AASHTO Standing Committee on Highways

**SCOH MEETINGS**

SCOH Technical Meeting:
October 17, 1:00 p.m.–5:00 p.m. (Part 1) | October 18, 8:30–12:00 pm (Part 2)
SCOH Business Meeting: October 18, 1:00 p.m.–5:00 p.m.

Sheraton Denver Downtown Hotel, Denver, Colorado
DATE: September 18, 2013

TO: Members, Standing Committee on Highways

FROM: Walter C. (Butch) Waidelich, Jr., Secretary for SCOH
Associate Administrator for Infrastructure, FHWA

SUBJECT: Annual 2013 SCOH Meeting – Denver, Colorado

The American Association of State Highway and Transportation Officials (AASHTO) will hold its 2013 Annual Meeting in Denver, Colorado. The Standing Committee on Highways (SCOH) technical and business meetings will be held on Thursday, October 17 and Friday October 18, 2013 at the Sheraton Denver Downtown Hotel (room details will be announced when available).

I am happy to serve as Secretary of SCOH and look forward to meeting all of you as we address current and emerging transportation challenges. Mr. Paul Degges, SCOH Vice-Chair from Tennessee DOT, will chair both the Technical and Business meetings when we meet. A new SCOH Chair is yet to be determined.

The SCOH agendas offer several engaging discussions and presentations. Several resolutions need your full attention and will be previewed at the technical meeting on Thursday afternoon. There are a variety of speakers and presentations that you will find engaging and will capture the spirit of transportation innovation in our country today. Also, we would like you to come prepared to speak to the “Hot Topic” on the Technical Agenda, Updating the SCOH Strategic Plan and the AASHTO Strategic Plan Update.

If you are unable to attend the meetings or will be sending a substitute/alternate, please advise Marty Vitale by email (mvitale@aashto.org) as soon as possible or go to https://vovici.com/wsb.dll/s/54c9g5424f and complete the survey, if you haven’t done so already.

Available meeting materials are posted on the SCOH Meetings webpage at: http://highways.transportation.org/. Please be sure to print and bring your meeting materials with you to the meeting. We will bring any updates with us to distribute to each member at the meeting.

I and the officers of SCOH look forward to meeting with you in the wonderful mile high city of Denver, Colorado.
1:00 PM – 1:15 PM

I. CALL TO ORDER

II. Introductions – Opening Remarks
   A. Introduction of new SCOH Secretary, Walter C. (Butch) Waidelich, FHWA
   B. Introduction of SCOH Members, AASHTO Staff, and Colorado Room Monitors

1:15 PM – 3:15 PM

III. SCOH SUBCOMMITTEE REPORTS

   [At this SCOH meeting, 4 Subcommittees will present in-depth discussions and/or presentations on major issues they are dealing with or want SCOH input on.]
   A. Materials
   B. Maintenance
   C. Asset Management
   D. Highway Transport

IV. SCOH SUBCOMMITTEE RESOLUTIONS

   A. Maintenance
   B. Traffic Engineering
      1. Proposed Administrative Resolution: Review ITS Warrants Developed by the ENTERPRISE Pooled Fund Study (SCOH Only)
   C. Highway Transport
      1. Proposed Policy Resolution: Actions to Reduce Impediments to Interstate Commerce Harmonizing Requirements for Truck Permits – Phase II
   D. Asset Management
      1. Proposed Administrative Resolution: Support of the FHWA Transportation Asset Management Expert Task Group

V. “HOT TOPIC” DISCUSSION (LED BY VICE-CHAIR DEGGES, TN)

   A. Updating the SCOH Strategic Plan
   1. Status of the AASHTO Strategic Plan Update

3:15 PM – BREAK

3:30 PM – 5:00 PM

VI. SCOH STRATEGIC PLAN LIAISON UPDATES

   A. Climate Change
   B. Workforce Planning and Development
   C. Cutting Fatalities

AASHTO Annual Meeting, October 17 – 21, 2013
VII. ROUND TABLE TOPICS (INFORMATION ATTACHED) ......................................................... Vice-Chair Degges

VIII. TECHNICAL PRESENTATIONS SUGGESTED BY THE SCOH MEMBERS ............................ Vice-Chair Degges
A. Buy America and Property Rights .......................................................... Matt DeLong, MI
B. Update on 5.9 GHz Spectrum Sharing ............................................ Michael Cammisa, Association of Global Automakers

5:00 PM ADJOURN PART 1

PRELIMINARY TECHNICAL MEETING AGENDA (PART 2)
FRIDAY, OCTOBER 18, 2013 – 8:30 a.m.–12:00 p.m.
Conference Call Number 1-866-299-7945 – Passcode: 4370119#

8:30 AM CONVENE SCOH TECHNICAL AGENDA, PART 2 .................................................. Vice-Chair Paul Degges

8:30 AM – 10:00 AM

VIII. SCOH SUBCOMMITTEE RESOLUTIONS (CONTINUED FROM THURSDAY)
A. Standing Committee on Highway Traffic Safety ................................................................. Tom Cole, ID
   1. Proposed Administrative Resolution: Establishment of a Joint Task Force on Implementation of the
      SHRP2 Naturalistic Driving Study Data (SCOH Support Report to the BOD)

IX. STATUS REPORTS FOR DISCUSSION
A. Systems Operation and Management ................................................................. Don Hunt, CO
   1. FHWA–AASHTO update on the ongoing SHRP2 L12 Train-the-Trainer Incident Management
      Program ........................................................................................................ Jennifer Toth, AZ and Jeff Lindley, FHWA
B. SHRP2 Implementation Update ............................................................................ Pam Hutton, AASHTO
C. Colorado Wildfires and Floods ........................................................................ Tim Harris, CO
D. FHWA’s Risk-based Approach to Project Stewardship and Oversight .................. Butch Waidelich, FHWA

X. ROUND TABLE TOPICS (CONTINUED) .............................................................................. Vice-Chair Degges

10:00 AM – Break

10:15 AM – 11:45 AM

XI. PRESENTATIONS
A. Quick-Hitting Research Results .............................................................................. Richard Savoie, LA
   1. Analysis and Methods of Improvements of Safety at High-Speed Rural Intersections ......................
      ............................................................................................................................... Jason Wasson, IN
   2. Impact of Non-Freeway Rumble Strips – Phase 1 ........................................ Greg Johnson, MI
   3. Recommended Guide for Next Generation of Transportation Design-Build Procurement and
      Contracting in the State of Georgia ....................................................................... Russell McMurry, GA
   4. Variable Speed Limit System for I-80 Elk Mountain, Wyoming, Corridor ...................... Del McOmie, WY
   5. Use of Moisture Induced Stress Testing to Evaluate Stripping Potential of Hot Mix Asphalt (HMA) ...
      ............................................................................................................................... Joyce Taylor, ME
B. Knowledge Management – Do You Know What You Don’t Know? ....................... Randy Battey, MS
C. AASHTOWare Program Benefits .............................................................................. Tom Cole, ID
D. AMRL Accreditation Program .............................................................................. Brian Johnson, AMRL (AASHTO)

12:00 NOON – ADJOURN

AASHTO Annual Meeting, October 17 – 21, 2013
Alaska - Roger Healy, roger.healy@alaska.gov
  • LED Highway Lighting

  • Railroad PE and Construction

Georgia - Russell McMurry, rmcmurry@dot.ga.gov
  • I would like to get States experience in best value selections via design build or P3 procurements as it relates to award announcements and technical component make up.

Hawaii - Director Glenn Okimoto, jadine.urasaki@hawaii.gov
  • BUY AMERICA
  • Section 106
  • Programmatic Agreements
  • Asset Management

Louisiana - Richard L. Savoie, richard.savoie@la.gov
  • States experience with Dowel Bar Retofits in PCC Pavement

Maine - Joyce Noel Taylor, joyce.taylor@maine.gov
  • Engaging the "silent majority" in a public process. Are there States who are using social media robustly in an effort to reach more of the public? Are there successful examples where a State was able to work through a potential negative public perception?

Michigan - Gregory C. Johnson, johnsong2@michigan.gov
  • Longitudinal joint density best practices. Are other states having problems with the issue of longitudinal joints in Hot Mix Asphalt pavements failing prematurely? Has your DOT taken a method approach (joint heaters, edge trimming, tacking the joint face)
  • Experience or feedback from states that post fatality numbers on the permanent changeable message boards. Any best practices developed?

Minnesota - Susan Mulvihill, sue.mulvihill@state.mn.us
  • Latest on MAP 21 performance measures.
  • Funding solutions for transportation.

Mississippi - Mark McConnell, mmcconnell@mdot.ms.gov
  • Discuss regulation of Outdoor Advertising on the Enhanced NHS as per MAP 21. If signs off of the state system are in non-compliance with state rule, are the signs illegal or non-conforming, or are they grandfathered? If they are illegal, who pays for the

Nebraska - Mostafa Jamshidi, moe.jamshidi@nebraska.gov
  • ADA and resurfacing projects. We like to discuss a possible transition plan. I could lead the discussion, but won't have a handout.

Nevada - John M. Terry, jterry@dot.state.nv.us
  • Impact of various types of managed lanes (HOV, HOT etc) on urban freeway capacity and operations. John M. Terry Nevada DOT. I can lead, brief powerpoint if needed. No handouts.

Ohio - James A Barna, jim.barna@dot.state.oh.us
  • Performance Measures

Pennsylvania - Scott Christie, rchristie@pa.gov
  • Update on FHWA assistance with ADA
  • Update on FHWA assistance with problems with AMTRAK

Rhode Island - Kazem Farhoumand, kazem.farhoumand@dot.ri.gov
  • Construtability Reviews
  • Efforts minimize construction change orders
  • Contract Time Determination
Tennessee - Paul Degges, paul.degges@tn.gov

- Are states having trouble utilizing all of their Obligational Authority (OA) given the limited Apportionments available?
- Are states having issues with MPO's obligating funds?
- Is the recent FHWA ruling on Buy America with regards to utilities having any impacts on projects in states.
- Has the elimination of the Bridge funding code had any impacts on funding of bridge programs?
- Are any states having issues in spending Safety dollars?
- How are states planning for/dealing with/managing programs with the impending “fiscal cliff” at the end of MAP-21 next year?
WHEREAS, AASHTO and its members, the State Departments of Transportation (DOTs), fully support the Americans with Disabilities Act (ADA), which was enacted to provide accommodation for individuals with disabilities as an intrinsic part of the nation’s transportation system; and

WHEREAS, Over the past decade, AASHTO and the State DOTs, along with representatives from disability organizations, public works departments, transportation and traffic engineering groups, the design and civil engineering professions, government agencies, and standards-setting bodies, have collaborated to advise the U.S. Architectural and Transportation Barriers Compliance Board (Access Board) in the development of guidelines for accessibility with the public rights-of-way; and

WHEREAS, On November 23, 2005, the Access Board published revised draft accessibility guidelines for public rights-of-way; and

WHEREAS, On September 12, 2006, the Federal Highway Administration (FHWA) announced consolidating guidance to clarify and address ongoing issues concerning FHWA's oversight of States’ and localities’ compliance with ADA and Section 504 of the Rehabilitation Act of 1973; and

WHEREAS, The United States Department of Justice, Civil Rights Division, also works with State and local governments to help them achieve compliance with Title II of the ADA and Section 504 of the Rehabilitation Act; and

WHEREAS, In June 2013, a document entitled “Department of Justice/Department of Transportation Joint Technical Assistance on the Title II of the Americans with Disabilities Act Requirements to Provide Curb Ramps when Streets, Roads, or Highways are Altered through Resurfacing,” was issued to FHWA Division Offices and communicated to AASHTO members; and

WHEREAS, While the June 2013 Department of Justice/Department of Transportation Joint Technical Assistance document specifically recognizes that “maintenance activities on streets, roads, or highways, such as filling potholes, are not alterations,” it has created confusion among the States regarding the categorization of certain preventive maintenance and pavement preservation activities as “alterations”; and

WHEREAS, MAP-21, enacted into law on July 6, 2012, reflects a national policy of increased emphasis on preventive maintenance and pavement preservation; and

