SCOH TECHNICAL MEETING

Part I—Thursday, November 15; 1:00 PM–5:00 PM
Part II—Friday, November 16; 8:00 AM–12:00 PM

SCOH BUSINESS MEETING

Friday, November 16; 1:00 PM–4:30 PM

David L. Lawrence Convention Center, Pittsburgh, PA
1:00 PM  
I. CALL TO ORDER...........................................................................................................Vice-Chair Paul Degges, TN  
II. INTRODUCTIONS – OPENING REMARKS............................................................................................................. P. Degges  

1:15 PM – 3:00 PM  
III. SCOH SUBCOMMITTEE REPORTS (1.5 HOURS)  
A. REPORTS (5 MINUTES EACH)  
1. Bridges and Structures ........................................................................................................... Mal Kerley, VA  
2. Construction ....................................................................................................................... Michael Lewis, RI  
3. Design ................................................................................................................................. Barry Schoch, PA  
4. Highway Transport .............................................................................................................. Mark Gottlieb, WI  
   a. Proposed Resolution: Actions to Reduce Impediments to Interstate Commerce; Harmonizing Requirements for Truck Permits  
5. Maintenance ................................................................................................................... Carlos Braceras, UT  
   a. Proposed Resolution: Promotion of Highway Bridge Measurement Criteria that Promotes Bridge Preservation  
   c. Proposed Resolution: Establish a Schedule for Alternating Biennial Regional and National AASHTO EMTSP Partnership Meetings  
   d. Proposed Resolution: Express the AASHTO Subcommittee on Maintenance’s Support for the FHWA Pavement Preservation Expert Task Group and Requesting Semi-Annual Meetings for the Group  
6. Materials ................................................................................................................................. Grant Levi, ND  
   a. Proposed Resolution: Institute the Use of AASHTO Standards  
   b. Proposed Amendment to the Governing Documents: Inclusion of External Stakeholders as Non-Voting Members of the Subcommittee on Materials  
7. Right-of-Way, Utilities, and Outdoor Advertising Control ........................................ Matthew W. DeLong, MI  
8. Systems Operations and Management ............................................................................. Don Hunt, CO  
9. Traffic Engineering .............................................................................................................. Bernie Arseneau, MN  
   a. Oversee Development of a Standard for Intersection Conflict Warning Systems  
   b. Traffic Engineering/Geometric Design Effort to Improve Overall Highway Operations and Safety  
10. Asset Management ............................................................................................................. Ananth Prasad, FL  

3:00 PM – 3:15 PM BREAK  
3:15 PM – 4:00 PM  
IV. ROUND TABLE TOPICS  
A. TOPICS ................................................................................................................................. P. Degges, TN  

4:00 PM – 5:00 PM  
   Workshop – Approaches to Assessing Proposed Changes in Truck Size and Weight Laws  
   Moderator: P. Degges, TN  
   Panel: Dan Grasser, WI, Ken Sweeney, ME, and Jeff Honefanger, OH  

ADJOURN PART I OF SCOH TECHNICAL MEETING  
RECONVENE AT 8:00 AM FRIDAY, NOVEMBER 16, 2012
FRIDAY, NOVEMBER 16, 2012

8:00 AM
RECONVENE SCOH TECHNICAL MEETING

8:00 AM – 9:30 AM

V. SCOH STRATEGIC PLAN LIAISON REPORTS (1.5 HOURS)

A. REPORT (5 MINUTES EACH)

1. Freight .......................................................................................................................................................... ///
2. Cutting Fatalities by Half by 2030 ................................................................................................................. Tom Cole, ID
3. Congestion ...................................................................................................................................................... ///
4. Climate Change ............................................................................................................................................... Rick Land, CA
5. Performance Management ............................................................................................................................. Jerry Younger, KS
6. Communicating the Value of Transportation ................................................................................................ ///
7. Research and Emerging Technology ............................................................................................................. Ken Sweeney, ME
8. Workforce Planning and Development .......................................................................................................... ///
9. System Preservation ........................................................................................................................................ John Barton, TX
10. Project Delivery ............................................................................................................................................ Terry Gibson, TX

VII. “HOT TOPIC” DISCUSSION (Facilitated by Vice-Chair Degges, TN)

A. Potential topic: Privatization, Outsourcing, and Public-Private Partnerships

1. Has your state recently privatized any non-traditional functions within their State DOTs? What has been your experience? What would you have done differently, if anything?
2. Has your state recently analyzed the potential cost effectiveness of increasing and/or reducing outsourcing? Has your state recently made changes to your outsourcing policy to increase/decrease outsourcing? Have any non-traditional aspects of the DOT’s work been outsourced?
3. Has your state established any public-private partnerships – large or small – in the past year? 5 years? What has worked (or not worked) well?

