

The Maintenance Manager

A quarterly e-newsletter of the AASHTO Highway Subcommittee on Maintenance Volume 6, No. 1

Message from the Chair:



Hello Maintenance Community:

As members of the maintenance community you all have learned to think on your feet and adapt to changing situations. Your skills are going to be called on now more than ever. Our State budgets are cut to the bone and everyone has been forced to prioritize where to spend your precious resources. I see the transportation infrastructure condition being challenged as never before in my state, and I assume that most of you are dealing with the same predicament. Although you may think that I am going down a negative path, I am not.

Our Maintenance community has been working hard over the last 10 years to position ourselves to be able to “tell our story” through the use of performance measures, to be able to demonstrate what outcomes would be achieved with additional resources, and be accountable for the results. To hear our President, in the State of the Union, speak about the importance of infrastructure to the American economy and quality of life I know that our message is being heard. To have Secretary LaHood announce, as part of the President’s budget, a significant ramping up of funding for transportation is another significant step for us, and indicating that there would be a performance element tied to greater flexibility

is, in my opinion, the right direction . Although, I think the task of identifying the revenues will be the challenge, I am still optimistic.

AASHTO, all of its committees, and more importantly YOU have been preparing for this discussion for many years. We are ready to help lead and define the way to deliver our transportation services for the future. Get involved, stay excited, and be the person that your coworkers turn to when they want direction.

Carlos

(Carlos Braceras, UDOT Deputy Director, is the current Chairman of the Subcommittee on Maintenance)

Subcommittee Activities

Equipment Technical Working Group



Equipment Management Technical Services Program (EMTSP)

On-line videos of the presentations made on October 5th, 6th, and 7th, at the 2010 Northeast/Midwest Joint Equipment Management Meeting in Pittsburgh are now available on the EMTSP website. The direct link to the video page is <http://www.emtsp.org/news/2011/videos-2010-emtsp-meeting-now-available>.

The 2011 Northeast/Midwest Joint Equipment Management Meeting is being

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planned for August 15-18, 2011 in Kansas City, Kansas. The 2011 Western States Highway Equipment Managers Association is scheduled for August 29 - September 1, 2011 in Seattle, Washington. More information concerning these events is posted on the EMTSP website under "Upcoming Events" at <http://www.emtsp.org>.

The EMTSP, AASHTO's effort to provide agency fleet managers with a forum for technical transfer among peers, is supported through an annual voluntary contribution from member agencies. The contributions so far this year are extremely low. With the current level of contributions, the EMTSP will not have the budget that was available last year. Consequently, the EMTSP will not be able to accomplish the same level of progress this year without additional contributions.

Only 21% of the states have contributed this year, compared to 44% last year. The \$3,000 contribution for EMTSP is very small compared to other TSPs, and this program is also authorized for use of 100% State Planning and Research (SP&R) funding without non-Federal funding match.

As we are all keenly aware, highway equipment fleets represent a very large capital investment and are vital to the delivery of state programs and services. Given current budget challenges, the timing of this program could not be better, as it will offer our fleet managers excellent opportunities to learn about and share peer state and industry strategies with the

potential to improve fleet performance and optimize available resources.

One confusing factor is that the EMTSP was previously named "Advance Equipment Technology Operations" (AETO) and that name still appears on some AASHTO documents, including the invoices for the voluntary contributions. To eliminate this confusion, the Equipment TWG submitted an administrative resolution, for which AASHTO distributed a ballot to the primary SCOM members in each state to officially change the name to Equipment Management Technical Services Program (EMTSP). If this resolution is passed by SCOM, SCOH, and BOD, then the confusion should be eliminated in the future.

If your state has not yet remitted the voluntary contribution, you are encouraged you to do so as this is the first effort of its kind by AASHTO to serve the needs of highway agency equipment fleet professionals.