WHEREAS, The categorization of several preventive maintenance and pavement preservation activities as “alterations” with respect to ADA in the June 2013 joint technical assistance document is inconsistent with statutorily-defined definitions found in MAP-21, as well as definitions used in standard engineering practice; and
WHEREAS, This categorization of “preventive” and “preservation” activities as “alterations” will require that their use be combined with additional work, which will increase their cost, discourage their use, and impede the ability of State transportation agencies to meet pavement condition performance measures that are being developed as part of the implementation of MAP-21, thus creating undue risks to the transportation infrastructure; and

WHEREAS, The disincentive to using preventive and preservation treatments by making them more expensive will result in: 1) additional costs to AASHTO member agencies and the public due to pavements deteriorating to a condition where rehabilitation will need to be done rather than preventive maintenance; 2) deferred surface-related safety improvements and associated negative impacts to all users of the roadway system and pedestrian facilities; and 3) additional environmental impacts from the use of rehabilitation and reconstruction techniques that require more materials, energy, and higher greenhouse gas emissions than preventive maintenance treatments; now therefore be it

RESOLVED, That the AASHTO Subcommittee on Maintenance requests clarification regarding the various interpretations of the terms “maintenance” and “alteration” with regard to ADA requirements that have been produced by the USDOJ, the US Access Board, and the USDOT as applied to the various types of pavement work; and be it further

RESOLVED, That the AASHTO Subcommittee on Maintenance requests that USDOJ and USDOT classify “preventive maintenance” and “pavement preservation” activities as “maintenance” for the purposes of the ADA; and be it further

RESOLVED, That the AASHTO Subcommittee on Maintenance requests that any proposed agreements between federal agencies regarding this matter be subject to the federal rulemaking process to ensure that all stakeholders, including the transportation system owners charged with implementing the policy, will have input into the process, and that potential impacts can be fully assessed; and be it finally

RESOLVED, That AASHTO and its State DOT members stand ready to work with USDOT, USDOJ, and other stakeholders to achieve greater accommodation without imposing undue cost and delay on critical routine maintenance activities.
Highway Subcommittee on Maintenance
Proposed Administrative Resolution

TITLE: Task Force to Review and Make Recommendation Regarding Maintenance Quality Assurance

WHEREAS, The AASHTO Highway Subcommittee on Maintenance has recognized the need to identify common highway performance measures for Infrastructure assets and made available to all state highway agencies, and

WHEREAS, Many state highway agencies have developed performance measures and methodologies to ascertain the condition of their highway infrastructure assets, and

WHEREAS, Many state highway agencies have recognized a need for key national common performance measures, and

WHEREAS, The AASHTO Highway Subcommittee on Maintenance successfully conducted workshops on common measures in Scottsdale, Arizona, and two Peer Exchanges in Madison, Wisconsin and Durham, North Carolina, as well as conduct a domestic scan, and

WHEREAS, These events have demonstrated value of benchmarking, Maintenance Quality Assurance programs, maintenance management, target setting, and assessment methodologies,

WHEREAS, With the passage of MAP – 21, (Moving Ahead for Progress in the 21st Century) there is an increased emphasis on establishing national performance measures for highway infrastructure assets, and as a minimum, each state highway agency, including Puerto Rico and District of Columbia, will be required to develop a risk based Asset Management Plan for Pavements and Bridges, now, therefore be it

RESOLVED That the AASHTO Highway Subcommittee on Maintenance will appoint a Task Force, for Common Infrastructure performance measures, whose membership will be from the SCOM and other stakeholders as identified by SCOM, and therefore be it

RESOLVED, The Task Force will identify a process to collect and synthesize MQA measures being used by the states (excluding those being studied by Standing Committee of Performance Measures), and therefore be it further

RESOLVED That the Task Force will work with AASHTO staff to identify funding resources to conduct peer-exchange webinars and workshop for Task Force members to develop a business plan that will address the establishment of a framework for a comprehensive database on common performance measures (not including Pavement and Bridges as referenced in MAP-21), and therefore be it

RESOLVED, The Task Force will report back to the full AASHTO Subcommittee on Maintenance their findings and recommendations.
WHEREAS, AASHTO SCOTE is a member of the National Committee on Uniform Traffic Control Devices (NCUTCD) which assists in the development of standards, guides and warrants for traffic control devices and practices, and makes recommendations to the Federal Highway Administration (FHWA) for the Manual on Uniform Traffic Control Devices (MUTCD); and,

WHEREAS, Intelligent Transportation System (ITS) Devices have been deployed for over 20 years with no specific guidance on justifying ITS deployments.

WHEREAS, The ENTERPRISE Transportation Pooled Fund TPF-5(231) has sponsored a project to develop Intelligent Transportation Systems (ITS) Warrants and published “Warrants for the Installation and Use of Technology Devices to Assist Transportation Operations, Traffic Management Information Dissemination”, dated May, 2010, as documentation of a method to determine where ITS device deployments are appropriate and validate existing ITS deployments of Closed Circuit Television, Road Weather Information Systems, Dynamic Message Signs, Work Zones, Highway Advisory Radio, Ramp Meter, Curve Warning System, Variable Speed Limit, and Dynamic Speed Display; Intersection Conflict Warning Systems; and,

WHEREAS, The ENTERPRISE project recommended that additional review and feedback is needed to continue to enhance the ITS warrants; therefore be it

RESOLVED, That, AASHTO SCOTE review the ITS Warrants developed by the ENTERPRISE Pooled Fund, and provide comment so modifications can be made to the warrants so they will best assist transportation professionals in their decision to use the ITS tools identified above. SCOTE may advise Enterprise that the review of some warrants should be done by other AASHTO subcommittees.
WHEREAS, The nation’s highway system is central to economic growth, job creation and the performance of the U.S. economy, and a key contributor to American competitiveness in the global marketplace;

WHEREAS, Highways the volume of freight on highways is large and growing;

WHEREAS, Trip time and reliability are critical in today’s “just-in-time” economy;

WHEREAS, It is essential that steps be taken to guarantee that the movement of freight on highways is as efficient as possible;

WHEREAS, Measures to improve the efficiency of freight transportation require close collaboration between government and business;

WHEREAS, States are responsible for the issuance of permits to allow the movement of shipments that exceed standard limits for weight or dimension;

WHEREAS, These shipments have grown in number and importance in recent years, especially in sectors critical to security and the growth of the economy;

WHEREAS, Unintended and unnecessary differences in requirements for oversize/overweight permits can result in delays to the industry resulting in increased product cost to the end user;

WHEREAS, Unintended and unnecessary differences in requirements for oversize/overweight permits can result in delays in the delivery of emergency response and relief shipments;

WHEREAS, Since 1937, the AASHTO Subcommittee on Highway Transport has maintained the Guide for Vehicle Weights and Dimensions;

WHEREAS, The Subcommittee on Highway Transport has identified certain truck permit procedures and requirements that can be harmonized among states without compromising safety or infrastructure preservation;

WHEREAS, Harmonizing truck permit requirements among states will improve customer service, reduce costs, and increase efficiency in state government;

WHEREAS The AASHTO member states are committed to harmonizing permit procedures and requirements between states, among states in regions, and on multi-state corridors;

WHEREAS, The AASHTO Board of Directors established a truck oversize/overweight permit harmonization initiative to focus initially on several requirement categories (PR-3-12);

WHEREAS, The Subcommittee on Highway Transport made significant strides towards achieving consensus on these initial requirement categories at its 2013 Annual Meeting in Wilmington, North Carolina;

WHEREAS, The Subcommittee on Highway Transport continues its work on these initial requirement categories, henceforth known as Phase I; now, therefore be it
RESOLVED That by this resolution the AASHTO Board of Directors continues its oversize/overweight permit harmonization initiative through the inclusion of the following requirement categories (consistent with the AASHTO Guide for Vehicle Weights and Dimensions):

- Number of Valid days allowed on single trip permits
- Permit Amendments
- Holiday Restrictions
- Type and size of Escort Vehicles
- Escort Requirements for Over dimensional Loads; be it further

RESOLVED That the Subcommittee on Highway Transport will identify additional candidates for truck oversize/overweight permit harmonization, coordinate with private sector shippers and carriers, and present additional initiatives to SCOH for submission to the AASHTO Board of Directors for implementation.
AASHTO Planning Subcommittee on Asset Management
Proposed Administrative Resolution
TITLE: Support of the FHWA Transportation Asset Management Expert Task Group

WHEREAS, MAP-21 legislation requires that states prepare risk-based asset management plans; and

WHEREAS, States are recognizing the benefits to using asset management strategies to cost-effectively manage their transportation assets; and

WHEREAS, States will need assistance and guidance in developing their Asset Management Plans; and

WHEREAS, The Transportation Asset Management (TAM) Expert Task Group (ETG) was established by FHWA in March 2012 to provide input to FHWA, AASHTO, and TRB to help states with the implementation of asset management; and

WHEREAS, The existing TAM ETG support contract expires in September 2013; and

WHEREAS, The TAM ETG has developed a strategic plan that outlines a roadmap for the types of implementation assistance that states will need to fully implement asset management; now, therefore be it

RESOLVED, That the AASHTO member states believe there is a benefit to continuing the work of the TAM ETG to provide on-going technical assistance and to guide the implementation of its strategic plan; and be it further

RESOLVED, AASHTO appreciates FHWA leadership’s continued recognition of the TAM ETG’s importance and the need for implementing its strategic plan; and be it further

RESOLVED, AASHTO encourages FHWA to continue providing financial support for the TAM ETG through their program funds; and be it further

RESOLVED, TAM ETG includes sufficient representation from the state DOTs; and be it further

RESOLVED, That AASHTO will continue to work with FHWA in organizing and supporting the TAM ETG working through the Subcommittee on Asset Management.
WHEREAS, The second Strategic Highway Research Program (SHRP2) is nearing completion of the largest naturalistic driving study (NDS) ever conducted; and

WHEREAS, The NDS will provide unprecedented insights into driver behavior during normal driving conditions and prior to crashes and near-crash events; and

WHEREAS, The NDS will provide a voluminous database that will require new skills for safety researchers to extract and analyze the data; and

WHEREAS, AASHTO has a keen interest in ensuring that the research is conducted from concept to countermeasure to identify meaningful strategies that further reduce highway crashes; and

WHEREAS, the research and the implementation of countermeasures will involve numerous AASHTO committees, subcommittees and technical committees; and

WHEREAS, AASHTO desires to accelerate its members' use and understanding of the NDS database for creating new insights into driver behavior and crash factors; and

WHEREAS, AASHTO desires to expedite the identification of findings that can further improve highway safety; now therefore, be it

RESOLVED, that AASHTO will create a SHRP2 Safety Area Task Force to guide the important effort of piloting from concept to countermeasure NDS research and implementation of interest to AASHTO members; and be it further

RESOLVED, That the Task Force will consist of members from the Standing Committee on Highway Traffic Safety, the Subcommittee on Safety Management, the Subcommittee on Traffic Engineering, the Subcommittee on Design, the Technical Committee on Geometric Design, the Technical Committee on Roadside Safety, and a representative from the Governors Highway Safety Association, with liaisons invited to participate from the Federal Highway Administration and the Transportation Research Board; be it further

RESOLVED, That the Task Force shall oversee a series of pilot studies to demonstrate the potential of the NDS to produce meaningful insights into factors that contribute to crashes and that it shall coordinate with the appropriate committees the implementation of policies, standards, guidance and findings to address those factors; be it further

RESOLVED, That staff and operational support shall be provided from resources allocated to support SHRP2 implementation; be it further

RESOLVED, That the Task Force will sunset when the pilot studies and their related implementation efforts are completed.
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On task force but not representing specific committees are: Brad Estochen of MnDOT, Dean Kanitz of Michigan DOT and Hadi Shirazi of Louisiana.
I. Call to Order and Opening Remarks .............................................................. Vice-Chair Paul Degges, TN

II. Roll Call and Minutes from Providence, Rhode Island May 5, 2013 ........................................................ Secretary Walter C. (Butch) Waidelich, FHWA

III. Call for Agenda Amendments ...................................................................................... Vice-Chair Degges

CONSENT AGENDA: A single Motion to accept all the items on this Consent Agenda is in order. After such a Motion is made and seconded, any member may remove an item for separate action. The Consent Agenda Motion will then be voted upon for the balance of the reports. After the Consent Agenda Motion for item IV. and V.A. through D. has been acted upon, the items removed will be taken up in order.