10:00 AM – 10:15 AM Break

10:15 AM

XII. PRESENTATIONS

A. MAP-21

1. Engineering – Related Issues in MAP-21 ................................................................................................. David Nicol, FHWA
2. MAP-21 Updates from AASHTO Working Groups ................................................................................ P. Degges, TN

B. SHRP2 Traffic Incident Response Training ............................................................................................. Jeff Lindley, FHWA, and Jennifer Toth, AZ

C. An Introduction to AASHTO Communications ................................................................................... Lloyd Brown and Tony Dorsey, AASHTO

D. Agency Risk Management for Projects, Programs and Policies .......................................................... Phil Symons of VicRoads, Australia

E. Managing Pavements, Monitoring Performance International Technology Scan ......................... Butch Wlaschin, FHWA

XIII. ROUND TABLE TOPICS

A. Topics ......................................................................................................................................................... P. Degges, TN

12:00 Noon ADJOURN
**Standing Committee on Highways**  
**Annual Meeting 2012**  
**Suggested Round Table Topics**

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  - Update on/from MAP 21 Working Groups                                  |
| Maine      |  
  - Will we need to revisit our SCOH strategic plan in response to MAP-21 Initiatives? Also it may be time to update the SCOH organizational chart |
| Ohio       |  
  - MAP21                                                                 |
| Arizona    |  
  - Select an EDC 2 Initiative and present on it - perhaps one that many of the states haven't implemented yet |
| Rhode Island |  
  - Every Day Counts (EDC)                                              |
| Maine      |  
  - There appears to be conflicting/confusing information available concerning ADA requirements. What have other States experiencing and what committee has the lead role? |
| Pennsylvania |  
  - A Disability Act and the impact States have seen to their paving program. |
| Ohio       |  
  - PPP projects throughout states  
  - Downsizing DOTs  
  - Privatization |
| Washington |  
  - Contracting out (maintenance/operations) and privatization |
| Rhode Island |  
  - Transportation Funding  
  - Towards Zero Deaths (TZD)  
  - Streamlining the environmental process |
| Wisconsin  |  
  - Would like to hear about the status of SCOH recommendations on standardized performance measures. |
STANDING COMMITTEE ON HIGHWAYS (SCOH)

PRELIMINARY AGENDA

BUSINESS MEETING
Pittsburgh, Pennsylvania
Friday, November 16, 2012  1:00 PM – 4:30 PM
Conference Call Number: 1-866-299-7945 and Passcode: 4370119#

I. Call to Order and Opening Remarks ............................................................... Chair Paula Hammond, WA

II. Roll Call and Minutes from Traverse City, Michigan, May 19, 2012 .......... Secretary John Baxter, FHWA

III. Call for Agenda Amendments ................................................................................... Chair Hammond, WA

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 items 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 May 2012 to November 2012 (information) .... Chair Hammond, WA

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

A. Subcommittee
   1. Bridges and Structures ........................................................................................ Mal Kerley, VA
   2. Construction ........................................................................................................... Michael P. Lewis, RI
   3. Design ................................................................................................................... Barry Schoch, PA
   4. Highway Transport ............................................................................................... Mark Gottlieb, WI
   5. Maintenance ......................................................................................................... Carlos Braceras, UT
   6. Materials .............................................................................................................. Grant Levi, ND
   7. Right-of-Way and Utilities ................................................................................... Matthew W. DeLong, MI
   8. Systems Operation and Management ...................................................................... Don Hunt, CO
   9. Traffic Engineering ............................................................................................. Bernie Arseneau, MN

B. Joint Committee
   1. SCOP-Asset Management (SCOP/SCOH) ................................................................. Ananth Prasad, FL

C. Special Committee
   1. NTPEP Oversight Committee ............................................................................... Dan Grasser, WI
   2. Special Committee on Wireless Technology ........................................................... William A. Brown, VA

VI. Motions — PROPOSED RESOLUTIONS

A. PROPOSED ADMINISTRATIVE RESOLUTIONS

B. PROPOSED POLICY RESOLUTIONS

1. Actions to Reduce Impediments to Interstate Commerce; Harmonizing Requirements for Truck Permits ....................................................... Mark Gottlieb, WI

2. Promotion of Highway Bridge Measurement Criteria that Promotes Bridge Preservation ................................................................. Carlos Braceras, UT


4. Establish a Schedule for Alternating Biennial Regional and National AASHTO EMTSP Partnership Meetings ................................................................. Carlos Braceras, UT

5. Express the AASHTO Subcommittee on Maintenance’s Support for the FHWA Pavement Preservation Expert Task Group and Requesting Semi-Annual Meetings for the Group ......................................................................................... Carlos Braceras, UT

6. Institute the Use of AASHTO Standards ................................................................ Grant Levi, ND

C. PROPOSED AMENDMENTS TO THE AASHTO GOVERNING DOCUMENTS
1. Inclusion of External Stakeholders as Non-Voting Members of the Subcommittee on Materials

.................................................................................................................................. Grant Levi, ND

VII. Reports

A. NCHRP 20-7, Research for the AASHTO Standing Committee on Highways (SCOH) ............................................. Paul Degges, TN, and Chris Jenks, TRB

B. Special Committee on U.S. Route Numbering (action) ........................................ Ken Sweeney, ME

C. Technology Implementation Group (TIG) (action) ........................................ Ken Sweeney, ME

D. AASHTO/ACEC Joint Committee (action) ............................................................... Paul Mattox, WV

E. SHRP2 Implementation ........................................................................................ Pam Hutton, AASHTO

VIII. Presentations

A. Executive Director’s Report and Update on Reauthorization ......................... John Horsley, AASHTO

B. AASHTOWare Rebranding .................................................................................... Mike Bousliman, MT

C. AMRL Update ........................................................................................................ Steve Lenker, AMRL

D. FHWA Activities .................................................................................................... John Baxter, FHWA

E. Transportation Association Canada, Chief Engineers’ Council Update ............ Greg Johnson, MI

F. PIARC Update – U.S. National Committee ......................................................... Tony Kane, AASHTO

G. Standing Committee on Research (SCOR) Update ............................................. John Halikowski, AZ

H. Special Committee on Transportation Security and Emergency Management .......... Brian Ness, ID

I. Special Committee on Wireless Technology and Communication .................... Bill Brown, VA

IX. Old Business ......................................................................................................... Chair Hammond, WA

A. TRAC and RIDES Update ..................................................................................... Randy Beatty, MS, and Warren Whitlock, FHWA

X. New Business ........................................................................................................... Chair Hammond, WA

A. Transportation Curriculum Coordination Council Update ................................. Mark Chaput, MI

XI. Adjourn
I. Call to Order

The Standing Committee on Highways spring meeting convened at 8:34 AM. Vice-Chair Paul Degges called the meeting to order. The meeting consisted of a quorum of 38 representatives, 3 calling in remotely.