NCHRP Project 20-7 – Task 309 – Challenges and Opportunities: A Strategic Plan for Equipment Management Research

The problem statement for this project was developed by the EMTSP Oversight Panel in conjunction with its strategic plan to help accelerate the delivery of many action items included the EMTSP Strategic Plan. This research project will organize the topical areas in which research is needed, synthesize related research work which has been completed or is currently underway,

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identify the gaps, and develop a research implementation plan with a prioritized listing of proposed research topics in each of the previously identified areas.

NCHRP staff is currently establishing a panel to provide overall counsel and technical guidance for this project. It is expected that the outcome of this research will result primarily from a workshop of professionals involved in the different aspects of equipment management. NCHRP will retain a consultant with familiarity with equipment management issues to facilitate the workshop and prepare a report of the workshop deliberations and findings. The panel will be expected to participate in this workshop, provide input, and review the report on workshop findings.

If NCHRP invites you to serve on this project panel, please consider investing your time and talents to help us with this needed research.

NCHRP Project 13-03A - Decision Making for Outsourcing and Privatization of Vehicle and Equipment Fleet Maintenance

The research agency, Booz Allen Hamilton, submitted their Final Report for the project, which includes a summary of the research, performed and related findings, the recommended outsourcing decision framework, and case studies that illustrate the practical application of the recommended framework. The research project panel, which includes several

members of the SCOM Equipment TWG, has reviewed the report and made their recommendations.

A decision was made to publish the report in the NCHRP report series. The findings of the research will be presented to SCOM at the annual meeting in July. At that time, the Equipment TWG will consider submitting the guidelines to SCOM for consideration to be formally accepted for adoption by AASHTO and published as an AASHTO guideline.

For more information contact Erle W. Potter, P.E. at (804) 786-0584.

Bridge Technical Working Group

Bridge Preservation

In recent years the emphasis of transportation has evolved from building new Freeways and Highways to improved processes to manage our transportation assets in a systematic, economical and resource efficient way. As State Transportation Departments move toward a more balanced funding strategy, use of Federal-aid on preservation activities is initiated for the first time in some states or increased in others. Within the focus of bridge preservation activities eligible for Federal-aid, the Federal Highway Administration (FHWA) relies on State DOT's, in coordination with FHWA Division Offices, to develop Systematic Preservation Agreements aka. Systematic Preventive Maintenance Agreements.

FHWA queried the Financial Management Information System (FMIS) to identify

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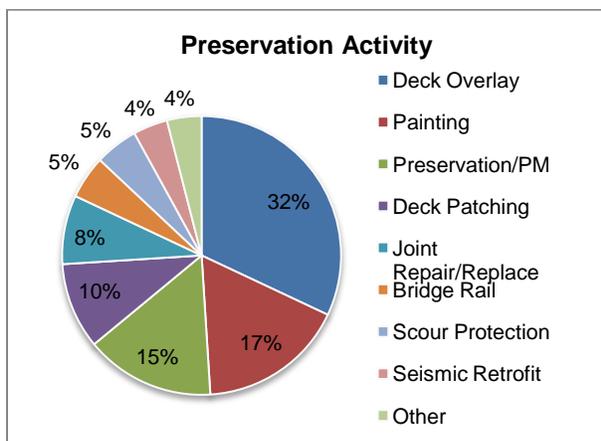
current and most common uses of Federal-aid on bridge preservation projects. For the improvement types Bridge Rehabilitation-Added Capacity, Bridge Rehabilitation-No Added Capacity, and Bridge Preventive Maintenance; authorized for construction during FY 09 and FY10 a resultant 1066 projects were identified as bridge preservation type activities. Preservation type projects were authorized in at least 45 of the 52 FHWA Division Offices and the breakdown of the significant types of work are, 32% deck overlays; 17% painting (zone and full); 15% Preventive Maintenance or Preservation (per project description); 10% deck patching; 8% joint repair/replacement/sealing; 5% bridge rail; 5% scour protection; 4% seismic retrofit; and 4% other activities include structure cleaning, repair of beam, beam end, girder bearing, substructure, superstructure, pin and hanger on a significantly less frequent occurrence. As Preservation activities increase, so does the research and emphasis on selecting the right treatment at the right time.

