipment Tradeshow will be hosted by the State of Connecticut. Location is Hartford, Dates will be July 30-August 3, 2018
- Continued work implementing the findings from the final report of Research Project 20-07/Task 309, Challenges and Opportunities: A Strategic Plan for Equipment Management Research to identify and prioritize additional research projects. New priorities were identified and voted at the 2016 National AASHTO-EMTSP Meeting in Columbus, Ohio on June 27, 2016.
- Continued working with the EMTSP National Performance Measurement Working Group and Michigan DOT to develop and post each state’s available performance measures on the EMTSP website. Four (4) common state DOT fleet performance measures (Utilization, Preventative Maintenance, Retention, and Availability) are now being reported and may be reviewed at www.emtsp.org
- Workforce Development - Promote and support professional development opportunities for equipment managers by cultivating training opportunities and certifications appropriate for state equipment managers. Utilize existing fleet management and academic organizations to provide training.
 - Two training modules selected by the EMTSP Oversight Panel and submitted to

TC3 for web-based training (WBT) development were considered and accepted for development in 2015. The EMTSP Education Subcommittee, made up by EMTSP member state volunteers, has finalized the WBT educational requirements and outcomes for National Center for Pavement Preservation (NCPP) course development and later AASHTO TC3 contractor production design work. The EMTSP Oversight Panel will oversee this production process. The selected web-based topics were deemed suitable by the panel for their overall application to all levels of DOT fleet management are listed below:

- Preventative Maintenance Concepts for State Equipment Fleet Management Operations – Status: the course is complete and in final coordination with TC3
 - Bench Marking and Best Practices for State Equipment Fleet Management – Status: the course is now in development by NCPP
 - On-going development of a model training and certification curriculum appropriate for state equipment managers by revising the skills matrix developed by the TC3
 - Continued exploration of opportunities to develop a model AASHTO-EMTSP Certification Program or Certificate program appropriate for State DOT Fleet Managers; determine how this program can be implemented as an AASHTO Equipment Management Certification program
 - Promote the use of the EMTSP website as a clearing house of information for professional development self-study on subject related fleet management topics including, but not limited to:
 - Equipment industry communications and updates
 - State and Federal regulatory communications
 - Technical equipment specifications and studies
 - Industry and government white papers
 - Videos and documents
 - Academic Presentations and Webinars
 - Libraries of industry, government and academic research papers and presentations

If your state has not yet remitted the voluntary contribution for EMTSP, you are encouraged you to do so in order for

this valuable program to continue and expand its accomplishments, which serve the needs of highway agency equipment fleet professionals.

All state DOT equipment managers (and others interested in receiving periodic e-mail related to the EMTSP) are encouraged to subscribe to the EMTSP listserv by clicking on this link: EMTSP General Listserv
<http://mailman.egr.msu.edu/mailman/listinfo/emtsp>.

Equipment Technical Working Group (TWG)

Current Research Projects

- NCHRP Project 13-04 – *Guide for the Development of Highway Operations Equipment Replacement Lifecycle Criteria* is on-going. The project panel has been staffed; RFP has been written, solicited and awarded to Dye Management Group. Project start date was May 01, 2015. Project completion date is April 30, 2017
- NCHRP Project 13-05 – *Guidelines for the Development of Highway Operations Equipment Utilization Measurement and Management* is ongoing. The project panel has been staffed; RFP has been written, solicited and awarded to Washington State University. Project start date was June 01, 2015. Project completion date is May 31, 2017
- NCHRP Project 13-06, FY2017 - *Development of an Automated Tool to Assist in the Formulation and Maintenance of Long Range Equipment Replacement Plans* was submitted to SCOM on August 13, 2015. In March 2016, SCOR approved the project and was later approved for funding by the AASHTO Board of Directors. NCHRP will be assembling the project panel to develop RFP scope-of-work in 2017
- NCHRP Synthesis 452, *State Department of Transportation Fleet Replacement Management Practices*, has been completed and published in March 2014. The complete report can be found on the “About EMTSP” page of the EMTSP website at the following link: <http://www.emtsp.org/about-emtsp>