IV. Summary of SCOH Ballots from November 2012 to October 2013 (information) .... Vice-Chair Degges

V. Activity Reports (action) ................................................................................................. Vice-Chair Degges

A. Future Meetings, Conferences, or Workshops of Interest to SCOH Members (information)

B. Subcommittee
1. Bridges and Structures ................................................................................................. Gregg C. Fredrick, WY
2. Construction .................................................................................................................. Michael P. Lewis, RI
3. Design ............................................................................................................................ Barry Schoch, PA
4. Highway Transport ......................................................................................................... Mark Gottlieb, WI
5. Maintenance ................................................................................................................... Carlos Braceras, UT
6. Materials ........................................................................................................................ Mostafa Jamshidi, NE
7. Right-of-Way, Utilities and Outdoor Advertising Control ........................................ Matthew DeLong, MI
8. Systems Operation and Management ........................................................................... Don Hunt, CO
9. Traffic Engineering ......................................................................................................... Ronaldo Nicholson, DC

C. Joint Committee
1. Technology Implementation Group (TIG) ....................................................................... Rich Tetreault, VT
2. AASHTO/ACEC ............................................................................................................. Paul Mattox, WV
3. SCOP-Asset Management (SCOP/SCOH) ..................................................................... Ananth Prasad, FL

D. Special Committee
1. NTPEP Oversight Committee ........................................................................................ Dan Grasser, WI
2. Special Committee on U.S. Route Numbering ................................................................. Gregory Johnson, MI
3. Special Committee on Wireless Technology ..................................................................... William A. Brown, VA

VI. Motions — Proposed Resolutions .................................................................................. Vice-Chair Degges

A. Traffic Engineering .......................................................................................................... Tom Bryon, FL
1. Proposed Administrative Resolution: Review ITS Warrants Developed by the ENTERPRISE Pooled Fund Study

B. Highway Transport ........................................................................................................... Ronnie Baldwin, AL
1. Proposed Policy Resolution: Actions to Reduce Impediments to Interstate Commerce Harmonizing Requirements for Truck Permits – Phase II

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C. Asset Management ................................................................. Matt Hardy, AASHTO Liaison
   1. Proposed Administrative Resolution: Support of the FHWA Transportation Asset Management Expert Task Group

D. Standing Committee on Highway Traffic Safety .......................................................... Tom Cole, ID
   1. Proposed Administrative Resolution: Establishment of a Joint Task Force on Implementation of the SHRP2 Naturalistic Driving Study Data

E. Maintenance .................................................................................. Carlos Braceras, UT
   1. Proposed Policy Resolution: Concerns with Consistency of Definition of Preventive Maintenance and Pavement Preservation within USDOT/USDOJ Joint Technical Assistance

VII. Reports
   A. NCHRP 20-7 .......................................................... Paul Degges, TN, and Chris Jenks, TRB
   B. Special Committee on U.S. Route Numbering (Action) ......................................... Gregory Johnson, MI
   C. Technology Implementation Group (TIG) .................................................. Rich Tetreault, VT
   D. AASHTO/ACEC Joint Committee ....................................................... Paul Mattox, WV

VIII. Presentations and Updates
   A. Executive Director’s Report .......................................................... Bud Wright, AASHTO
      1. MAP-21 Reauthorization Update
   B. FHWA Activities .............................................................. Walter C. Waidelich (Butch), FHWA
   C. ADA Transition Plans ........................................................................ Grindle Johnson, VA
   D. Transportation Association of Canada, Chief Engineers’ Council Update .......... Greg Johnson, MI
   E. Standing Committee on Planning (SCOP) ........................................ Mike Hancock, KY
   F. Standing Committee on Performance Management (SCOPM) ...................... Paul Degges, TN
   G. Introducing the Digital Reference Book ................................................. Erin Grady, AASHTO
   H. AASHTO Centennial Effort ................................................................... Lloyd Brown, AASHTO

IX. Old Business ............................................................................ Vice-Chair Degges

X. New Business ........................................................................... Vice-Chair Degges

XI. Adjourn
### Standing Committee on Highways Chair

**Chair – Non-Voting**
TBD

### Tennessee Department of Transportation

**Vice Chair - Voting**
Paul Degges  
Deputy Commissioner and Chief Engineer  
Tennessee Department of Transportation  
505 Deaderick Street, James K. Polk Building, Suite 700  
Nashville, Tennessee 37243-0339  
615 741-0791; Paul.Degges@tn.gov

### Federal Highway Administration

**Secretary - Non-Voting**
Walter Waidelich  
Associate Administrator for Infrastructure, FHWA  
Federal Highway Administration  
1200 New Jersey Ave., SE  
Washington, Dist of Columbia 20590  
202-366-0371; walter.waidelich@dot.gov

### AASHTO

**Liaison - Non-Voting**
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MEMBERS

Alabama Department of Transportation

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Chief Engineer
Alabama Department of Transportation
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Alaska Department of Transportation and Public Facilities

*Member - Voting*
Roger Healy
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<th>Department</th>
<th>Role</th>
<th>Name</th>
<th>Address</th>
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<tr>
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<td>Darrell Allen</td>
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<tr>
<td>Wisconsin Department of Transportation</td>
<td>Daniel Grasser</td>
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<tr>
<td>Wyoming Department of Transportation</td>
<td>Delbert McOmie</td>
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**Update 10/10/2013**

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Standing Committee on Highways (SCOH)
Minutes, Business Meeting
Providence, Rhode Island
May 5, 2013

I. Call to Order and Carry Over items
The Standing Committee on Highways convened at 1:00 PM. Vice-Chair Paul Degges called the meeting to order. The meeting consisted of a quorum of 39 representatives.

II. Roll Call and Minutes from Previous Meeting
Vice-Chair Degges called for a motion to approve the minutes from the November 16, 2012 Pittsburgh, PA meeting. A motion was made and seconded. The motion was approved.

III. Call for Agenda Amendments
A motion was made by Wyoming and seconded by Idaho to accept the Consent Agenda. The motion was approved.

IV. Summary of SCOH Ballots from November 2012 to May 2013 (information)
The Vice-Chair deferred this item.

V. Work Plans
Committee reports were provided and accepted under the consent agenda.

VI. Technical Services Program Reviews
Presentations were made for the LRFD and the Transportation System Preservation (TSP2) programs. Both programs were approved for continuation as presented. The LRFD motion was made by Indiana and seconded by Ohio; the TSP-2 motion was made by Texas and seconded by Minnesota.

VII. Motions
A. Proposed Policy Resolutions
The resolution titled “Support for Proposed Operations Center of Excellence” was discussed, which included a motion to amend by Utah, which was then withdrawn after clarification, and then approved through a motion from Arizona and seconded by Maryland.

The resolution titled “Proposed FCC Rule on 5.9 GHz Spectrum” was approved through a motion by Arizona and second by Alabama, and as amended, through a motion by Minnesota and a second by Arizona. The amendment, subject to final editing, added a “whereas” to explain the importance of the spectrum to the safety of the transportation network.

B. Administrative Resolutions
The resolution titled “Transportation Curriculum Coordination Council” was approved though a motion by Utah and a second by Florida.

VIII. Reports
Paul Degges and Chris Jenks, TRB, presented the status of NCHRP 20-7 efforts. The Committee met and selected the number one priorities presented by the subcommittees to move forward, representing $640,000 in funding of the available $1.4 Million. The balance of
funds will be carried over for future proposals. The motion was made by the Nebraska to accept, and seconded by Wyoming. The motion was approved.

Ken Sweeney reported on the Special Committee on U.S. Route Numbering. An extensive discussion developed, weighing alternatives to pursue with respect to a Texas proposal to add sections of I-69 as I-69E, I-69C, and I-69W. This convention is against AASHTO policy. A spur designation would normally be adopted, e.g. I-169, I-369, etc. After much debate and questions of FHWA and AASHTO leadership, it was determined that the Texas request should be approved conditionally, recognizing that the designation is contrary to AASHTO policy, but is congressionally mandated (which would take precedent). The motion was approved after a motion by Utah and second by Florida.

IX. Presentations

Bud Wright, the new Executive Director of AASHTO, provided an overview of the priorities for the coming year. He began by emphasizing that AASHTO is here to serve all of you. The AASHTO Strategic Plan will be updated this year; what services are of value to you? With respect to reauthorization, it will be important to show the benefits of MAP-21 and progress made. States already have success stories with respect to performance management, accelerating project delivery.

John Baxter provided the FHWA report, with mention of Every Day Counts, MAP-21, SHRP-2, and Buy America.

X. Updates

Updates were provided for the SCOR, SCOE, and SCOTSEM.

XI. Old Business

None.

XII. New Business

A. TRAC Awards

Students from Michigan and Louisiana participated in the TRAC bridge completion. Teams were recognized for their efforts, and the top teams announced. Mike Lewis, President of AASHTO, thanked everyone for their support of the program, and in particular the parents who supports these students.

XIII. Adjourn

The meeting was adjourned at 4:29 PM.

Respectfully Submitted by John Baxter, FHWA SCOH Secretary (retired)
## Standing Committee on Highways Ballot Summary

### November 2012 – October 2013

#### September 18, 2013

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<th>Due Date</th>
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<th>Ballot Number</th>
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<td>03/15/2013</td>
<td>04/15/2013</td>
<td>HW-13-04</td>
<td>Formal AASHTO Guide - NCHRP Report 668</td>
<td>Affirmative: 37 of 52 Negative: 3 of 52 No Vote: 13 of 52</td>
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<td>02/26/2013</td>
<td>03/14/2013</td>
<td>HW-13-02</td>
<td>Request for Comments Federal Docket ID: FHWA-2012-0118</td>
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<td>09/28/2012</td>
<td>02/05/2013</td>
<td>HW-12-09</td>
<td>SCOH Ballot of the AASHTO Guide on Cost Estimating</td>
<td>Affirmative: 40 of 52 Negative: 0 of 52 No Vote: 12 of 52</td>
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</tbody>
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HIGHWAYS SUBCOMMITTEE ON BRIDGES AND STRUCTURES (SCOBS)

Committee Officers:

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Vice Chair: Bruce Johnson (Oregon)
Secretary: M. Myint Lwin (FHWA)
Assistant Secretary: Raj Ailaney (FHWA)
AASHTO Liaison: Kelley Rehm

Summary of Activities and Accomplishments:

The 2013 Annual Meeting of the AASHTO Subcommittee on Bridges and Structures (SCOBS) was held in Portland, Oregon on June 16-20, 2013. There were over 450 registered attendees and 47 States participated in the meeting. During this meeting, the twenty (20) SCOBS Technical Committees met to conduct technical committee business. This was followed by a two-day general session meeting of the full Subcommittee to review modifications and additions to the design specifications and guide documents maintained by the Subcommittee and ballot on the necessary changes. The Subcommittee also hosted a Chairman’s lecture by Malcolm T. Kerley, Retired Chief Engineer, Virginia Department of Transportation and past Chair of SCOBS.

During the general session, members of the Subcommittee leaving the Subcommittee, either retiring or promoted, were recognized for their service. Also during the general session meeting, the full Subcommittee voted on 48 technical agenda items, of which 47 agenda items passed and one (agenda item #22) failed.

Following the I-35W Bridge collapse investigation, the National Transport Safety Board (NTSB) made five recommendations to the Federal Highway Administration and AASHTO. The final outstanding recommendation (H-08-23) from this accident was to update the “The Manual for Bridge Evaluation” (MBE) after the FHWA-AASHTO joint study on gusset plates became available. NCHRP Project 12-84 was initiated as a collaborative effort between AASHTO and FHWA, with FHWA being the principle investigator. Shears, tensile and compressive resistance of gusset plates at the strength limit state were evaluated. The project is now complete and it provided several recommendations to update the MBE. The Subcommittee voted and approved agenda item #41 (Revision 1) to make revisions to several articles of the MBE and the H-08-23 recommendation has now been satisfied.