For more information contact Sheila Masters P.E., System Preservation Engineer with the Federal Highway Administration at 202-366-1557

AASHTO TSP-2 Update

Last year was an extremely busy and successful year for AASHTO's TSP-2 initiative. Please visit the program website at www.tsp2.org for the latest information on Pavement and Bridge Preservation related activities across the country.

TSP-2 Bridge: As a result of the hard work and commitment of dozens of "newly minted" agency, industry and academic Bridge Preservation Champions, spurred on by the NCPP team, the AASHTO TSP-2 Bridge Program was able to go from ZERO to SIXTY in record time in 2010! Bridge Preservation Partnerships were established in all four regions of the country and each partnership held their initial conferences, elected directors and generated action plans. Over 90% of the state DOT's in each region were represented at the four conferences with an average attendance of more than 80 participants. Over the past year, each partnership has continued to pursue action items related to research, public awareness, specifications, performance measurement and identification of best practices. Industry interest and participation in the program has been quite strong and at the time of this writing, 13 companies had taken advantage of the discounted National Membership option and will therefore be participating in



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all four partnership meetings in 2011. The meeting schedule for 2011 is included below. The AASHTO TSP-2 Midwest and Western Regional Bridge Preservation Partnerships will be meeting in conjunction with the National Bridge Management, Inspection and Preservation Conference in St. Louis, Missouri on October 31-November 4, so mark your calendars for this event.

TSP-2 Pavement: Now in its 6th year, AASHTO TSP-2 has provided continual technical support to pavement preservation practitioners from around the country through the program website, on-line reference library, help-desk and through facilitation of regional pavement preservation partnerships. The four regional partnerships have now reached a level of maturity as exemplified by seeing members develop close professional working relationships through on-going communications and peer exchanges. Attendance at the four regional partnership meetings in 2010 was very good with up to 100 participants at some meetings. Regional DOT participation also averaged more than 90%. Industry participation is growing thanks to increased interest from NAPA and ACPA contractors combined with the on-going support from pavement preservation contractors and suppliers and groups such as FP2 Inc., IGGA, ISSA, ARRA, and AEMA. Big news among the partnerships last year was the expansion of the Rocky Mountain Partnership which now includes the western states of California, Washington, Nevada, and Hawaii. As a

result of these additions, the partnership changed its name to the “Rocky Mountain West” Pavement Preservation Partnership. Save the dates for the four regional partnership meetings that are planned for 2011 and included in the NCPP events calendar below. The upcoming SEPPP meeting, which will be held next month in Oklahoma, will feature a field trip to a pavement preservation treatment research test deck managed by the Oklahoma DOT and the University of Oklahoma. This research project is a continuing evaluation of surface texture and friction characteristics for various preservation treatments.

For more information contact Steve Varnedoe - National Center for Pavement Preservation at (919) 812-5278

[Pavement Technical Working Group](#)

NCHRP Microsurfacing Report is Available

The National Cooperative Highway Research Program (NCHRP) recently published Synthesis 411: Microsurfacing.

This study gathered information on the use of highway microsurfacing treatments by transportation agencies in the United States and Canada. Microsurfacing is a polymer-modified cold-mix surface treatment that can remedy a broad range of problems on today's highways. The report identifies and discusses practices reported as effective by transportation agencies in microsurfacing project selection, design, contracting,

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equipment, construction, and performance measures.

Information used in this study was acquired through a review of the literature, a survey distributed to maintenance engineers at all U.S. state departments of transportation (DOTs) and Canadian provincial transportation agencies, evaluation of all 50 state DOT microsurfacing specifications as well as the one used by the U.S. Federal Lands Highway Division, and case studies of six microsurfacing projects from five U.S. states and one Canadian province.