Proposed Research Projects

- During the 2016 AASHTO SCOM the Equipment Technical Working Group (TWG) developed and submitted two (2) research project statements and an application for a proposed scan tour. The research project statements and scan tour proposal were given initial SCOM endorsement and are currently submitted for further review and vetting for funding. Unfortunately, due to an administrative oversight, the scan tour proposal will have to be resubmitted for 2018. The proposed research project statements and scan tour proposal are listed below:
 - *Guidelines for the Selection and Application of Vehicle and Equipment*

Warning Light Configurations, Colors, and Markings – the objective of the research is to update and enhance previous guidelines addressed in NCHRP Project 13-02, Report 624. This research project will include on-road vehicle and off-road equipment configurations. Research will identify configurations and provide a tool that describes the interrelated effects of vehicle color, light color, combination of lighting systems, flash rate, and markings, with maximum and minimum limits, to make highway vehicles and equipment quickly and easily recognizable.

- *Guidelines to Calculate Total Cost of Ownership for Fleet Operations* - The objective of the research is to develop a methodology and provide guidance leading to a full and accurate understanding of Total Cost of Ownership to inform fleet customers (both internal and external), fleet services providers, and senior decision makers and to assist in identifying opportunities to optimize these costs.
- Proposal for Scan Tour – *Equipment Asset Preservation and Protection Techniques* – The purpose of the scan is to assist and educate State DOT equipment managers,

who are tasked with identifying preventative maintenance practices to prevent premature deterioration. Fleet Managers are being asked questions like, what are the best protectant coatings, how do different methods of storing equipment affect fleet longevity, and do certain preventative maintenances programs or processes work better than another? Which fleets have implemented successful washing programs and how? What are the best practices for preparing fleet equipment for off season storage? There are many different methods that have been developed over the years to address each of these questions. There would be significant value to State DOT's to identify which methods have been the most successful.

Collaboration with TRB

Various members of the Equipment TWG have been involved with preparing, reviewing and arranging for papers on relevant equipment management topics to be presented at the Annual 97th TRB Meeting to be held in Washington, D.C. in January 7 – 11, 2018.

Tim Cunningham – Chair
Equipment Technical Working Group – AASHTO SCOM
TimC@ksdot.org, 785-296-3853

Maintenance Operation Technical Working Group / SICOP

SCOM/Maintenance Operation (MO) Technical Working Group (TWG)

July 2017 SCOM MO TWG Planning:

The planning for the July 2017 SCOM meeting including the Maintenance Operations TWG sessions are in full swing. We continue to solicit any topics of interest to the SCOM. The committee strives for a mixture of snow and ice, safety and operational issues.

As usual, we will have a few presentations of interest, updates from our related pooled funds, SICOP, FHWA and more! We will have some research opportunities as well.

Critical to that success is that the research needs are well vetted. With the limited time that the SCOM conference provides, it can be somewhat difficult to fully develop research needs statements. So please, if you have a suggested research need not identified by the peer exchange or any other ideas or suggestions, please share them early by contacting Brad Darr at 701-328-4443 or bdarr@nd.gov.

The SCOM MO TWG continues to collaborate with related pooled funds, SICOP, TRB and our FHWA partners on research, conferences and other items of interest.

Brad Darr – Chair
Maintenance Operation TWG – AASHTO SCOM
bdarr@nd.gov, 701-328-4443

Winter Maintenance Technical Services Program - SICOP Update

The AASHTO-Winter Maintenance Technical Service Program – SICOP represents the interests of states who have made the voluntary contribution to the program. If you're not sure if your state participates in SICOP, the current listing of contributions can be found on the SICOP website. If your state hasn't made the voluntary contribution of \$4,000 for SICOP, you are encouraged to do so in order for this valuable program to continue and expand its accomplishments, which serves the needs of the highway agency winter maintenance community.