II. Roll Call and Minutes from Previous Meeting

Vice-Chair Degges called for a motion to approve the minutes from the October 15, 2011, Detroit meeting. Virginia made the motion; Georgia seconded. The motion was approved.

III. Call for Agenda Amendments

Jim McDonnell noted that there would be no joint AASHTO/ACEC Joint Committee meeting and report out, given the recent disagreement over legislative proposals being pursued by ACEC. A motion was made to accept the Consent Agenda. Missouri made the motion; Alabama seconded. The motion was approved.

IV. Summary of SCOH Ballots

A summary of SCOH Ballots from October 2011 to May 2012 was provided to the members as a handout for their information.

V. Work Plans

Committee work plans were provided by all SCOH subcommittees, task forces and special committee and were accepted as presented under the consent agenda.

VI. Technical Services Program Reviews (action to continue programs)

Vice-Chairman Degges noted that the purpose of these reviews was to look at the efforts ongoing and to evaluate periodically.

- National Transportation Product Evaluation Program (NTPEP), Dan Grasser, WI
- Technology Implementation Group (TIG), Ken Sweeney, ME
- Snow and Ice Cooperative Program (SICOP), Rick Nelson, NV

Vice-Chair Degges called for a motion to continue these programs for a three-year period. Texas made the motion; Michigan seconded. The motion was approved.

VII. Motions — PROPOSED POLICY RESOLUTIONS (PPR) AND PROPOSED ADMINISTRATIVE RESOLUTIONS (PAR)

Proposed Administrative Resolutions

PAR12-01: NTPEP Adjustment to Voluntary Contribution from AASHTO Member Departments

Presented by Dan Grasser, WI. This adjustment raises the NTPEP member contribution from $7,500 to $12,000. Texas made a motion to approve, Illinois seconded. The motion was approved.
PAR12-02: Request to Expedite the Review of Buy America Requirements Related to Utility Work on Federal-aid Projects

Presented by Mal Kerley, VA. This resolution requests FHWA to expedite their review of the issue of third party utility relocations as related to Buy America provisions. The Resolution was amended to delete the seventh Whereas, “Third party utilities are not integral to transportation projects.”

Virginia made the motion to approve, and was seconded by Wisconsin. The motion was approved.

Proposed Amendment to the AASHTO Governing Documents

PAGD12-01: Modification to Charge Statement for the Subcommittee on Right of Way and Utilities

Presented by Matthew W. DeLong, MI. This proposed amendment to the AASHTO governing documents adds language to include Outdoor Advertising in the name of the Committee and to the charge of the Committee. The new Committee name would be the Highways Subcommittee on Right of Way, Utilities, and Outdoor Advertising Control.

A motion to approve was made by Missouri and seconded by Mississippi. The motion was approved.

VIII. Reports

A report from the NCHRP 20-7 panel was presented by Paul Degges, TN, and Chris Jenks, TRB. The report was accepted by SCOH, approving $600,000 of initiatives—the top priority from each subcommittee, the top two priorities for the maintenance subcommittee, and the top three priorities for the bridges and structures subcommittee. North Dakota made the motion to approve; Michigan seconded. The motion was approved.

A report from the Special Committee on U.S. Route Numbering was presented by Ken Sweeney, ME. The actions taken by the Special Committee were approved by SCOH. Maine made the motion to approve and Mississippi seconded the motion.

Technology Implementation Group (TIG). The TIG was scheduled to meet in the afternoon; therefore, no report out was provided.

Ann Brach and Neil Pedersen presented SHRP2 efforts. Neil recognized the recent loss of Jim McMinimee, and his significant contributions to our industry, and most recently to the SHRP2 initiative. Neil noted that the SHRP2 initiatives have been organized around a three-year plan, with a “tipping point” philosophy being applied to the demonstration phase. AASHTO asked states to begin thinking about where they can serve as demonstrations for these important technologies and innovations.

Jeff Lindley, FHWA Operations, presented a summary of the Connected Vehicle program. His message was to “stay in the game” with respect to these technologies. A demonstration was available at the meeting, as well as a field demonstration of vehicle-to-vehicle technology.

IX. Presentations

AASHTO Executive Director’s Report

John Horsley began by thanking AASHTO staff for all of the hard work throughout the year, and in preparation for these meetings. He noted the importance of the SHRP2 plan, for the expenditure of approximately $81 million.

He provided an update on the House/Senate Conference efforts, and the importance of passing a bill to sustain funding and advance reforms to the program. He noted the importance of 90% of the funds being distributed by formula, and provisions such as streamlining, performance management, TIFIA, etc.

FHWA Activities

John Baxter reported on recent FHWA activities. He noted that FHWA has created a new Center for Accelerating Innovation, led by Hari Kalla, and reporting to the Office of the Administrator. This is significant as it underscores the
importance of innovation as a strategic business practice. Every Day Counts and Highways for LIFE efforts will be the current focus, with a broader innovation mission as we move forward. He also noted that EDC2 is advancing, in partnership with AASHTO, as well as SHRP2.