In addition, as a result of a barge impact on I-40 Bridge in Oklahoma in 2004, NTSB recommended that AASHTO (H-04-31) provide guidance to the states on using an “Advanced Motorist Warning System” developed by FHWA. After a showcase meeting at South Padre Island, Texas on April 26, 2012, FHWA concluded that the “Advanced Motorist Warning System” installed at Queen Isabella Causeway with the sensor mechanism and integrated central control architecture is an operational and effective technology that is readily available for a state to design and install a system to meet their specifications. Florida and Louisiana are in the process of conducting a pilot project in their States.

On October 26th, 2011, Sika informed FHWA that their 300 PT grout produced from November 2002 until March 2010 at the Sika plant in Marion, Ohio, contained significantly varying levels of chloride. The ramifications have been studied, and a Task Force comprised of members from SCOBS and SCOM was formed to discuss the issue. It is anticipated that FHWA will issue a technical advisory this summer.

In 2011 AASHTO published the AASHTO Guide Manual for Bridge Element Inspection. This is a major improvement and replacement of the AASHTO Guide to Commonly Recognized Elements published in 1997. The Subcommittee updated this guide manual and voted (agenda item #48) to convert to an AASHTO manual. Now, with the inclusion of bridge element inspection on the National Highway System in the Moving Ahead for Progress in the 21st Century Act (MAP-21), this new manual will result in a better condition assessment that will allow local, State, and Federal agencies to more accurately report the condition of the bridge inventory in the United States.

Recommendations on the performance measures relating to the condition reporting of the nation’s highway bridges were provided to the Standing Committee on Performance Management. The Subcommittee recognized the need for individual state’s flexibility to report the condition of and set targets for their highway structures, and supported reporting the percent of deck area on structurally deficient bridges. However, the reporting should be expanded to
include the non-NHS bridges. An asset management approach is also necessary to represent program -level needs, and finally some changes in nomenclature, measures, and reporting might be needed in the future once the element level bridge inspections are implemented.

The Executive Committee held its annual meeting, which is comprised of the SCOBS officers and technical committee chairs and chaired by SCOBS Chair. The committee was formed to assist the SCOBS Officers in making business decisions, planning, and setting priorities, as well as to improve communications between the technical committee leadership and chairs and resolve issues of importance to SCOBS. The Committee discussed several issues including meeting format, prioritizing the publication of the specifications and other documents, and format and delivery of these to the users.

The Subcommittee continues to maintain and improve its Strategic Plan. A workshop was conducted March 19 and 20, 2013, in Washington, DC, to re-assess the plan that was originally developed in 2005. Participants included AASHTO State Bridge Engineers, FHWA, consultants, industry representatives and an educator. The workshop produced five focus areas: improve safety and mobility, implement asset management, foster innovation, evaluate impact on practice and performance and improve communication and collaboration.

SCOBS will continue to focus on the development and deployment of new technologies and materials and support implementation of SHRP2 technologies to better utilize investments in the nation’s bridges and other highway structures. High performance materials (including high performance steel, concrete, and fiber reinforced polymer composites), accelerated construction methods (using prefabricated bridge elements and systems), and rapid construction technologies that are among the innovative features which should be considered in bridge design and construction practices and specifications. SCOBS will also work to ensure the use of improved bridge inspection, evaluation, and management technologies for the existing inventory of bridges and other highway structures. Among these are improved technologies related to non-destructive evaluation and assessment of bridge components, and in data acquisition and management.

The next annual meeting will be held in Columbus, Ohio on June 22-27, 2014. Other future meetings of the Subcommittee have been scheduled in the following states: 2015 in New York; 2016 in Minnesota; 2017 in Washington; and 2018 in Vermont.

Schedule on New/Recent/Updated Publications

Below is a table showing the publication status as of August 5, 2013:

<table>
<thead>
<tr>
<th>Pub Code</th>
<th>Title</th>
<th>Current Status</th>
<th>Tech Review</th>
<th>To Press</th>
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<tr>
<td>GFRP-1-E1</td>
<td>AASHTO LRFD Bridge Design Guide Specifications for GFRP-Reinforced Concrete Bridge Decks and Traffic Railings, 1st Edition</td>
<td>Erratas Completed</td>
<td></td>
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<tr>
<td>DCRT-1-E1</td>
<td>Technical Manual for Design and construction of Road Tunnels – Civil Elements, 1st Edition Errata</td>
<td>Errata – to be completed</td>
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<td>LRFDMOV-2-E1</td>
<td>AASHTO LRFD Movable Highway Bridge Design Specifications, 2nd Edition Errata</td>
<td>Errata</td>
<td>Week of August 5th</td>
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<tr>
<td>MBE-1</td>
<td>AASHTO Manual for Bridge Element Inspection</td>
<td>New Edition</td>
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<tr>
<td>LRFDUS-7</td>
<td>AASHTO LRFD Bridge Design Specifications, 7th Edition</td>
<td>New Edition</td>
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<td>MBE-2-I2</td>
<td>2014 Interim Revisions to the Manual for Bridge Evaluation, 2nd Edition</td>
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<td>LRFDSEIS-2-I2</td>
<td>2014 Interim Revisions to AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2nd Edition</td>
<td>Interim</td>
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<td>LRFDCONS-3-I4</td>
<td>2013 Interim Revisions to AASHTO LRFD Bridge Construction Specifications, 3rd Edition</td>
<td>Interim</td>
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</table>
Highways Subcommittee on Construction (SCOC)

Committee Officers:
Chair: Mike Lewis, RIDOT
Vice Chair: David Hoyne, VAOT
Secretary: Butch Wlaschin, FHWA
AASHTO Liaison: Greta Smith, AASHTO

General

1. The annual meeting was held in Detroit, Michigan August 11 – August 16, 2012. There were 42 states represented and 1 Canadian province as well as AGC and ARTBA representation.
2. Topics included a key note address on connected vehicle technology and how the highway infrastructure can play a role, a host state presentation of the Zilwaukee Bridge repairs and how the Michigan DOT is using technology in Construction with their e-Construction initiative. Additional presentations included the subjects of performance measures for construction programs, implementation of SHRP2, CMGC guidelines and best practices, progress schedules for construction, work zone safety practices and leading in lean times. General discussions sessions included the Construction Peer Network, Buy America, MAP21, performance specifications, and the notice of proposed rulemaking relating to design build.
3. The SOC continues to participate in expert task groups, national task force, FHWA, AASHTO, industry and other joint committees.
4. In 2013 the SOC adopted a Strategic Plan that will guide the work of the committee moving forward.
5. Each of the Task Forces reported on their accomplishments of the past year and developed work plans for the coming year.

Contract Administration Section
Accomplishments

1. State Practices for the Administration of Progress Schedules: This is a carryover item from the 2011/2012 work plan and consists of a compilation of case studies from three states (VA, RI and NY) as well as industry comments on scheduling issues. The case studies have been compiled and are posted on the SOC website.
2. State DOT Internet Resources for the Oversight of Local Public Agencies: A survey was conducted to collect DOT online resources for the administration of local agency projects. The results are posted on the AASHTO SOC website and include a matrix with links to many DOT resources, including Policy Statements, LPA Program Administration Manuals, Design Manuals, Construction Manuals, LYAP Guidance Documents, Forms, and Materials Manuals.
3. Compile Alternative Contracting Web Pages and Best Practices: A survey was conducted to collect DOT resources for alternative contracting methods. The results have been posted on the AASHTO SOC website and include links to various online resources, including general guidance/policies for alternative contracting, resources, policies, procedures, and manuals, examples of solicitation documents, reports/“lessons learned”, quality assurance procedures, risk analysis, and contract administration procedures for various types of alternative contracting, including Design/Build, Public/Private Partnerships (P3), Construction Manager/General Contractor (CMGC), and other.
4. State DOT Approaches for Dealing with Unsatisfactory Contractor Performance – Time, Quality, and Safety: A survey was conducted to compile state practices for dealing with unsatisfactory performance. The survey results are posted on the AASHTO SOC website.
5. Dispute Review Board Best Practices: A brief survey was conducted to determine DOT practices for using dispute review boards for construction issue resolution. The results are posted on the AASHTO SOC website.

Computers and Technology Section
Accomplishments

1. Provided input to FHWA for development of training related to Civil Integrated Management (CIM) workshops in OR, NY, and FL.
2. Continued to provide leadership and guidance for development of the AASHTO web based Trns●Port software suite specifically the Civil Rights and Labor Module (CRL).
3. Posted to our section website the quick reference guide to assist states with automated machine guidance.
(AMG) preconstruction requirement, construction specifications, and data exchange protocol.
4. Supported implementation of SHRP2 deliverable products with focus on technology based equipment.
5. Shared best practices regarding work zone technologies through presentation at SOC meeting on work zone training, Roadway Safety+.

**Roadway & Structure Section**

**Accomplishments**

1. Reviewed the results of a survey on the use of IRI for acceptance on construction projects. The survey results and specifications provided by state DOT’s is available at the posted link provided by the CP Tech Center and placed on the SOC website.
2. The American Concrete Pipe Association presented guide specifications for drainage pipe inspection. The guide specification and presentation are available on the SOC website.
3. Completed a survey of state DOT’s regarding the current status of allowing regional certification for inspectors. The survey is available on the SOC website.
4. Discussed the status of Buy America and the changes which exempt some components from the requirements. Requested comments to the Federal Register regarding Buy America requirements for utilities.
5. Identified SHRP2 areas relevant to SOC Roadway and Structures Section.
6. Reviewed the use of positive barrier in Utah. The presentation is available on the SOC website.

**Environment and Human Resources Section**

**Accomplishments**

1. Completed a survey on sustainable construction. The survey is available on the SOC website.
2. Outreached to SCOE to identify opportunities for collaboration on areas of mutual interest, procedures, or research.
3. Completed a work force training survey, including the use of TC3.
4. Completed a survey on work zone safety practices.

**Research Steering Committee**

**Accomplishments**

1. One (1) of the research proposals submitted following the 2010 annual Subcommittee on Construction meeting is funded by NCHRP: NCHRP 10-91 “Assessing Highway Agency Readiness for Civil Integrated Management”.
2. Two new research problem statements were considered and approved for submission to NCHRP by the Subcommittee on Construction during the 2013 Annual meeting in Detroit.

   - Design-Build contract administration guidance.
   - Partnering – Quantifying the financial benefits of partnering on highway construction projects.
3. The team also voted to endorse the AASHTO Bridges and Structures proposal associated with erection procedures of girder and fit up of the cross frames on complex curved and skewed bridges. This support included a caveat that the research also identifies best practices for inspection of these members.
Committee Officers:
Chair Barry Schoch, Pennsylvania
Vice Chair Richard Land, California
Secretary TBD, FHWA
Liaison Greta Smith, AASHTO

Annual Meeting
The Subcommittee on Design (SCOD) held their annual meeting in Bozeman Montana, June 2 through 6, 2013.

Most of the publication development occurs in the Technical Committees under the Subcommittee. Below are brief reports on the 11 TC’s under SCOD.

All TC’s are involved in the following activities
- Regularly scheduled conference calls (Bi-monthly, Quarterly or Bi-yearly)
- Post both conference meeting and conference call notes on the TC website
- Majority of TC are utilizing SharePoint to conduct committee business.

TC on Cost Estimating
- Completed Tasks/Activities
  - 2013 Annual meeting: Oklahoma, OK
  - Published new Cost Estimated Guide.
  - New members: Region 3 – Christine Krall (Wisconsin)
- Future Events
  - 2014 Annual meeting: Burlington, VT
  - 2014 Annual Transportation Estimators Association workshop will be attended by many TCCE members
  - Researching options for Online Training for Cost Estimating (interactive)
  - Fill vacancies in Region 1 and Region 3
  - Working with FHWA on Cost Estimating National Review

TC on Environmental Design
- Future Events
  - 2013 Annual meeting November 5 through November 8

TC on Geometric Design
- Completed Tasks/Activities
  - 2013 Annual meeting: July 30 – August 1st, Irvine CA
- Future Events
  - Begin chapter review on Geometric Design Guide
  - 2014 Annual meeting to be held in Salt Lake City

JTC on Electronic Engineering Data
- Completed Tasks/Activities
  - Two teleconferences for planning and promoting peer exchange
  - Funding approved for a NCHRP project.
- Future Events
  - Build off NCHRP project
  - Meeting Planned for December 11, 2013.