Oversight of SICOP is provided by a representative steering committee with members from each AASHTO region, APWA, NACE, TRB winter maintenance related committee chairs, and liaisons with the AASHTO Subcommittee on Transportation System Management & Operations (STSMO) and FHWA.

Program Information

SICOP and the Winter Maintenance Policy Coordinating Committee – SICOP’s steering committee wants to recognize Mike Lashmet, New York State DOT, as he rotates off the SICOP steering committee for his many years representing AASHTO Region 1. Representing Region 1 for the next 3 years is Caleb Dobbins, New Hampshire DOT.

Development of the next 3-Year National Winter Maintenance Strategic Plan

Beginning at the 2016 Subcommittee on Maintenance meeting, SICOP began the process of collecting and ranking critical issues facing the winter maintenance community to form the foundation of the 3-Year National Winter Maintenance Strategic Plan. The critical issues have been balloted by SICOP member states and the SICOP steering committee will be evaluating the result of the balloting to complete the development of the next plan. The final draft will be discussed during the SICOP annual meeting.

2017 FHWA Road Weather Management Stakeholder Meeting

FHWA is hosting a Road Weather Management Stakeholder meeting in Minneapolis, MN June 20-22, 2017. The theme for this year’s meeting is “Sharing Road Weather Management Solutions to Accelerate Deployment” building on the extensive Knowledge and Technology Transfer efforts we are conducting under the Every Day Counts / Weather-Savvy Roads initiative

(<https://www.fhwa.dot.gov/innovation/everydaycounts/edc4/roadweather.cfm>).

For more information about the Stakeholder Meeting contact Paul Pisano Paul.Pisano@dot.gov, 202-366-1301.

SICOP Annual Meeting

The SICOP steering committee will be meeting the Saturday before the July-August 2017 Subcommittee on Maintenance meeting in Providence, RI. Meeting materials and the outcomes of the meeting will be available on the SICOP website after the meeting.

2017 National Winter Maintenance Peer Exchange

The 2017 National Winter Maintenance Peer Exchange is planned for September 12-13, 2017 in Pittsburgh, PA. SICOP, Aurora, and Clear Roads co-sponsor this every other year event. The theme for the 2017 Peer Exchange will focus on moving Research into Operations. The National Winter maintenance Peer Exchange provides opportunities for attendees to share and hear the latest in state of the practice through state best practice reports and provide input through breakout sessions on the gaps they face in implementing their winter maintenance programs. This input is valuable to the so-sponsors and others as they set their future research agendas.

For more information

More information about the SICOP program and to obtain other information or support, contact the SICOP Coordinator, Rick Nelson at RNelson@aaashto.org or <http://sicop.transportation.org> for the latest winter maintenance events.

Bridge Technical Working Group

The Bridge Technical Working Group (BTWG) is planning for the break-out sessions at the 2017 SCOM meeting in Rhode Island.

The BTWG serves as the liaison and facilitator between the TSP.2 regional bridge preservation partnerships and AASHTO SCOM Leadership.

The schedule for the 2017 regional bridge preservation partnership meetings is as follows:

- Southeast Bridge Preservation Partnership; Charleston, West Virginia, April 10 – 12
- Western Bridge Preservation Partnership; Denver, Colorado, May 22 – 24
- Northeast Bridge Preservation Partnership; New Brunswick, New Jersey, September 11 – 13
- Midwest Bridge Preservation Partnership; Minneapolis, Minnesota, November 6 – 8

A national bridge preservation conference is being planned for 2018.