With respect to the Office of Infrastructure, many efforts are underway to prepare us in the transition to a performance management approach. We continue to advance Asset Management initiatives and pavement initiatives. Kudos to AASHTO for the advancement of DARWin-ME. We are preparing to advance a Notice of Proposed Rulemaking for consultant services, consistent with the Q&As released last year. The final rule for Value Engineering was recently completed. The memo on proprietary products was issued last November.

Finally, John presented a short summary of the new Federal-aid essentials for Local Public Agencies web site that will be launched in August. The site will host 80 modules covering seven main components of the Federal-aid program. A handout was provided.

Other presentations included the following:

- PIARC Update by Marty Vitale, AASHTO
- Standing Committee on Research (SCOR) Update by Floyd Roehrich, AZ
- Standing Committee on Environment (SCOE) Update by Kevin Walsh, MA
- Sustainable Transportation Steering Committee (STEICS) Update by Rick Land, CA
  - It was suggested that the committee delete the term “sustainable” in the title, since that term has implications. The committee will consider this suggestion.
- Transportation Association Canada, Chief Engineers’ Council Update by Greg Johnson, MI

Respectfully submitted by
John Baxter
Secretary, SCOH
May 22, 2012
American Association of State Highway and Transportation
Standing Committee on Highways

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<td>Iowa</td>
<td>John F. Adam P.E.</td>
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<tr>
<td>Massachusetts</td>
<td>Thomas F. Broderick III, P.E.</td>
<td>Acting Chief Engineer</td>
<td>Massachusetts Department of Transportation</td>
<td>(617) 973-7847</td>
<td>(617) 973-8865</td>
<td><a href="mailto:Thomas.F.Broderick@state.ma.us">Thomas.F.Broderick@state.ma.us</a></td>
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<tr>
<td>Michigan</td>
<td>Gregory C. Johnson P.E.</td>
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<tr>
<td>Minnesota</td>
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<td>Minnesota Department of Transportation Transportation Building MS 110</td>
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<td>Mississippi</td>
<td>Mark C. McConnell P.E.</td>
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<td>Missouri</td>
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<td>Chief Engineer</td>
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<td>Montana</td>
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<td>Jeff Brillhart</td>
<td>Assistant Commissioner and Chief Engineer</td>
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<td>New Jersey</td>
<td>Eli &quot;Dave&quot; Lambert III, P.E.</td>
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<td>P.O. Box 600, Trenton, NJ 08625-0600</td>
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<td>New Mexico</td>
<td>Max E. Valerio P.E.</td>
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<td>North Carolina</td>
<td>Terry R. Gibson P.E.</td>
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<tr>
<td>North Dakota</td>
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<td>James A. Barna</td>
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<td>South Carolina</td>
<td>John V. Walsh P.E.</td>
<td>Deputy Secretary for Engineering</td>
<td>South Carolina Department of Transportation, P.O. Box 191, Columbia, SC 29202-0191</td>
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<td>Tennessee</td>
<td>Paul Degges</td>
<td>Chief Engineer</td>
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<td>Texas</td>
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<td>Utah</td>
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<td>Richard Tetreault</td>
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<td>Malcolm T. Kerley P.E.</td>
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<tr>
<td>Washington</td>
<td>Jerry C. Lenzi</td>
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<td>West Virginia</td>
<td>Marvin G. Murphy P.E., P.L.S.</td>
<td>State Highway Engineer</td>
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<td>Wisconsin</td>
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<td>Wyoming</td>
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*HW-12-09 SURVEY SCOH 2012 Annual Meeting – 35 responses (August to September 2012)*
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SUBCOMMITTEE ON BRIDGES AND STRUCTURES

Officers
- Chair: Malcolm T. Kerley (Virginia)
- Vice Chair: Bruce Johnson (Oregon)
- Secretary: M. Myint Lwin (FHWA)
- Assistant Secretary: Raj Ailaney (FHWA)
- AASHTO Liaison: Keith Platte and Kelley Rehm

Summary of Activities and Accomplishments:
The 2012 Annual Meeting of the AASHTO Subcommittee on Bridges and Structures (SCOBS) was held in Austin, Texas on July 8-12, 2012. There were 47 States in attendance. During this meeting, the twenty (20) SCOBS Technical Committees met to conduct technical committee business, followed by a two-day general session meeting of the full Subcommittee to review ballot required changes, additions to the design specifications, and guide documents maintained by the Subcommittee. The Subcommittee also hosted a Chairman’s lecture by Dr. Joseph Yura of University of Texas on “Solving Practical Problems through Research.”

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 49 technical agenda items.

The Subcommittee has addressed recommendations H-08-20, H-08-21, H-08-22, H-08-24, and H-08-25 from National Transport Safety Board (NTSB) concerning the I35W accident. One outstanding recommendation (H-08-23) from this accident is to update the “Manual of Bridge Evaluation” after the joint research study on gusset plate is available. AASHTO plans to include relevant gusset plate information in the Manual for Bridge Evaluation when NCHRP Project 12-84, “Guidelines for the Load and Resistance Factor Design and Rating of Riveted and Bolted Gusset-Plate Connections for Steel Bridges” conclude. This study is currently underway with FHWA’s Turner Fairbank Highway Research Center as the primary contractor and Georgia Tech as the subcontractor. AASHTO will consider incorporating appropriate recommendations from this study into AASHTO specifications as soon as practical.