TC on Non-Motorized Transportation
- Completed Tasks/Activities
  - Meeting held on June 4th in Bozeman, MT
  - Appointed new chair Scott Woodrum upon Erick Glick’s resignation. Appointed new vice-chair Tony Laird
- Current Events
  - Reviewed status of NCHRP projects: (17-56) Development of Crash Reduction Factors for Uncontrolled Pedestrian Crossing Treatments, (07-17) Methodology for evaluation of Pedestrian and Bicycle
Transportation needs along Existing Roads, and (08-78) Estimating Bicycling and Walking for Planning and Project Development

- **Future Events**
  - No planned meeting
  - Continue work on updating the Pedestrian Guide
  - Continue work on updating the Bicycle Guide

**TC on Preconstruction Engineering Management**

- **Completed Tasks/Activities**
  - Meeting held in conjunction of SCOD meeting in Portland Maine.

- **Future Events**
  - No meeting planned

**TC on Roadway Lighting**

- **Completed Tasks/Activities**
  - Quarterly Conference Calls
  - Continue work on revisions to the Roadway Lighting Guide

- **Future Events**
  - Review of completed NCHRP Study
  - Consider revisions to include LED lighting
  - Work towards finalizing Guide Revisions in 2014

**TC on Roadside Safety**

- **Completed Tasks/Activities**
  - Annual Meeting held in July 2013, in conjunction with the TRB Committee on Roadside Safety Design.
  - The Manual for Assessing Roadside Hardware will be updated to include crash testing of cable barrier systems on median and roadside slopes.
  - TCRS and FHWA discussed recommendations for devices that pass NCHRP 350 tests but not MASH. TCRS leadership, AASHTO staff, and FHWA are continuing this discussion to determine the best way to distribute these recommendations if approved by AASHTO.
  - TCRS developed five research problem statements, developed in cooperation with the TRB committee, for consideration for FY15 NCHRP funding. TCRS also submitted a problem statement for NCHRP 20-7 funding.
  - New Members: See attached 2011 Roster
  - Recent NCHRP Research Projects approved:
    1. NCHRP 15-53: Roadside Design for Conflicts in Proximity to Bridge Ends and Intersecting Roadways
    2. NCHRP 17-66: Evaluation of Opposite Direction Crashes and Appropriate Countermeasures
    3. NCHRP 22-30: In-Service Evaluation of End Terminals

- **Future Events**
  - Annual Meeting to be held July 2014.
  - TCRS will work with FHWA to determine how to distribute recommendations on devices that meet NCHRP 350 but not MASH.

**JTC on Pavements**

- **Completed Tasks/Activities**
  - Meeting held – in Oklahoma City, OK on April 30 and May 1, 2013
  - Approved a web version of the Pavement Handbook
  - New Chair: Judith Corley-Lay, North Carolina DOT
  - New Vice Chair: John Donahue, Missouri DOT

- **Future Events**
  - Next meeting: May 2014 in Georgia
  - Publish web version of the Pavement Handbook
  - Revise the MEPDG Manual of Practice
SCOH BUSINESS AGENDA
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JTC on Value Engineering
• Completed Tasks/Activities
  o 2013 AASHTO VE Peer Exchange Workshop July 9 through July 12, in Minneapolis, MN
  o Offering two classes at this year’s Peer Exchange, “Risk Based Cost Estimation” and “VE Innovative Practices”
  o Finalize development and implementation of our TC work plan
  o Conduct quarterly TC meetings via telecom and live-meeting
• Future Events
  o Here are some future events planned for our TC:
    • 2015 AASHTO VE Peer Exchange Workshop 2015 in Washington DC
    • Continue to stay actively involved in the proposed FHWA changes to the VE policy
    • Review and update the Guidelines for Value Engineering (dated March 2010)
      • Actively pursue research opportunities with NCHRP and TRB.
      • Continue outreach to educate all 50 states in Value Engineering
    • Conduct quarterly TC meetings via telecom and live-meeting

JTC on Hydrology and Hydraulics
• Completed Tasks/Activities
  • Model Drainage Manual, (MDM) previously published 2005. The AASHTO Drainage Manual has been updated to have two parts: policies and procedures and is being prepared for publication at the end of 2013.
  • Teleconference – March 11, 2013 – Discuss Concerns of the States
  • Teleconference – May 13, 2013 – Discuss SCOD comments on draft MDM
  • Teleconference – July 26, 2013 – Operating Guidelines, Fall meeting agenda
  • An in-person meeting held September 17 – 20, 2013
• Future Events
  Five work groups are established to work on:
  • Two work groups that will focus on Bridge and Water Quality chapters and develop drafts prior to the next annual meeting.
  • TCHH formulated a work group to develop a white paper reading its position on Climate Change related to water resources.
  • Exchange work group to develop exchange format and initiate implementation.
  • Work group to review the LRFD Bridge Design hydraulics sections for consistency with TCHH documents.
  • Research proposal identification and submittal to SCOD, Hydrolink Newsletter, Participate as TCHH representatives in AASHTO activities and NCHRP research, communicate and coordinate about developing issues, TRB AFB 60 research, and Federal Agency activities.
  • Provide explanation of Research Requests (full research, 20-5, & 20-7) TC wants SCOD support for, and show linkages to: Needs statements will be ranked by TCHH members and top selections will be sent to SCOD for consideration
  • Climate change and impacts on drainage systems – The TCHH continues to endorse prudent response to climate change issues. The major challenge is defining extreme events in terms of engineering standard and defining specific performance of hydraulic assets.

Future Events
The next meeting of SCOD is scheduled for Savannah Georgia, June 1 – 5, 2014
V. Activity Reports – 2013

Denver, Colorado - October 18, 2013

HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT (SCOHT)

Committee Officers:
Chair: Mark, Gottlieb, Wisconsin
Vice-Chair: Jeff Honefanger, Ohio
Secretary: Tom Kearney, FHWA
Liaison: Chris Smith, AASHTO

Activities from November 2012 to October 2013:

SCOHT Annual Meeting: Wilmington, North Carolina
The Subcommittee on Highway Transport met in Wilmington, North Carolina in July of this year. The meeting was hosted and organized by the North Carolina DOT. Participants were welcomed by Mark Gottlieb, Secretary of the Wisconsin DOT as Chair of the Subcommittee. The meeting had strong participation from the member states, the trucking industry, commercial vehicle service providers, and consultants and researchers. Total registration was over 100.

US DOT, Federal Motor Carrier Safety Administration (FMCSA) and the Federal Highway Administration (FHWA) provided briefings on Federal agency commercial vehicle activities and MAP 21. The agenda also included: regional permitting and harmonization of oversize/overweight requirements and progress on states adopting the resolutions, Bridges hits, ITS, and connected commercial vehicles. Utility coordination, National Truck Size & Weight Study, rail crossings, trucking parking, Emergency Response, and SC&RA priorities and perspectives on activities impacting their members was also presented.

The Subcommittee is considering by electronic ballot a successor resolution on Actions to Reduce Impediments to Interstate Commerce (approved Nov. 2012 in Pittsburgh): Phase II Harmonizing Requirements for Truck Permits, which will be considered by SCOH and the AASHTO Board of Directors at the 2013 Annual meeting in Denver.

The Subcommittee also coordinates among its members the issuance of oversize/overweight permits moving emergency commodities before, during and after national and state emergencies. Staff has revised the 2006 SCOHT Procedures for Emergency Responses to reflect updates in appropriate roles for AASHTO Staff, State DOTs and the USDOT during national emergencies.

Work Items
Items on the Subcommittee work plan include:
- Harmonization of oversize requirements.
- Coordinating permitting processes with local governments.
- Updating SCOHT’s Procedures for Emergency Response.
- Projects to develop a guide for states on assessing proposals for changes in truck size and weight standards and performance standards for commercial vehicles consistent with AASHTO highway design specifications.
- Formation of a state-industry group advisory group on the movement of super-loads and mega-loads.
- Expand the acceptance among states of standardized escort certification
- The development of a catalog of how the different states have organized the major commercial vehicle functions within DOTs and in other state departments and agencies.
- Bridge hits by commercial vehicles.
- Highway Freight representative on Special Committee on Intermodal Transportation and Economic Expansion (SCITEE) on implementation and reauthorization of freight provisions of MAP-21.
- Liaison with Subcommittee on Systems Operations and Management (SSOM) on establishment of its Center of Excellence

Surface Transportation Reauthorization
SCOHT in coordination with SCITEE anticipates forthcoming rulemaking and guidance from USDOT on the National Freight Network (NFN), Critical Rural Freight Corridors and will coordinate as appropriate on preparing comments to the Federal Register as needed.
SCOHT, via its FHWA liaison, continues to be engaged on the three MAP-21 studies related to trucking: the comprehensive truck size and weight study; compendium of state truck size and weight laws; and a report on truck parking adequacy.

**Future meetings:**
The 2014 Annual Meeting will be hosted by PennDOT. City and dates are still being finalized. SCOHT is generally held the week following the 4th of July holiday. Preceding the meeting several of the regional highway transport committees met as did the TRB Committees on Truck Size and Weight and Trucking Research.
HIGHWAYS SUBCOMMITTEE ON MAINTENANCE (SCOM)

Committee Officers:
Chair: Carlos Braceras, UT DOT
Vice Chair: Chris Christopher, WA DOT
Vice Chair: Jennifer Brandenburg, NC DOT
Secretary: Bryan Cawley, FHWA
AASHTO Liaison: Gummada Murthy, AASHTO

Subcommittee Organization:
The Subcommittee on Maintenance is organized into five Technical Work Groups (TWGs): Pavement, Bridge, Roadway/Roadside, Highway Safety and Reliability, and Equipment.

Summary of Key Activities and Accomplishments to date
- Developed and implemented performance measures that can be effectively utilized by member agencies to meet the requirements of MAP-21.
- Promoted the Transportation System Preservation Technical Services Program. (TSP²).
- Resolution 12-02 passed on the promotion of highway bridge management criteria that promote bridge preservation.
- Resolution 12-03 passed on Equipment Fleet Management Performance Measures.
- Resolution 12-04 passed on regarding alternating national and regional EMTSP Partnership Meetings.
- Promoted the Maintenance Leadership Academy to be held in Arizona 2013. Scheduling additional session in Texas.
- Promoted findings of NCHRP 636 & 685 regarding workforce attraction & retention.
- Supported the expansion of Regional Pavement Preservation Partnerships.
- Assisted with implementation and reviews of the 2008 Pavement Preservation Roadmap for the AASHTO TSP2 Program.
- Assisted with SHRP-2 R-23 and R-26 implementation useful to pavement preservation.
- Supported FHWA’s Long Term Bridge Performance Program (Bridge Preservation & Durability ETG) and Bridge Preservation ETG’s efforts.
- Two Bridge Research Need Statements were approved: “Identifying and addressing failures of small movement deck joints” and “Current practices, benefits, and environmental requirements for bridge cleaning/washing”.
- Completed research on current practices, benefits, and environmental requirements for bridge cleaning/washing – Phase I.
- Worked with TSP2, ETG, and industry on collection of maintenance training material and made available for practitioners.
- Hosted Roadway/Roadside technical communication events to develop ideas, plans, presentations, and problem statements.
- Organized the 2013 Winter Maintenance Peer Exchange & Website.
- Developed TC3 Job Hazard Analysis e-learning course.
- Supported SHRP2 implementation of L12 – Training Traffic Incident Responders.
- Implemented results of revised Chapter 8, NCHRP 25-25(04) on Winter Operations.
- Research Needs Statement on Work Zone Speed Limits and Crash Data Practices. approved in the last cycle (under 20-7)
- Updated EMTSP Strategic Plan, Website and developed “clearinghouse” for specifications etc.
- Developed and shared common performance measures for equipment fleet management through NCPP, and EMTSP regional partnerships for possible adoption.
- Supported the development and promotion of life cycle assessment methodologies for pavements.
- Developed guidelines to uniformly define the Remaining Service Life (RSL) of zero for pavement service life determinations.
Annual Meeting
The 2013 Subcommittee on Maintenance meeting was held jointly with the Subcommittee on Asset Management in Burlington, Vermont on July 21-25. Thirty-seven states were represented during the closing business session.