The BTWG supported NCHRP bridge related research projects, and members of the group attended the 2017 TRB meeting in Washington, D.C. Members of the group are also involved in the activities of the following TRB Committee’s:

- Bridge Preservation Committee (AHD37)
- Structures Maintenance Committee (AHD30)
- Bridge Management Committee (AHD35)

The BTWG is supporting the efforts of the SCOM leadership to update the AASHTO Maintenance Manual for Roadways and Bridges (NCHRP Project 20-07/Task 380).

Members of the BTWG have provided support to FHWA’s Long Term Bridge Performance Program and the FHWA Bridge Preservation Expert Task Group.

FHWA has the following training courses available:

- NHI 134062 Bridge Evaluation for Rehabilitation Design Considerations - instructor led course
- NHI 130106A Bridge Preservation Fundamentals - web based course

- NHI 130106B Establishing a Bridge Preservation Program - web based course
- NHI 130106C Communication Strategies for Bridge Preservation - web based course
- NHI 130107A Fundamentals of Bridge Maintenance -web based course - this is a prerequisite for NHI 130108 Bridge Maintenance
- NHI 130108 Bridge Maintenance - instructor led course

The following working groups have been established:

- National Bridge Preservation Partnership (NBPP) Coatings Working Group. Jeff Pouliotte from Florida is the Chair.
- National Bridge Deck Preservation Working Group. Mike Johnson from California is the Chair.
- National Bridge Preservation Social Media Working Group. Lorella Angelini, with Angelini Consulting Services, LLC is the Chair.

The development of a Transportation Asset Preservation Portal (TAPP) has been proposed by FHWA. This work is proposed to be accomplished under a pooled fund project and a Technical Advisory Committee is being established. The TAPP could be based on Defect, Cause, Action, and Cost models for preserving transportation system assets.

A summary of NCHRP Research concerning Bridge Preservation and Maintenance follows:

Complete NCHRP Projects

- NCHRP 14-24 – “Guidance for Communicating the Value of Highway System Maintenance and Preservation” - NCHRP Report 742 issued
- NCHRP 14-27 – “A Guide for the Preservation of Highway Tunnel Systems ” - NCHRP Report 816 issued
- NCHRP 14-29 – “Assessing, Coding, and Marking of Highway Structures in Emergency Situations” - NCHRP Report 233 issued
- NCHRP 14-32 – “Proposed Revisions to the AASHTO Movable Bridge Inspection, Evaluation, and Maintenance Manual” - the Movable Bridge Inspection, Evaluation, and Maintenance Manual, 2nd Edition has been published by AASHTO
- NCHRP 12-100 – “Guidelines for Maintaining Small Movement Bridge Expansion Joints - Guidelines under review for possible publication as AASHTO document
- NCHRP 14-28 – “Condition assessment of bridge post tensioning and stayed cable systems using NDE Methods” - Report, Appendices, and Inspection Guidelines will be posted on the TRB website and the Inspection Guidelines will be published and printed copies will be available
- NCHRP Project 20-07/Task 378 – “Assessing Risk for Bridge Management” - Agency's final report submitted to AASHTO SCOBs

- NCHRP Project 20-07/Task 379 – “Update the SCOM Strategic Plan” - Updated plan published on SCOM website

Active NCHRP Projects

- NCHRP 14-30 – “Spot Painting to Extend Highway Bridge Coating Life”
- NCHRP Project 10-97 – “Detection and Remediation of Soluble Salt Contamination Prior to Coating Steel Highway Structures”
- NCHRP Project 14-36 – “Proposed AASHTO Guide for Bridge Preservation Actions”.
- NCHRP 12-104 – “Guidelines to Improve the Quality of Element-Level Bridge Inspection Data ”
- NCHRP 12-108 – “Guide Specification for Service Life Design of Highway Bridges”

Active NCHRP 20-07 Projects

- NCHRP Project 20-07/Task 380 – “Update the AASHTO Maintenance Manual for Roadways and Bridges”
- NCHRP Project 20-07/Task 387 – “Maintenance Actions for Fatigue Cracking in Steel Bridge Structures”

Active NCHRP Domestic Scan

- NCHRP Domestic Scan 15-03 – “Successful Preservation Practices for Steel Bridge Coatings” - Information documented by the scan team will provide effective strategies and other specific information for use by bridge owners in their preservation of coating systems for steel structures that will result in substantial cost savings and significant extension of service life – A peer exchange workshop was conducted from May 23 – 26, 2016 in Orlando, Florida – The final scan report is under development.