In addition, as a result of a barge impact on I-40 Bridge in Oklahoma in 2004, NTSB recommended to AASHTO (H-04-31) on providing guidance to the states on using an “Advanced Motorist Warning System” once developed by FHWA. This recommendation was discussed at the meeting and FHWA provided an update that on April 26, 2012, a showcase meeting at South Padre Island, Texas was conducted to understand the “Advanced Motorist Warning System” installed at Queen Isabella Causeway. FHWA concluded that the system installed with the sensor mechanism and integrated central control architecture is operational and effective and technology 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 State.

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. A Task Force comprised of members from SCOBS and from SCOM is formed to discuss technical advisory on this issue and ongoing efforts were discussed at the meeting.

The committee discussed the FHWA’s new 23 metric NBIS Compliance Review process. This process involves the assessment of 23 individual compliance metrics based on the National Bridge Inspection Standards regulations. FHWA/AASHTO National Bridge Inspection Task Force has met and collaborated on these 23 Metrics and have identified 15 action items that are prioritized and grouped under three main areas; Short-term changes for PY2013; Long-term changes for PY2014 and beyond; and identification of NBIS regulations issues. The committee also discussed the WASHTO resolution and concluded that based on the ongoing efforts of the already established Task Force between AASHTO and FHWA, the subcommittee did not see a need for the resolution.

On July 6, 2012, President signed into law P.L. 112-141, the Moving Ahead for Progress in the 21st Century Act (MAP-21). The law funds surface transportation programs at over $105 billion for fiscal years (FY) 2013 and 2014.
and is the first long-term highway authorization enacted since 2005. FHWA made presentation on MAP-21 to the subcommittee and highlighted performance-based and multimodal program to address the challenges facing the U.S. transportation system. The challenges include improving safety, maintaining infrastructure condition, reducing traffic congestion, improving efficiency of the system and freight movement, protecting the environment, and reducing delays in project delivery.

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 and prioritizing the publication of the specifications and other documents.

SCOBS will continue to focus on the development and deployment of new technologies and materials 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 Portland, Oregon on June 16-20, 2013. Other future meetings of the Subcommittee have been scheduled in the following states: 2014 in Ohio; 2015 in New York; 2016 in Washington; 2017 in Minnesota; and 2018 in Vermont.

Schedule on New/Recent/Updated Publications

Below is a table showing the publication status as of July 6, 2012:

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<tr>
<th>Pub Code</th>
<th>Title</th>
<th>Current Status</th>
<th>Tech Review</th>
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<td>LRFDUS-6-I1</td>
<td>2013 Interim Revisions to the AASHTO LRFD Bridge Design Specifications, 6th Edition</td>
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<td>LRFDCONS-3-I3</td>
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<td>LRFDMOV-2-I4</td>
<td>2013 Interim Revisions to the AASHTO LRFD Movable Bridge Bridge Design Specifications, 2nd Edition</td>
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<tr>
<td>BWC-6-I2</td>
<td>2013 Interim Revisions to the AASHTO/AWS D1.5M D1.5:2010, Bridge Welding Code, 6th Edition</td>
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<tr>
<td>GSID-3-I1</td>
<td>2013 Interim Revisions to the Guide Specifications for Seismic Isolation Design, 3rd Edition</td>
<td>Interim</td>
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<tr>
<td>LRFDFRP-1</td>
<td>LRFD Guide Specifications for Design of Concrete-Filled FRP Tubes for Flexural and Axial Members</td>
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<tr>
<td>FRPS-1</td>
<td>Guide Specifications for Design of Bonded FRP Systems for Repair and Strengthening of Concrete Bridge Elements</td>
<td>New Edition</td>
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HIGHWAYS SUB COMMITTEE ON CONSTRUCTION (SOC)

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 San Francisco, California August 12 – August 16, 2012. There were 40 states represented.
2. Topics included the 2011 shutdown of State Government in Minnesota and the impact on the construction program and host state presentations of the San Francisco Oakland Bay Bridge project and the Presidio Parkway project. Additional presentations included the subjects of warm mix asphalt, accelerated bridge construction, innovative technologies deployed, climate change, work zone safety and staffing and funding challenges moving forward. General discussions sessions included the Construction Peer Network and Strategic Plan for the SOC.
3. The SOC continues to participate in expert task groups, national task force, FHWA, AASHTO, industry and other joint committees.
4. Mr. Greg Nadeau, FHWA Deputy Administrator provided an overview of the next phase of the Every Day Counts (EDC) initiative.
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 will be posted on the SOC website.
2. A survey was completed compiling issues related to consultant inspection services. The results of the survey will be posted on the SOC website.
3. A survey was completed regarding guidance to field staff for prompt payment requirements. The results of the survey will be posted on the SOC website.
4. A survey was completed compiling the use of partnering in construction projects by state DOT’s. The results will be posted on the SOC website.

Computers and Technology Section
Accomplishments
1. Provided input to FHWA initiative for development of training related to Civil Integrated Management (CIM).
2. Continued to provide leadership and guidance for development of the AASHTO web based Trns●Port software suite.
3. Finalized quick reference guide to assist states with automated machine guidance (AMG) preconstruction requirements, construction specifications and data exchange protocol.
4. Provided input to SOC for development of Vision and Mission statements which align with the SCOH 2010 – 2014 Strategic Plan.
5. Completed survey of states to identify State policies, procedures and best practices regarding electronic construction data collection, with focus on Local Public Agency (LPA) project oversight.
6. Supported implementation of SHRP 2 deliverable products with focus on technology based equipment.
Roadway & Structure Section
Accomplishments

1. Completed a survey of best practices regarding the construction of longitudinal joints in bituminous concrete pavements. FHWA and the Asphalt Institute are partnering to offer free workshops addressing best practices for specifying and constructing HMA longitudinal joints.
2. Members discussed the resources available to states from FHWA’s EDC webpage specific to prefabricated bridge elements and systems. Also noted is SHRP 2 R04 as an important resource for accelerated bridge construction and the pending tool box now under development. Members discussed the need for guidance on proper construction inspection of PBES.
3. Members discussed bridge ride quality specifications and determined that Iowa, Georgia, California and Florida all have specifications addressing this subject and could serve as a resource for other states considering bridge ride quality specifications.