Douglas D. Gransberg, Iowa State University, Ames, Iowa, collected and synthesized the information and wrote the report. Dr. Gransberg previously authored NCHRP Synthesis 342: Chip Seal Best Practices, which has been one of NCHRP's best selling publications over the past five years. This new synthesis is an immediately useful document that records the practices that were acceptable within the limitations of the knowledge available at the time of its preparation.

The Microsurfacing report can be downloaded in .pdf format at this link: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_411.pdf.

Each State DOT should have received a "hard copy" of the report. Additional copies may be ordered through the TRB website at this link: <http://books.trbbookstore.org/syh411.aspx>.

Thanks to all of the State Maintenance Engineers who participated in the survey that helped to make this Synthesis possible!

For more information contact Steve Mueller with the FHWA Resource Center at (720) 963-3213

Message from Lacy;

Dear SCOM Members and Friends,

After nearly 32 years with the North Carolina Department of Transportation, I have decided to retire. I have been very blessed and lucky to have had an opportunity to work for a wonderful organization like NCDOT and cherish the friendships and memories from that experience.

I am equally appreciative of my association with the SCOM and the many folks I have met and come to know within the Maintenance community. Our members are some of the finest, dedicated, and hard working professionals that I have ever met. The members are what make AASHTO SCOM a great organization and I appreciate your support during the time that I have served as your Vice-Chairman. I would also like to thank Carlos for giving me the opportunity to serve as your Vice-Chairman and I would especially like to thank him for his support of our committee.

While I am leaving NCDOT, I am not abandoning SCOM. I have accepted a position with AASHTO and will continue to work with you in my new position as your AASHTO liaison! I will begin my new career

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with AASHTO this spring and look forward to seeing you at the SCOM summer meeting in Kentucky. I hope you will feel free to call on me any time if I can be of assistance.

Thank you.

Lacy

Roster's Update

Please visit the Subcommittee of Maintenance website, <http://maintenance.transportation.org/Pages/default.aspx?siteid=7> click on Members, then State DOT Members and review your posted information. If you need to change/update any personal info, please click on the question, "*Need to correct something?*" located underneath "State DOT Members", fill out the form and follow instructions.



2011

Partnership Meetings & NCPP Events

Regional Pavement Preservation Partnership Meetings

- May 4 - 6 Southeast Pavement Preservation Partnership
- Oct. 4 - 6 Rocky Mountain West Pavement Preservation Partnership
- Oct. 25 - 27 Midwest Pavement Preservation Partnership
- Nov. 8 - 10 Northeast Pavement Preservation Partnership

TSP-2
 Oklahoma City, OK
 Reno, NV
 Bismarck, ND
 TBA *

Regional Bridge Preservation Partnership Meetings

- April 13 - 15 Southeast Bridge Preservation Partnership
- Sept. 28 - 30 Northeast Bridge Preservation Partnership
- Oct. 31 - Nov. 4 Midwest Bridge Preservation Partnership
- Oct. 31 - Nov. 4 Western Bridge Preservation Partnership

TSP-2
 Raleigh, NC
 Saratoga Springs, NY
 St. Louis, MO
 St. Louis, MO

Regional Equipment Management Technical Services Programs

- Aug. 15 - 18 Joint Northeast & Midwest Equipment Management
- Aug. 29 - 31 Western States Highway Equipment Management Association (WSHEMA)

EMTSP
AASHTO
 Kansas City, KS
 Seattle, WA

National Pavement & Bridge Conferences

- Oct. 31 - Nov. 4 National Bridge Management, Inspection & Preservation Conference
- Aug. 26 - 30, 2012 National Pavement Preservation Meeting

St. Louis, MO
 Nashville, TN

* check the NCPP website for further updates:

www.pavementpreservation.org