NCHRP 20-07 Projects in Contracting Phase

- NCHRP Project 20-07/Task 396 – “Updating the AASHTO Seismic Hazard Maps and Site Coefficients”
- NCHRP Project 20-07/Task 397 – “Characteristics of Decommissioned Bridges”
- NCHRP Project 20-07/Task 399 – “Identifying Bridge Maintenance and Preservation Activities which Minimize Environmental Impact”

Domestic Scan 17-01 - Successful Approaches for the Use of Unmanned Aerial Systems by Surface Transportation Agencies has been selected.

The leadership team of the BTWG also conducted email exchanges with the group members.

Jeff L. Milton – Chair
 Bridge Technical Working Group – AASHTO SCOM
Jeffrey.Milton@vdot.virginia.gov, 434-856-8278

Pavements Technical Working Group

First of all, I would like to thank all of you who contribute and participate in our activities. The Pavement TWG has been diligently working to accomplish our priorities for this year and preparing for this year's meeting by holding monthly conference calls. The highest priorities of our working group are listed below:

- Support efforts to quantify the contributions of pavement preservation to safety programs
- Support efforts to quantify the contributions of pavement preservation 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
- Review and Provide Recommendations for NCHRP 14-31 Framework for Pavement Maintenance Database Systems for possible AASHTO publication and assist with implementation

Our next call is scheduled for April 18th and we would love your participation. If you don't have the invitation for this meeting, please contact me at abush@dot.nv.gov and I would be happy to forward it to you.

We have distributed a spreadsheet listing topics of interests for the Pavement TWG and we are waiting to hear back from you to rate them and find them the proper forum to be discussed. Unfortunately our research need statement, titled "Developing a Procedure for Cost-Effectiveness Measures for Pavement Preservation" was not selected by SCOR to be funded by NCHRP. We are always interested in your research needs so if you have a topic in mind and would like to vet it through the Pavement TWG, please let me know.

We look forward to working with you throughout the year!

Anita Bush – Chair
Pavements Technical Working Group – AASHTO SCOM
abush@dot.nv.gov, 775-888-7856

Roadway/Roadsides Technical Working Group

SCOM Meeting Planning

The Roadway/Roadsides TWG leadership is currently finalizing plans for our break-out sessions at the 2017 SCOM meeting. As we did last year, we are expecting to have one session dedicated to an open interactive discussion with the audience on current roadway/roadsides related issues or concerns. This session was well received last year and resulted in very productive discussion. We will be requesting feedback from attendees on possible solutions or current practices that are being used to address these issues.

NOTE: If you have an issue or a best practice that you would like to be discussed during this session, please contact R/R TWG leadership.

For those that typically attend our TWG sessions, we are very interested in hearing from you **BEFORE** the SCOM meeting if you have research problem statement and resolution suggestions. Please submit any ideas or needs you have to R/R TWG leadership.

No Boundaries Pooled Fund Update

The Roadway/Roadside TWG continues to support the No Boundaries Roadway Maintenance Practices Pooled Fund Study. No Boundaries facilitates the implementation of proven, ready-to-deploy, non-winter maintenance innovations. Membership has now grown to fifteen states.

More than 30 No Boundaries members and invited guests convened in Ann Arbor, Michigan from October 25 to 27, 2016 to take part in demonstrations, presentations, and

questions/answers opportunities. Meeting highlights included live demonstrations of unmanned aerial systems and automatic vehicle locator systems, as well as a tour of the Mcity automated and connected vehicle testing facility at the University of Michigan.