Environment and Human Resources Section
Accomplishments

1. Completed a survey on recycled materials and ancillary waste including how the waste is handled and treated.
2. Completed a survey on the impacts of extreme weather on construction contracts including specification language used to manage contractor risk.
3. Completed a survey on requirements for construction inspection and skill sets including what certifications are required and what reciprocity exists between states or regions.
4. Completed a survey on the use of law enforcement in work zones to include how states are addressing jurisdictional, functional and funding challenges.

Research Steering Committee
Accomplishments

1. Two (2) of the research proposals submitted following the 2010 annual Subcommittee on Construction meeting are funded by NCHRP:
   - NCHRP 10-89 “Determination of Best Practices for Optimal Construction Inspection” The project is just getting started.
   - NCHRP 20-05/Topic 43-13 “Forecasting Construction Staffing Requirements for Future Projects” The project is just getting started.
2. One new research problem statement and one new synthesis were considered and approved for submission to NCHRP by the Subcommittee on Construction during the 2012 Annual meeting in San Francisco.
   - Research: Assessing Highway Agency Readiness for Civil Integrated Management
   - Synthesis: Synthesis of the current practice of credentialing construction inspectors, both consultant and state employees to include regional standards, reciprocity and acceptance criteria.
SCOH BUSINESS AGENDA
V. Activity Reports – 2012
Pittsburgh, PA, November 16, 2012

AASHTO HIGHWAY SUBCOMMITTEE ON DESIGN

Chair Barry Schoch, Pennsylvania
Vice Chair Richard Land, California
Secretary David Nicol, FHWA
Liaison Keith Platte, AASHTO

Annual Meeting
The Subcommittee on Design (SCOD) held their annual meeting in Portland Maine on June 10-14, 2012.

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**
  - Annual meeting: October 8-10, 2012; Columbus OH
  - Published new Cost Estimated Guide.
  - Compilation of survey results completed; State estimating contacts and resources links developed
  - New members: Region 1 - Alan Ellis replaced Mike Fowler (both Vermont); Region 3 – Natalia Roark (Missouri)
- **Future Events**
  - 2013 Annual meeting: Oklahoma, OK
  - 2013 Annual Transportation Estimators Association workshop will be attended by many TCCE members

**TC on Environmental Design**
- **Completed Tasks/Activities**
  - 2012 Annual meeting held in Baltimore MD.
  - New members: Laura Hilden, Indiana
- **Future Events**
  - 2013 Annual meeting: Not yet planned

**TC on Geometric Design**
- **Completed Tasks/Activities**
  - 2012 Annual meeting: June 24-27, Chicago IL.
  - New members: Richard Wilder, New York
- **Future Events**
  - 2013 Annual meeting: July 30- August 1st, Irvine CA

**JTC on Electronic Engineering Data**
- **Completed Tasks/Activities**
  - No meeting held
  - Funding approved for a NCHRP project.
- **Future Events**
  - Build off NCHRP project
  - No meeting planned
TC on Non-Motorized Transportation

- **Completed Tasks/Activities**
  - No meeting held
  - Published the new Bike Guide

- **Future Events**
  - No planned meeting
  - Continue work on updating the Pedestrian 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**
  - No meeting held
  - Continue work on revisions to the Roadway Lighting Guide

- **Future Events**
  - No meeting planned
  - Plan on completing an update to the Roadway Lighting Guide

TC on Roadside Safety

- **Completed Tasks/Activities**
  - Met in September, 2012, to address final issues with respect to Roadside Design Guide
  - Roadside Design Guide 4th Edition balloted and approved. Published September 2011
  - Teleconference September 1, 2011, to discuss NCHRP Report 350 tested devices that failed MASH
  - New Members: See attached 2011 Roster
  - Recent NCHRP Research Projects approved:
    1. [NCHRP 17-55 Guidelines](#) for Slope Traversability
    2. [NCHRP 17-61 Work](#) Zone Crash Characteristics and Countermeasure Guidance
    3. [NCHRP 22-28 Criteria](#) for Restoration of Longitudinal Barriers, Phase II
    4. [NCHRP 22-29 Performance](#) of Longitudinal Barriers on Curved, Superelevated Roadway Sections

- **Future Events**
  - Annual Meeting to be held September 2013
  - TCRS Subcommittee to develop process for addressing NCHRP 350 hardware failing MASH criteria

JTC on Pavements

- **Completed Tasks/Activities**
  - Meeting held – in Louisville KY
  - Published the revised Pavement Management Guide.
  - New members:

- **Future Events**
  - Next meeting: TBD
  - Plan on competing and publishing the Pavement Handbook