The next annual Subcommittee on Maintenance meeting will be held in Charleston, West Virginia in July, 2014.
Committee Officers:
Chair: Moe Jamshidi, NE
Vice Chair: Georgene Geary, GA
Secretary: Secretary: Jack Springer, FHWA
AASHTO Liaison: Greta Smith, Evan Rothblatt

Summary of Activities and Accomplishments from October 2012 to October 2013:

The SOM held its 99th Annual Meeting in Stateline, NV, on August 4 to August 8, 2013. 16 of the 21 Technical Sections; the Executive Committee and the AMRL Administrative Task Group (ATG) all met during the period. The other 5 Technical Sections met by Webinar prior to the meeting. The plenary sessions had a number of presentations that updated the SOM members on a variety of subjects.

There were a number of items discussed during the Executive Committee (EC) meeting. The SOM operations guide has been revised and the changes will be on the fall ballot. The changes include regarding categorization of standards to solely owned and jointly owned standards, inclusion of industry and academia as “friends” of the committees, and consolidation of technical sections (as was the case with TS 4f and 4g). An additional item proposed for inclusion to the guide was the creation of a Research Task Force. A separate Task Force was created to pursue the proposal of assigning states to technical sections; this insures regional representation and benefit new attendees’ understanding of the TS structure, providing quick transition into active participation.

In an effort to better help identify research needs, a Research Task Force was created. A volunteer research liaison was assigned to each tech section who will in turn report any research needs statements to the task force for further development and ranking. Roles and responsibilities for the Research liaisons are being developed.

There was a good deal of positive feedback regarding AASHTO’s support of the Tech Sections through mid-year webinars as well as on-site during the annual summer meeting. To continue scheduling the mid-year webinars, which help focus discussions and activities during the annual meeting, AASHTO was tasked with developing a webinar calendar. Further assistance to the Tech Section was proposed by having AASHTO prepare and automatically send out reconfirmation ballots.

Greta Smith discussed the signed MOA between AASHTO and ASTM. Georgene provided information about how to track ASTM standards.

As a follow up to the previous year’s discussion about accreditation bodies other than AMRL, presentations were made by each NACLA approved accreditation body to the SOM Executive Committee in May 2013. Based on their findings, the Executive Committee recommended a letter be sent to FHWA requesting greater oversight of the NACLA accreditation process. A copy of the letter is attached.

We discussed the 100th meeting of the SOM which will be hosted by the Minnesota DOT, as well as started preliminary discussion about the 101st meeting which will potentially be hosted by the Pennsylvania DOT.

This was Moe Jamshidi (NE DOT) and Georgene Geary’s (GA DOT) first year as Chair and Vice Chair respectively. Georgene will serve for one more year in this capacity thus a replacement will need to be found.

Representatives from 43 States plus NCHRP, academia and industry participated in the meeting. FHWA had limited participation at this year’s SOM meeting.

The 2013 SOM Service Award was presented to Moe Jamshidi (NE), Rick Harvey (WY), Milt Fletcher (SC), former Chair Grant Levi (ND), and former Vice-Chair Mark Felag (RI).

The 33rd Edition of AASHTO Materials, which includes all of the SOM’s standard tests and specifications, was published in a five-volume paper version in July.
The AMRL's laboratory inspection and proficiency sample programs continue to grow, as does the AASHTO Accreditation Program (AAP). As of July 2013, over 1700 labs held AASHTO accreditation. This is a 6% increase over the past year and a 31% increase over the last 5 years. The Proficiency Sample Program, now in its 47th year, serves over 3,000 testing laboratories in more than 30 countries. In addition to these long standing programs, AMRL now offers its Falling Weight Deflectometer (FWD) Calibration Center Operator Certification Program, with participation by 14 facilities in the United States, Canada, Mexico, The Netherlands, and Denmark.

The SOM continues to look at ways of taking advantage of developments in electronic information technology. Updates have been made to the e-ballot website and all technical sections now use the e-ballot system for tech section ballots. And as stated previously, tech sections hold mid-year meetings over the web.

There were no resolutions passed at this year’s meeting. A discussion was held at the executive committee meeting regarding the following proposal, which AASHTO is to discuss internally:

- Increase the state contribution for the DAMS program. In doing so, if standards are moved to online format state access to standards could be included in the dues.

Presentations of interest at the Plenary Sessions included a presentation on MAP 21 Rulemaking, TCCC Update, Recycled Materials Resource Center, Alternate Bidding of Drainage Pipe Systems, NCHRP and other groups. A copy of the agenda is attached.

**Names of Other Committees Involved or with an Interest in Each Activity:** Joint Technical Committee on Pavements, Subcommittee on Design, Subcommittee on Construction; Subcommittee on Maintenance

**Dates and Locations of Future Committee Meetings:** The 100th annual meeting of the SOM will be held July 27 to August 2, 2014, in Minneapolis, Minnesota. The proposed location of the 101st meeting of the SOM is to be held in Region I, potentially in Pittsburgh, PA, hosted by Pennsylvania DOT.
HIGHWAYS SUBCOMMITTEE ON RIGHT OF WAY, UTILITIES, AND OUTDOOR ADVERTISING CONTROL (SCORWUOAC)

Committee Officers:
Chair Matt DeLong, Michigan DOT
Vice-Chair, Right of Way Phil Copeland, Georgia DOT
Vice-Chair, Utility Nelson Smith, Maryland SHA
Vice-Chair, Outdoor Advertising Control Jim Spalla, Florida DOT
Secretary Nelson Castellanos, FHWA HQ, Washington, D.C.
FHWA Utility Liaison Ken Leuderalbert, FHWA HQ, Washington, D.C.
AASHTO Liaison Greta Smith, P.E., AASHTO, Washington, D.C.

2013 Spring Membership Meeting and Conference:
The Highway Subcommittee on Right of Way, Utilities, and Outdoor Advertising Control met in Savannah, Georgia on April 14 – April 18. The conference was co-located with the annual conference of the National Association of Highway Beautification Agencies (NAHBA). NAHBA focuses primarily on Outdoor Advertising Control issues. The theme for the 2013 conference was “Navigating to the Future – MAP 21 and Beyond.” In addition to the usual in-depth discussion on issues within each area of discipline, the Utilities area focused continued discussion and debate on Buy America, while the Right-of-Way and Outdoor Advertising Control areas focused on the impact of the provisions of MAP-21 specific to each of their disciplines.

Subcommittee Responsibilities:
The Subcommittee continued to reorganize in recognition of the addition of Outdoor Advertising Control responsibilities. The position of Vice-Chair for Outdoor Advertising Control was added to the Subcommittee leadership team with Jim Spalla, Director of the Office of Right-of-Way for the Florida DOT, being elected to the position.

Technical Councils:
Technical councils continue to be the focus of communication and issue development within each of the Subcommittee’s disciplines. Technical councils are chaired by a member of the committee and a new vice-chair position has been added to assist in the management of the council. The Utility Technical Councils have been reorganized to reflect current practices and issues. The previous four technical councils have been restructured into three new councils: Utility Mapping, GIS & SUE; Utility Project Scoping and Coordination; and Utility Accommodation and Scoping. No major changes were made to the Right of Way Technical Councils.

In recognition of our partnership activities with NAHBA and the new role of the Subcommittee, the Outdoor Advertising Technical Council has been reorganized with five Outdoor Advertising Regional Standing Committees assembled with the purpose of defining problems with, and suggesting solutions for, federal laws and regulations as written. The makeup of the regions is consistent with the AASHTO regional committee format; the only difference being that NAHBA has added a fifth Region (Mid-America). Currently, each board member of NAHBA has been assigned a region; however, the intent is to turn over chairmanship to a state within the region. The Chairman of the Technical Council for Outdoor Advertising Control of the Subcommittee will hold teleconferences with the standing committee chairmen throughout the year to identify policy issues to be discussed by the Subcommittee.

2013 NAHBA Awards of Excellence
NAHBA Awards of Excellence is an annual awards program developed by NAHBA to honor programs that excel in the outdoor advertising control program. The award recipients were honored at the NAHABA awards dinner during the co-located conference in Savannah, Georgia.

Chairmen's Award: Jessica Sawyer, Missouri DOT
The 2013 recipient of the Chairmen's Award is Jessica Sawyer of Missouri DOT for demonstrating strong leadership skills in meeting challenges of the OAC program through her dedicated work, commitment, and support of the NAHBA. Jessica was elected as Chairman of NAHBA in 2011 and served until 2012. She has been in OAC since 1997 as a permit specialist with the Southwest Missouri Department of Transportation and has helped draft outdoor advertising regulations, as well as having taught Outdoor Advertising Control classes to municipalities, industry and fellow DOT partners.

Streamlining and Integration Award: South Carolina Department of Transportation
The recipient of the 2013 Streamlining and Integration award is the South Carolina Department of Transportation's
Outdoor Advertising Permitting Web Application (Forms) Program for enhancing the permitting process for the agency's Outdoor Advertising Office. This initiative has brought together state of the art technology that enhanced the efficiency and consistency of the outdoor advertising program, thereby allowing for easy access of data, timely retrieval of information, and a system that puts the department on the cutting edge of billboard management. This process has significantly reduced cost and time associated with the permitting process for the applicant as well as the staff.

**Innovations Award: Texas Department of Transportation**

The recipient of the 2013 Innovations in Outdoor Advertising Award is Texas Department of Transportation's Highway Beautification Application Interface to Texas.gov (HBAIT). HBAIT's primary goal was to satisfy the State of Texas Sunset Advisory Committee's recommendation of allowing online payments for outdoor advertising license and permit renewal fees. States with limited resources can benefit from HBAIT because it will eliminate manual processing of payments and will decrease public inquiry calls freeing up resources for other outdoor advertising functions.

**Research Activities:**

The Subcommittee remains very active in national research through partnerships with FHWA and AASHTO. Examples of current programs include working with the National Highway institute on an entry level course for Right of Way Acquisition Agents, SHRP2 on the development and piloting of SHRP2 (R15) Identification of the Utility Conflicts and Solution, and with NCHRP on 20-7 (320) on Advanced GIS Visualization Techniques for Geospatial Business Intelligence and Information Integration. The Subcommittee has volunteers actively participating in these and many other studies and pilots.

**Future Meetings of the Highway Subcommittee on Right of Way, Utilities, and Outdoor Advertising Control:**

**Executive Board Business Meeting and Planning Session**

The Executive Board of the Highway Subcommittee on Right of Way, Utilities and Outdoor Advertising Control, and NAHBA will meet in January 2014 in Salt Lake City, Utah, to conduct mid-year subcommittee business, identify emerging issues, and coordinate with FHWA leadership on anticipated federal program changes. The planning session for the annual spring meeting of the full subcommittee is also conducted at this mid-year meeting of the Executive Board.

- **Dates:** January 07-09, 2014
- **Location:** Salt Lake City, Utah
- **Duration:** 2½ days
- **Frequency:** Subcommittee Executive Board meeting occurs annually

**Annual Subcommittee Meeting and Membership Conference**

The 2014 annual conference and meeting of the subcommittee membership and second annual co-located conference with NAHBA will be hosted by the Utah Department of Transportation in Salt Lake City this spring. This conference will be co-located with the annual conference of the NAHBA. The full membership of the subcommittee is composed of individual right of way, utility, and outdoor advertising control directors from each of the 50 states, Puerto Rico and the District of Columbia, as well as FHWA liaisons for both realty and utility program areas. Separate business meetings of the right of way and utility directors are incorporated into the conference schedule.

- **Dates:** April 26 – April 30, 2014
- **Location:** Salt Lake City, Utah
- **Duration:** 4½ days
- **Frequency:** The Highway Subcommittee on Right of Way, Utilities, and Outdoor Advertising Control meeting of the full membership occurs annually.