This spring, the program began developing a webinar series for 2017, and No Boundaries is now seeking SCOM member input about innovative State DOT maintenance practices. In particular, we are interested in innovations associated with maintenance training, contracting and technology. You are encouraged (and thanked in advance) to take a few moments to complete the survey at the following website: <https://www.surveymonkey.com/r/nb-innovations-mar-17>.



Demonstration of a UAV by Michigan DOT and Michigan Tech Research Institute

For additional information on past meetings or to join this Pooled Fund, please visit the following website:
<http://noboundaries-roadmaintenance.org/>

2017 Highest Priority Work Plan Activities

- Organize and moderate webinars with a focus on presentations of recently completed research
- Support the No Boundaries pooled fund – Implementing Maintenance Innovations from State to State
- Review roadway/roadsides related TRB/NCHRP completed research projects and seek ways to create awareness and support implementation of best practices
- Support of the NHI Maintenance Leadership Academy
- Support national efforts that preserve and enhance pollinator habitat

The R/R TWG Leadership Team is looking forward to seeing you in Providence, RI this summer!

Jerry Hatcher – Chair
 Roadway/Roadsides TWG – AASHTO SCOM
Jerry.Hatcher@tn.gov, 615-741-2027

Turner - Fairbank Highway Research Center Update

“Between the planned, new, and ongoing research projects, much preservation-related work has been going on at the Turner-Fairbank Highway Research Center.

TFHRC has posted, for gathering pre-solicitation interest, two new work statements:

- *Pavement Maintenance Techniques: Best Practices.* This project will develop a comprehensive best practices guide and an accompanying set of techbriefs that will provide guidance for the specified maintenance activities, techniques, and materials. The target audience for this effort is state and local highway maintenance managers and field crew leaders.
- *Determining Agency Rules for Bridge Preservation: Develop A Decision Methodology.* The primary objective of this project will be the development of a methodology, guidance, and an accompanying tool for analyzing data and determining agency preservation decision rules.

The two research efforts mentioned in the last newsletter are proceeding well:

- *Recycled Asphalt Pavement (RAP) Use in Pavement Preservation Surface Treatments:* The principal investigator, Greg Duncan, has been busy gathering data through interviews with agencies that are using RAP in their surface treatments. We are looking forward to seeing a compilation of Greg’s findings over the next couple months.

- *Determining Highway Asset and Data Inclusion in an Asset Management System:* We have recently received the interim deliverable and work plan for this project that outlines the path forward to develop a flexible methodology to best determine the inclusion of highway assets and their data.

For our ongoing projects:

- The Robotic Subsurface Utility Mapping and Guidance Project “RUMI”, is halfway through the contract performance period. As you may recall, the ultimate goal of this project is to develop a partially-robotic system that simultaneously maps subsurface utility conflicts in 3D and installs new utility conduits in near real time. The developer, Intelligent Automation Inc., provided a demonstration of the robot at TFHRC late last year, and also displayed it at the TRB Annual Meeting in January.
- “*Effective Use of Geospatial Tools in Highway Construction*” We will receive final deliverables for this project in early April.
- “*New Approaches to Utility Cut Pavement Repair*” We have received the final deliverables for this project, and it will be submitted to FHWA publications over the next two months.

Any questions regarding this or any other research and development-related work at Turner-Fairbank Highway Research Center may be directed to Morgan Kessler, PE, Morgan.Kessler@dot.gov, 202-493-3187.

Transportation Research Board Update & NCHRP Corner

TRB Update

TRB Calendar and Upcoming Conferences / Webinars
<http://www.trb.org/Calendar/Calendar.aspx> Webinars are recorded and can be accessed by State DOT employees.