JTC on Value Engineering

- **Completed Tasks/Activities**
  - 2011 AASHTO VE Peer Exchange Workshop September 18-21, 2011 in New Orleans
  - Offering two classes at this year’s Peer Exchange, “Qualitative Risk Analysis and Risk Management” and “Value Analysis in Action”
  - Finalize development and implementation of our TC work plan
o Continue to stay actively involved in the proposed FHWA changes to the VE policy
o Review and update the Guidelines for Value Engineering (dated March 2010)
o Conduct quarterly TC meetings via telecom and live-meeting

• Future Events
  o Here are some future events planned for our TC:
    ● 2013 AASHTO VE Peer Exchange Workshop in July 2013 in St. Paul MN
    ● Offering classes at this year’s Peer Exchange, TBD.
    ● 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)
    ● Conduct quarterly TC meetings via telecom and live-meeting

JTC on Hydrology and Hydraulics
• Completed Tasks/Activities
  o (Fall 2010 – Joint meeting of TCHH, TRB AFB 60, and FHWA National Hydraulics Engineering Conference – in person meeting (Agenda in Appendix)
  o Spring 2011 – Teleconference providing discussion of current issues and manuals (Agenda in Appendix)

• Future Events
  o Revisions to Highway Drainage Manual – Policy and Procedures underway. TCHH members have written the technical content of the numerous topics under our purview. The TCHH consultant’s primary tasks are to unify the manual’s language, remove duplications, and prepare the manual for publication.
  o Development of 20-07 research project requests
  o Development of Research Requests - The TCHH has historically been very active and successful in targeting research needs. In the past, bridge scour has been the dominant topic of our proposed research, but recently, difficult environmental stormwater and environmental stream stabilization issues are provoking needed research. Thus, the TCHH collaborated actively with the Standing Committee on the Environment (SCOE) and the TRB AFB60 Committee in submitting the last round of research needs statements.
  o The TCHH expects that, as national stormwater issues continue to become more challenging, we will have increasing involvement with SCOE.

Future Events
The next meeting of SCOD is scheduled for Bozeman Montana, June 2-6, 2013.
Subcommittee on Highway Transport—Leadership:
Chair: Mark, Gottlieb, Wisconsin
Vice-Chair: Jeff Honefanger, Ohio
Secretary: Tom Kearney, FHWA
Liaison: Leo Penne, AASHTO

Subcommittee on Highway Transport—Charge:
The Subcommittee on Highway Transport is AASHTO's trucking committee. “The Subcommittee shall be concerned with the interrelationship between commercial vehicle operations and the highway systems of the United States. It shall evaluate the degree to which the needs of interstate commerce are met by the highway systems in their current state of improvement under existing laws, policies and practices, and make recommendations that contribute to improving the efficiency of highway systems to handle commercial vehicles with due regard to public safety and the conservation and cost of the highway plant.” It is responsible for truck size and weight issues, including oversize/overweight permitting.

Activities from October 2011 to November 2012:

SCOHT Annual Meeting: Milwaukee, Wisconsin
The Subcommittee on Highway Transport met in Milwaukee, Wisconsin in July of this year. The meeting was hosted and organized by the Wisconsin DOT. Participants were welcomed by Mark Gottlieb, Secretary of the Wisconsin DOT ad 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.

Jack Van Steenburg, Chief Safety Officer for the Federal Motor Carrier Safety Administration, and Tom Kearney, Freight Operations Program Manager for the Federal Highway Administration provided briefings on Federal agency commercial vehicle activities. The agenda also included: regional permitting and harmonization of oversize/overweight requirements; facilitating the movement of super loads, emergency response, shale drilling and trucks, and connected commercial vehicles. The sessions on harmonization, emergency response, and truck size and weight were available as webinars to the members who could not attend the meeting in person, and are archived on the committee web page at www.highwaytransport.transportation.org.

The Subcommittee discussed and subsequently approved by electronic ballot a resolution on Actions to Reduce Impediments to Interstate Commerce: Harmonizing Requirements for Truck Permits.

The Subcommittee will sponsor a workshop on approaches to assessing state proposals for changes in state truck size and weight laws at the meeting of the Standing Committee on Highways at the 2012 AASHTO Annual Meeting.

Preceding the meeting several of the regional highway transport committees met as did the TRB Committees on Truck Size and Weight and Trucking Research.

Work Items
Items on the Subcommittee work plan include:
- Harmonization of oversize/overweight requirements.
- Coordinating permitting processes with local governments.
- 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.
Surface Transportation Reauthorization
MAP-21 requires three 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 2013 Annual Meeting will be held in Wilmington, North Carolina, July 8-11.
Summary of Activities and Accomplishments to date

- Worked with the FHWA Bridge Preservation Expert Task Group (BPETG), AASHTO SCOBS, and AASHTO regional bridge preservation on the definition of bridge preservation approved by the Standing Committee on Highways.
- Initiated NCHRP 20-05 Task 43-14 Fleet Funding Management and Charge-Back Systems to Develop Optimum Fleet Sustainability (Draft Report reviewed).
- Published AASHTO Equipment Reference Book for 2012.
- Published AASHTO guide, Decision Making for Outsourcing and Privatization of Vehicle and Equipment Fleet Maintenance.
- Assisted in the development and completion of NHI Class NHI 131050: Asphalt Pavement In-Place Recycling.
- Assisted in the development and completion of NHI Class NHI 134080: Environmental Factors in Construction and Maintenance Course.
- Conducted Low-cost Roadway Environmental Practices Survey and Discussion.
- Completed development and modification of AASHTO Computer-based Training CBTs to operate in a web browser, Shareable Content Object Reference Model (SCORM) compatible format which enables the CBT to launch from and work with state DOTs Learning Management Systems.
- Promoted the results of NCHRP 685, “Implementing Strategies to Attract and Retain a Capable Transportation Workforce.”
- Polled the members of Highway Safety and Reliability TWG on performance Measures.
- Conducted a Survey on Remaining Service Life (RSL) = 0. The survey will be resent in 2013 to help determine a common definition of Remaining Service Life of 0.
- Conducting regular quarterly teleconferences with the Bridge TWG members.
- Developing a model training and certification curriculum appropriate for state equipment managers by revising the skills matrix developed by the TCCC.
- Coordinating first NHI Maintenance Leadership Academy to be held 10/1/2012 – 11/9/2012 via on-line training and some classroom training in Chattanooga, TN.