Please visit our website for additional information about the AASHTO Subcommittee on Right of Way, Utilities, and Outdoor Advertising Control.
HIGHWAYS SUBCOMMITTEE ON SYSTEMS OPERATIONS AND MANAGEMENT (SSOM)

Committee Officers
Chair: Don Hunt, Executive director, CODOT
Vice Chair: John Corbin, director of Operations, WisDOT
Secretary: Jeff Lindley, FHWA
Liaison: Gummada Murthy, AASHTO

Summary of Activities and Accomplishments to date

- After a 2 year gap the 2013 SSOM Annual Meeting was held during April 9-10, 2013 in Phoenix, Arizona. The meeting was well attended. 35 State DOT SSOM members attended the meeting.
- The Committee held several task force calls to develop work plans and as a follow up scheduled monthly task force conference calls to continue to implement the task force work plans. The Committee Leadership Team in collaboration with FHWA, TRB, ITE and ITSA partnerships participated on 20-7 NCHRP research project plan and completed revisions to the 2008 SSOM Strategic Plan by incorporating these SSOM Task Force work plans. Additional refinements and updates are underway through SSOM members review input. Highlights of the SSOM task forces Work Planned for Year 2013 – 2014 are:

Work Plan for Task Force 1 Systems Operation Strategies:
- Develop a Network of Peers and central repository of information in coordination with the Center of Excellence
- Survey Task Force for Snapshot/Scorecard for research and best practices
- Develop methods to share information based on topic – likely webinars or workshops/peer exchanges in conjunction with annual meetings.

Work Plan for Task Force 2 Systems Operation Performance Measures:
- Develop a process and protocol for consensus recommendations to SSOM, SCOH and FHWA on High Level National Operations Performance Measurement topics. This could include: a) appointment of a smaller working group to develop initial recommendation b) a standard process for sharing this initial recommendation and solicit input from the full task force.
- Develop a process to assist any state members in a new or specific working level Performance Measurement needs is generated at the task force level or any state level

Work Plan for Task Force 3 Transportation Systems Management and Operation CoE:
- Establish and complete TSM&O CoE Guide TSM&O CoE Business Plan development
- Advise SHRP 2 L17 Knowledge Transfer System Implementation Plan (Enhanced KTS) 5/2014
- Facilitate AASHTO approvals of NOCoE Business Plan
- Develop framework for SSOM Technical Services Program
- Committee is actively working with TRB staff and panel members on NCHRP Project 20-07, Task 298; SSOM LT worked with FHWA, ITSA, ITE and TRB partners as part of the NCHRP 20-7 Task 298 project and a business plan for National Operations Center of Excellence (NOCoE) is being completed.
- An all SSOM members’ webinar was held on September 20, 2013 where the key features of the revised 2013 SSOM Strategic plan and the NOCoE business plan were presented.
- AASHTO Staff through active SSOM LT participation and in collaboration with FHWA, ITE and ITSA developed and signed an MOU that paved foundation for the establishment of NOCoE. This is considered as a landmark achievement for AASHTO. The MOU was signed on August 30, 2013 and highlighted in AASHTO Journal, AASHTO TV and ITE, ITSA news releases.
- A SSOM SHRP 2 Reliability Special Task Force was also established that continues to provide the lead coordination with other SCOH Operations subcommittees (SCOM, SCOTE, SCOTSEM and SCOWCoT) and completed the balloting of SHRP2 Reliability Products and made recommendations to the AASHTO SHRP2 Implementation Task Force. SSOM SHRP2 reliability
Taskforce has coordinated with FHWA and TRB and conducted several implementation planning workshops for SHRP2 reliability products.
- SSOM also provided review support in developing the white paper on MAP21 Systems Operations performance measures.

- Committee continues to work closely with SCOTE, SCOTSEM, SCOM and ScOWT committees to address cross cutting issues that span the respective subcommittee work plans and strategize the upcoming key program issues including AASHTO SHRP 2 Reliability implementation activities and coordinated AASHTO efforts in response to MAP 21 requirements. To this effect, the SCOH Operations breakfast meetings have become a regular feature during AASHTO Spring and Annual events since the revitalization of the SSOM in 2012.
- Contracting has been completed to commence NCHRP Project 20-7(345), Planning for Transportation System Management and Operations. The project is to be completed in 2014, and will establish a basis for model strategic program plans for TSM&O similar to the Strategic Highway Safety Plan (SHSP) approach to state highway safety program administration.
- SSOM leadership has represented AASHTO in the formation of a Traffic Incident Management Executive Leadership Group (ELG) that also involves law enforcement, fire & rescue, and towing industry national organization executives. The TIM ELG will continue the implementation of the National Unified Goal for Traffic Incident Management developed through the National TIM Coalition and also being advanced through the TIM Network (www.timnetwork.org). AASHTO will be proposing to host a interdisciplinary TIM working group at the December ELG meeting, and will also be considering formation of a national TIM pooled fund study in partnership between FHWA, SSOM, and SCOTSEM.

Annual Meeting
The 2014 Subcommittee on System Operations and Management is tentatively planned to be held on May 4-6 in Nashville, Tennessee. TnDOT will be hosting the annual meeting.
HIGHWAYS SUBCOMMITTEE ON TRAFFIC ENGINEERING (SCOTE)

Committee Officers
Chair TBD
Vice Chair Mark Wilson, FL
Secretary Mark Kehrli, FHWA
Liaison Jameelah Hayes, AASHTO

Summary of Activities and Accomplishments to date

- Established a task force to review the ITS Warrants developed by ENTERPRISE Pooled Fund and provide comments so modifications can be made to best assist transportation professionals in their decision making.
- Submitted comments to the FHWA (Docket ID: FHWA-2102-0118) Request for Comments on the National Standards for Traffic Control Devices; the Manual on Uniform Traffic Control Devices for Streets and Highways.
- SCOTE members submitted papers in response to the TRB Call for Papers to identify innovative and unique ideas, concepts, and examples of a restructured Manual on Uniform Traffic Control Devices that is simpler to use.
- Completed NCHRP Synthesis 447 - Active Traffic Management for Arterials
- Completed NCHRP Report 746 - Traffic Enforcement Strategies for Work Zones
- Completed NCHRP Report 745 – Left-Turn Accommodations at Unsignalized Intersections
- Completed NCHRP Report 743- Predicting the Initial Retroreflectivity of Pavement Markings from Glass Bead Quality
- Completed review of the updated Draft AASHTO Lighting Guide.
- Developed and submitted the following problem statements to NCHRP:
  - U.S. Bicycle Route Guide Signing
  - Work Zone Speed Limits and Crash Data Practices
  - Update to the 2010 Highway Capacity Manual
- Polled SCOTE members on Panel Sign Overlays.
- Polled SCOTE members on Maintenance of Ancillary Signal Equipment: Survey of State Practices.
- Polled SCOTE members on Automated Flagger Assistance Devices.
- Polled SCOTE members on Edgeline Rumble Stripe.
- At the request of the National Transportation Operations Coalition (NTOC), SCOTE members provided comments on the Traffic Signal Operations Self-Assessment that was the basis for the Traffic Signals Report Card. This feedback was used to improve the Self-Assessment for agency transportation professionals in future years.
- Currently assessing and reviewing Control City requests from Hermiston, Oregon and Stamford, Connecticut.
- SCOTE Work Zone members are evaluating how States comply with ADA requirements in work zones.

Annual Meeting
The 2014 Subcommittee on Traffic Engineering will be meeting in Minneapolis, Minnesota in the summer of 2014.
NTPEP OVERSIGHT COMMITTEE (NTPEP)

Committee Officers:
Chair: Daniel Grasser (Wisconsin Administrator)
Vice Chair: Tom Baker (Washington State, Materials Engineer)
AASHTO Liaison: Katheryn Malusky, Associate Program Manager for NTPEP

NTPEP Executive Committee:
David Kuniega (Pennsylvania)
Derrick Castle (Kentucky)
Jerry Peterson (Texas)
Todd Bennett (Missouri)

Organizational and Administrative Framework

NTPEP is a pooled fund engineering technical service program which operates from AASHTO headquarters in Washington, DC. It is staffed by five manufacturing Auditors, one full time engineer, and one administrative assistant who are responsible for day-to-day operations, administration and coordination of the program. NTPEP coordinates testing for a wide array of highway safety devices, construction materials and maintenance products, as well as conducts audits for manufacturers of products used in highway applications. Whenever possible, cooperative agreements are entered into with Industry Associations who are experts in their respective industries. For each class of product category under NTPEP, a Technical Committee of state DOT and Industry membership convenes annually in person and quarterly on conference calls to discuss the status of the ongoing and pending evaluations.

Each NTPEP Technical Committee is composed of up to three members from each AASHTO member department as well as an industry member, who has expertise with utilizing the specific product(s) and thereby provide technical guidance. The Chairman and Vice Chairman of the NTPEP Committee are appointed by the AASHTO Executive Director. For administrative matters and industry appeals a NTPEP Executive Committee (EC), representing each of the AASHTO regions, is selected by the NTPEP Chairman.

The NTPEP Committee regularly communicates with the Federal Highway Administration (FHWA). FHWA technical subject experts participate in NTPEP technical committees.

Ongoing Activities and Projects:

The AASHTO Product Evaluation Listing data base was revised and relaunched in January 2013. The purpose was to allow new and/or proprietary product submittals for evaluation development and testing through independent laboratory contracts managed by AASHTO. Conversely, if an evaluation has been conducted by a member department the product certification can be requested for posting by the manufacturer. The website would then store the evaluation report or certificate for a period of up to 2 years. The emphasis and review by states has been slow, however renewed emphasis by our staff and additional outreach to our membership has the program moving in a positive direction.

NTPEP has coordinated major field demonstration projects and nationally-coordinated laboratory testing in the following product categories.