TRB Webinar Registration Information

There is no fee for employees of TRB Sponsors (<http://www.trb.org/Finance/Sponsors.aspx>) or TRB Sustaining Affiliates (<http://www.trb.org/Finance/SustainingAffiliates.aspx>) who register using their work email address. In general the webinars are free for State DOT Employees.

TRB Research Related to Maintenance and Preservation

<http://www.trb.org/MaintenancePreservation/MaintenanceandPreservation1.aspx>

If you have any questions regarding any research related topics, please contact James Bryant, Senior Program Officer, TRB Liaison at jbryant@nas.edu or 202-334-208

NCHRP Corner

Projects Recently Awarded:

Information on Upcoming Projects can be found at:
<http://www.trb.org/NCHRP/UpcomingCRPPProjects.aspx>

Projects Recently Completed:

Information about projects recently completed can be found at the following website:
<http://www.trb.org/NCHRP/NCHRPProjects.aspx>

Research Fields related to maintenance include: Pavements, Operations and Control, General Materials, Illumination and Visibility, Snow and Ice Control, Bituminous Materials, Bridges, Equipment, Maintenance of Way and Structures, Roadside Development, Safety, Concrete Materials, and Vehicle Barrier Systems.

For further information, Please contact Amir N. Hanna, Senior Program Officer, ahanna@nas.edu, 202-334-1431.

From the Editor's Desk

AASHTO SCOM – Assistant Secretary

John A. Perry, FHWA Field Operations Engineer, Boise, ID

Email: johna.perry@dot.gov; Phone: 208-334-9180 x116

The Federal Highway Administration, in partnership with others, is actively advancing Pavement Preservation (When, Where, and How) as an Every Day Counts 4 (EDC-4) initiative. We held regional summits with transportation leads to introduce the underutilized technology and develop an Implementation Plan. During 2017 and 2018 we plan to perform activities within the implementation plan to accelerate national deployment.

FHWA the Pavement Preservation Expert Technical Group (PPETG) is working to update the Pavement Preservation Roadmap; Prepare a list of the Top Ten Characteristics; Define Performance Measures; Calculate Benefits of the PP Program and Define distress warrants for various pavements types.

FHWA's Acting Deputy Administrator, Butch Waidelich recently announced that Bryan Cawley will be reassigned to the position of Wyoming Division Administrator.

Please join me in wishing Bryan well as he moves into his new position.

Please be safe and continue doing a great job,

2017 Summer Meeting Information

We have confirmed the dates July 29 - August 3, 2017 and Rhode Island is excited about hosting the annual conference in Down Town Providence later this year. The conference planning team is actively preparing for the summer meeting and is working with AASHTO to make the annual SCOM conference a success. We look forward to seeing everyone in Providence!

Mission Statement:

The Rhode Island Department of Transportation (RIDOT) designs, constructs, and maintains the state's surface transportation system. With a staff of more than 700 transportation professionals, RIDOT serves as the steward of a statewide multimodal transportation network, consisting of 3,300 lane miles of roadway, 1,162 bridges, five rail

stations, and more than 60 miles of bike and pedestrian paths. <http://www.dot.ri.gov/about/index.php>

Joseph A. Bucci, P.E.
RIDOT State Highway Maintenance Operations Engineer
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The SCOM Planning Team began coordination efforts to develop the summer meeting agenda early in 2017. A technical tour is being scheduled for Wednesday afternoon and may include visiting several of the historic Newport Mansions. The meeting logo has been selected and a team is working to schedule the conference rooms. Shirts for volunteers and delegate gift bags are in the works. Registration is scheduled to be open April 17th and an announcement will be sent out in early April. Planning and logistics are on schedule.

The meeting will be held July 29-August 3 in Providence, at the Rhode Island Convention Center. See photo and the following website for additional information.
<http://www.riconvention.com/>



Recommended lodging accommodations are at the adjacent Omni Providence Hotel
<https://www.omnihotels.com/hotels/providence>

The SCOM Conference Website is currently under development and information will include a Summary, Sponsor Registration, Hotel Info/Location, Staff, FAQs, and Contact Us.

Future AASHTO SCOM Meetings:

2018 North Carolina
2019 Michigan
2020 Colorado
2021 Maine

AASHTO SCOM Leadership

Executive Leadership:

<http://maintenance.transportation.org/Pages/ExecutiveLeadership.aspx>

TWG Leadership:

<http://maintenance.transportation.org/Pages/TechnicalWorkingGroupLeadership.aspx>

AASHTO SCOM & Technical Working Group Leadership

Chair:	VACANT	<u>Pavement TWG</u>	Anita Bush, NV – Chair
Vice Chair:	Russell Yurek, MD	Vice Chair	Scott Capps, NC
Vice Chair:	Steve Lund, MN	Vice Chair	Bart Sweeney, CT
Secretary:	Bryan Cawley, FHWA-HQ	Liaison	Marc Hoelscher, FHWA-SD
Asst. Secretary:	John Perry, FHWA-ID		
AASHTO Liaison:	Jameelah Hayes, DC	<u>Bridge TWG</u>	Jeff Milton, VA – Chair
Research Coordinator:	Jon Wilcoxson, KY	Vice Chair	Steve Cook, MI
TRB Contact:	James Bryant, DC	Vice Chair	David Miller, LA
		Liaison	Morgan Kessler, FHWA-TFHRC
<u>Roadway/Roadside TWG</u>	Jerry Hatcher, TN – Chair	<u>Equipment TWG</u>	Tim Cunningham, KS – Chair
Vice Chair	Erany Robinson-Perry, GA	Vice Chair	Bruce Erickson, OR
Vice Chair	Thomas Lyden, OH	Vice Chair	Lisa Kunzman, CA
Liaison	William Beatty, FHWA-NC	Liaison	Randy Jensen, FHWA-CO
<u>Maintenance Operation</u>	Brad Darr – Chair		
Vice Chair	Dale Doughty, ME		
Vice Chair	Jim Fedra, SC		
Liaison	Paul Pisano, FHWA-HQ		

Useful Links and Information

Useful Links and Information

AASHTO SCOM Home Page

<http://maintenance.transportation.org/Pages/default.aspx>

AASHTO SCOM References, Publications, & Links

<http://maintenance.transportation.org/Pages/References.aspx>

AASHTO SCOM Technical Service Programs (TSP)

Equipment Management: <http://www.emtsp.org/>

Transportation System Preservation: <https://www.tsp2.org/>

Winter Maintenance: <http://sicop.transportation.org/Pages/default-old.aspx>

AASHTO Transportation Curriculum Coordination Council (TC3)

<http://tc3.transportation.org/>

FHWA Preservation (Pavements, Structures, Research)

<http://www.fhwa.dot.gov/preservation/>

FHWA Pavements Preservation

<http://www.fhwa.dot.gov/pavement/pres.cfm>

FHWA Long-Term Bridge Performance Program

<http://www.fhwa.dot.gov/research/tfhrc/programs/infrastructure/structures/ltpb/>

FHWA Road Weather Management

<http://www.ops.fhwa.dot.gov/weather/>

FHWA Federal-aid Essentials Videos for Locals

<http://www.fhwa.dot.gov/federal-aidessentials/indexofvideos.cfm>

Google State DOT Search Engine

<https://www.google.com/cse/home?cx=006511338351663161139:cnk1qdck0dc>

Maintenance Manual (July 2014) – California

<http://www.dot.ca.gov/hq/maint/manual/maintman.htm>

Snow and Ice Best Practices – Ohio

<http://www.dot.state.oh.us/Divisions/Operations/Maintenance/SnowandIce/Pages/SnowBestPractice.aspx>

Structure Maintenance and Investigations

<http://www.dot.ca.gov/hq/structur/strmaint/>