<table>
<thead>
<tr>
<th>#</th>
<th>Due</th>
<th>Lead State(s)</th>
<th>Description of Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>April 2014</td>
<td>Virginia, Louisiana, Minnesota, Arizona and Missouri</td>
<td>Coordinate fabrication and install test panels for 2011-2014 cycle of testing for sign sheeting materials. Field evaluation racks are at four locations nationally. Publish previous year’s data on DataMine.</td>
</tr>
<tr>
<td>4</td>
<td>April 2014</td>
<td>Louisiana, Minnesota, Arizona and Missouri</td>
<td>Coordinate, fabricate, and install 2014 “Roll Up Signing Materials” test deck at three field locations. Evaluate products and publish reports.</td>
</tr>
<tr>
<td>5</td>
<td>August 2014</td>
<td>Tennessee</td>
<td>Coordinate, install, and perform field evaluations of Temporary Traffic Control Devices and publish reports.</td>
</tr>
<tr>
<td>No.</td>
<td>Activity</td>
<td>Date(s)</td>
<td>Locations</td>
</tr>
<tr>
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<td>----------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>Install</td>
<td>May through June 2014</td>
<td>Pennsylvania, Florida, New York, Louisiana, Minnesota</td>
</tr>
<tr>
<td>7</td>
<td>Coordinate</td>
<td>September 2013</td>
<td>Georgia, Florida</td>
</tr>
<tr>
<td>8</td>
<td>Coordinate</td>
<td>September/October 2013</td>
<td>Ohio, Georgia, Florida</td>
</tr>
<tr>
<td>9</td>
<td>Install</td>
<td>October 2014</td>
<td>Ohio, Kansas, New York</td>
</tr>
<tr>
<td>10</td>
<td>Coordinate</td>
<td>January 2014</td>
<td>North Carolina</td>
</tr>
<tr>
<td>11</td>
<td>Quarterly Cycles</td>
<td>Wisconsin, Alabama, TRI Environmental</td>
<td>Quarterly solicitation and laboratory evaluation of Erosion Control Products. Post electronic test reports via NTPEP DataMine.</td>
</tr>
<tr>
<td>12</td>
<td>Continuous Program</td>
<td>TRI Environmental</td>
<td>Yearly on-site audit and laboratory evaluation of geotextiles. Post electronic test reports via NTPEP DataMine</td>
</tr>
<tr>
<td>14</td>
<td>Continuous Program</td>
<td>TRI/Environmental, Microbac, Kansas, Washington State, NTPEP Auditors</td>
<td>NTPEP Audit Program (NAP) is scheduled to conduct 45 audits for Plastic Pipe in calendar year 2014. Electronic reports are posted in DataMine.</td>
</tr>
<tr>
<td>15</td>
<td>Continuous Program</td>
<td>Texas, South Carolina, Illinois, NTPEP Auditors</td>
<td>NTPEP Audit Program (NAP) is scheduled to conduct 32 audits for Reinforcing Steel and 16 Welded Wire Reinforcement (WWR) audits in calendar year 2014. Electronic reports are posted through DataMine.</td>
</tr>
<tr>
<td>16</td>
<td>Continuous Program</td>
<td>Washington, TRI/Environmental</td>
<td>Coordinate, sample and test geosynthetic reinforcement materials. Reports are published in DataMine.</td>
</tr>
<tr>
<td>17</td>
<td>Continuous Program</td>
<td>TRI/Environmental, Missouri, Virginia, NTPEP Auditors</td>
<td>NTPEP Audit Program (NAP) is scheduled to conduct 7 audits for Polypolyene Pipe in calendar year 2014. Electronic reports are posted through DataMine.</td>
</tr>
<tr>
<td>18</td>
<td>Continuous Program</td>
<td>TRI/Environmental, Indiana, Illinois, NTPEP Auditors</td>
<td>NTPEP Audit Program (NAP) is scheduled to conduct 3 audits for PVC Pipe in calendar year 2014. Electronic reports are posted through DataMine.</td>
</tr>
<tr>
<td>19</td>
<td>Quarterly Cycles</td>
<td>Texas</td>
<td>Coordinate sampling and laboratory evaluation of Asphalt Release Agents. Reporting will follow for these products in DataMine.</td>
</tr>
<tr>
<td>20</td>
<td>Installation</td>
<td>August 2013</td>
<td>Kentucky</td>
</tr>
<tr>
<td></td>
<td>Continuous Program</td>
<td>Missouri, Minnesota, American Engineering Testing Services, TEC</td>
<td>Conduct laboratory evaluations of concrete admixtures. Once testing is completed, data will be available in DataMine.</td>
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<tr>
<td>21</td>
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<tr>
<td>22</td>
<td>March 2014, September 2014</td>
<td>Minnesota, Missouri</td>
<td>Conduct laboratory evaluations of concrete curing compounds. Once testing is completed, data will be available in DataMine.</td>
</tr>
<tr>
<td>23</td>
<td>September 2013</td>
<td>Florida</td>
<td>Conduct laboratory evaluations of epoxy and resin bonded adhesive systems. Once testing is completed, a PDF report will be issued on the NTPEP website.</td>
</tr>
<tr>
<td>24</td>
<td>May 2014</td>
<td>Minnesota, North Carolina</td>
<td>Minnesota performs the laboratory evaluations for joint sealants. North Carolina performs the field evaluations with a 3 year interval.</td>
</tr>
<tr>
<td>25</td>
<td>May 2014</td>
<td>Vermont, Minnesota</td>
<td>Minnesota performs the laboratory evaluations for crack sealers. Vermont performs the field evaluations with a 3 year interval.</td>
</tr>
<tr>
<td>26</td>
<td>Continuous Program</td>
<td>Kansas, Ohio, Nelson Laboratories</td>
<td>Rapid Set Concrete Patch Materials are evaluated for a 3 year interval. Nelson Laboratories performs the laboratory evaluations, while Ohio performs the field evaluations.</td>
</tr>
</tbody>
</table>

**Ongoing Activities supporting NTPEP expansion and promotion:**
NTPEP staff continues the expansion and maintenance of the committee website and the online reporting through DataMine, [http://www.ntpep.org](http://www.ntpep.org). The program’s success is largely due to public-private partnerships. Therefore presentations are made at various regional and national conferences and liaison reports are provided to other AASHTO committees.

**Goals for Next 3 Years:**

- Continue the use of additional collaborative online communication for committee correspondence.
- Establish a greater presence in the AASHTO community.
- NTPEP Audit Programs for Guardrail and Elastomeric Bridge Bearing Pads will begin in January 2015.
- A task force will be working with AASHTO and an IT contractor to begin designing/developing the next version of DataMine.
- A NTPEP business plan will be available to all AASHTO members at the 2014 Annual NTPEP meeting. The document will inform members the direction NTPEP is heading within the next 5 years.

**Upcoming Meetings:**

NTPEP 2014 annual meeting of the NTPEP Committee
- Dates: May 18 through May 22, 2014
- Location: Greenville, South Carolina
SCOH BUSINESS AGENDA
V. Activity Reports – 2013
Denver, Colorado - October 18, 2013

SPECIAL COMMITTEE ON WIRELESS COMMUNICATIONS TECHNOLOGIES (SCOWCT)

Committee Officers:
Chair: William A. Brown (Virginia)
Vice Chair: David S. Chase (New Hampshire)
Secretary: William Brownlow (AASHTO)
AASHTO Liaison: William Brownlow (AASHTO)
U.S. DOT Liaison: James Arnold

Annual Meeting
The 2013 Annual Wireless Workshop and SCOWCoT Meeting was held concurrently with the 2013 Transportation Hazards and Security Summit and Peer Exchange, August 18-23, 2013, at UC Irvine, California. Radio and Wireless Communications managers totaling some 25 attendees from 19 different states were present, representing the largest turnout in about ten years. Some states sent representatives for the first time, or in recent memory, including New Jersey, Nevada, and Idaho. This is due to the second consecutive year of funding by the NAS and the aggressive phone and mail outreach by Committee leadership the last two years to state communications managers and to agency executives. The radio and wireless attendees participated in the TSA I-STEP table top exercise on Monday, and in joint session with the Subcommittee on Transportation Security and Emergency Management (SCOTSEM) on Tuesday afternoon. There was a very robust Wireless Workshop consisting of 16 presentations on technical and regulatory topics over two and a half days, followed by eight hours of training on the radio engineering software Radio Compass. Speakers were from various states and several outside agencies, including Chiefs Harlin McEwen and Barry Luke of the National Public Safety Telecommunications Council. Other topics included the use of Radio Over IP, an in depth description of the technology behind Long Term Evolution (LTE) which is the designated technology to be used in the National Public Safety Broadband Network, and an update on major national issues affecting transportation agencies. The most memorable presentation may have been by Mr. Ocie Adams of the Alaska DOT & PF, who used multimedia to describe and show the unique engineering challenges in providing wireless communications networks across Alaska. Other guest speakers included Mr. Barry Einsig, representing the Transit Wireless Communications Council, and Mr. Tom Tracey representing the Orange County (CA) Radio Amateur Civil Emergency Service. All the guest speakers remarked about the depth and technical knowledge of the questions posed by the states’ attendees.

The Committee voted to support a petition of the Washington Metro Area Transit Authority to the FCC to release reserve 700 MHz frequencies for an improved communications system. The Committee also began the nomination process for the Chair position of the Committee, to be completed via telephone and electronically.

Completed Tasks or Activities
The Committee drafted a Strategic Plan and appointed a working group to be headed by Committee Vice Chair David Chase to complete the Plan.

The Wireless Committee continued to represent transportation at a national level throughout the year. Ferdinand Milanes of CalTrans is a representative on a Homeland Security Interoperability Working Group, and Paul Gilbert of Texas continues to serve as a member on the Project 25/34 Steering Committee. The Project 25/34 Joint Committee oversees the development of standards for public safety digital radios.

The Wireless Committee and AASHTO Liaison Bill Brownlow prepared and submitted comments on numerous FCC proposals and actions every month throughout the year, aggressively providing representation of the best interests of the transportation community. Mr. Brownlow will also be attending AASHTO Conferences as well as frequent meetings on a national level regarding public safety communications.

Mr. Brownlow, Mr. Gilbert (TX), Mr. Milanes (CA), Mr. Carbonell (CT), and Mr. Brown (VA) represented AASHTO by manning a booth at the 2013 International Wireless Communications Exposition (IWCE), again achieving more national recognition for AASHTO and member organizations. IWCE is the largest annual event worldwide that specializes in public safety communications, with over 325 vendors and booths and 2,000 attendees from government and business.

Future Events
The time and location for the 2014 Wireless Workshop has yet to be determined.
AASHTO SUBCOMMITTEE ON ASSET MANAGEMENT (SCOAM)

Committee Officers:
Chair        Ananth Prasad, Florida DOT
Vice Chair   Tim Henkel, Minnesota DOT
Secretary    Julius "Butch" Wlaschin, FHWA
Liaison      Matthew Hardy, AASHTO

Annual Meeting
The annual meeting of the Subcommittee on Asset Management was held on July 24, 2013 in Burlington, VT. This meeting took place in conjunction with the Subcommittee on Maintenance Annual Meeting and also included a Peer Exchange on Implementing Transportation Asset Management. Highlights of the annual meeting include the following:

- TAM Peer Exchange—A detailed summary of the two-part peer exchange is available in a separate report.
  - Part I: Integrating Asset Management into Maintenance—Brought together people from across the U.S. to discuss how State DOTs are integrating the maintenance functions with the asset management responsibilities.
  - Part II: TAMP Requirements in MAP-21—More than 30 State DOTs participated in round table discussions discussing the implementation of the TAMP requirements in MAP-21.
- Capacity Building Activity—The subcommittee will propose a capacity building peer exchange to be funded through the SCOP Subcommittee on Capacity Building program that will take place as part of the 10th National Transportation Asset Management Conference scheduled for April 2014 in Miami, FL. The focus will be on TAM and MAP-21.
- Research Activities—The research activities of the subcommittee are coordinated by Cory Pope, Utah DOT. Three research activities have been approved through various research funding sources to be moved forward as follows:
  - NCHRP 08-36, Task 125 Transportation Asset Management Portal
  - NCHRP 08-36, Task 126 Development of a Risk Register Spreadsheet Tool
  - NCHRP 08-93, Guidebook on Agency Risk Management Strategies, Methods, and Tools
- The Subcommittee will propose three new NHCRP projects for FY2014 funding:
  - Procedures for Integrating Standard Quality and Performance Management Frameworks with Transportation Asset Management
  - Life cycle cost analysis of preservation and replacement of highway assets
- The subcommittee will be working closely with FHWA in organizing a series of webinars related to TAM to complement the AASHTO Transportation Asset Management Guide: A Focus on Implementation webinar series.
- The Subcommittee will continue to work with FHWA on continuing the Transportation Asset Management Expert Task Group.
- The Subcommittee continue to work with TRB in organizing the 10th National Transportation Asset Management Conference.

Completed Tasks or Activities
The Subcommittee on Asset Management had a successful year. The following summarizes key deliverables of the subcommittee:

- Co-sponsored and organized the joint Subcommittee on Maintenance/Subcommittee on Asset Management conference.
- Worked with FHWA in hosting the bi-monthly asset management webinar series with over 500 people participating in each webinar.
- Peer Exchange TAM—The subcommittee sponsored a peer exchange that focused on TAM integrating with maintenance and the TAMP requirements of MAP-21. This peer exchange was in keeping with the strategic plan of the subcommittee to look beyond pavements and bridges.
- Three research projects were funded as described above.
- TRB Asset Management Committee—The subcommittee continues to work closely with the TRB Asset Management Committee.
• FHWA TAM ETG—The subcommittee continues to work closely with the FHWA Transportation Asset Management Expert Task Group.

Future Events
The Subcommittee on Asset Management has proposed the following future events:

- **FHWA/AASHTO TAM Webinar Series**—Working with FHWA in organizing a series of webinars over the next 2 years that will present different TAM topics. More information is available at tam.transportation.org.
- **2014 TRB Annual Meeting**—The subcommittee will host a smaller mid-year meeting as part of the 2014 TRB Annual Meeting in conjunction with the TRB Asset Management Committee meeting.
- **10th National Conference on Transportation Asset Management**—The subcommittee is involved through different members in the development and organization of this large conference. AASHTO is a co-sponsor.
- **Summer 2014 Peer Exchange**—The subcommittee is proposing a peer exchange workshop as part of the Standing Committee on Planning Capacity Building program. The peer exchange will take place as part of the 10th National Conference on TAM.
- **2014 Annual Meeting**—In conjunction with the peer exchange mentioned previously, the subcommittee will have an annual meeting.
- **Revised NHI Course on Transportation Asset Management**—The subcommittee will work with FHWA and NHI in revising the existing Transportation Asset Management to better incorporate the research from the *AASHTO Transportation Asset Management Guide: A Focus on Implementation*. 