Annual Meeting

The 2012 Subcommittee on Maintenance meeting was held jointly with TRB Maintenance in Seattle, Washington, on July 14-19.

The 2013 Subcommittee on Maintenance meeting will be held jointly with the Subcommittee on Asset Management in Burlington, Vermont from July 21–25, 2013.
OFFICERS:
Chair: Grant Levi, ND
Vice Chair: Mark Felag, RI
Secretary: Jack Springer, FHWA
AASHTO Liaison: Greta Smith, Jim McDonnell

SUMMARY OF ACTIVITIES AND ACCOMPLISHMENTS FROM OCTOBER 2011 TO OCTOBER 2012:

The SOM held its 98th Annual Meeting in Biloxi, MS on August 5 to August 10, 2012. The 21 Technical Sections; the Executive Committee and the AMRL Administrative Task Group (ATG) all met during the period. 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 first major item involves Title 23, Section 637.209. In this section FHWA is allowed to recognize lab accreditation bodies other than the AMRL when it comes to accrediting labs conducting test on highway materials. Butch Wlaschin from FHWA joined the EC to discuss the issue. Two other accreditation bodies have been found comparable to the AMRL and the SOM is concerned that eventually this could affect the quality of highway construction. The highway agencies currently are involved in the operations of the AMRL and it is believed that this involvement help makes sure the DOTs needs are achieved. With the 2 labs that have been found comparable to the AMRL, the DOTs have no oversight and have asked Butch to see if it is possible for the DOTs to have some involvement in the oversight of these new accreditation bodies.

Some other items that were discussed included a replacement for Mark Felag who is the current Vice-Chair of the SOM and has served in this position for six years. Georgene Geary from Georgia has been recommended to replace Mark Felag. Since the meeting Georgia DOT has separated Materials and Research into separate Offices but she will remain as a GDOT SOM member for at least two years.

We also discussed our business model for developing standards and conducting a cost benefit analysis on the products developed from a research project.

There was continued discussion of the MOA between AASHTO and ASTM. Greta Smith informed us that an agreement is near but as of yet, unsigned.

We also began discussion of the 100th meeting of the SOM which will be hosted by the Minnesota DOT.

Representatives from 41 States plus NCHRP, academia and industry participated in the meeting. FHWA had limited participation at this year’s SOM meeting. James Williams from Mississippi DOT was nominated and approved to be the Region II Vice-Chairman.

The 2012 SOM Achievement Award was presented to the SOM Secretary, Jack Springer, FHWA. The 2012 SOM Service Awards were presented to Bruce Yeaton (ME) and Jeff Sieders (TX). Mark Felag was recognized for his 6 years of service as Vice-Chair of the SOM.

The 32nd 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 2012, over 1600 labs held AASHTO accreditation. This is a 4% increase over the past year and a 35% increase over the last 5 years. The 28th assessment tour is scheduled to be completed by December 2012. In this tour approximately 1600 labs will have been visited which will be a 6% increase over the previous tour and an 18% increase over tour 26. There continues to be concern over other accreditation bodies being found comparable to the AMRL and allowed to conduct assessments and accreditations of labs. This has happened in the past year. The committee that oversees the AMRL is composed of members of...
AASHTO members from the SOM and there is concern that the SOM would not have the same type of involvement with another accreditation body.

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 most technical sections now use the e-ballot system for tech section ballots. A number of tech sections have held mid-year meetings over the web.

There were three resolutions passed at this year’s meeting. The resolutions were as follows:

- Encourage the Use of AASHTO Material Standards by other AASHTO Committees
- Support the International Studies Program and resume the Scan Tours
- Support the Inclusion of External Stakeholders as Non-Voting Members

Presentations of interest at the Plenary Sessions included a presentation on, SHRP 2, Joint Working Group on Grout, Crumb Rubber, FHWA’s Sustainable Pavements Program, 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 99th annual meeting of the SOM will be held August 5 to 9, 2013, in Stateline, Nevada. The proposed location of the 100th meeting of the SOM is to be held in Region III and hosted by Minnesota DOT.
2012 Spring Membership Meeting and Conference:
The Highway Subcommittee on Right of Way and Utilities met in Portland, Oregon on April 29 - May 3. The theme for the 2012 conference was “Where Tradition and Transformation Converge.”

Change in Subcommittee Responsibilities:
At the May meeting, the Subcommittee on Right of Way and Utilities passed a resolution requesting that the AASHTO Standing Committee on Highways formally add responsibility of Outdoor Advertising Control to the responsibilities of the Subcommittee. At the AASHTO 2012 Spring Meeting in Traverse City, Michigan, the Standing Committee on Highways adopted the resolution and the new name for the Subcommittee is the Subcommittee on Right of Way, Utilities, and Outdoor Advertising Control.

2012 FHWA Excellence in Right of Way Awards:
Congratulations to the nominees and winners of the Federal Highway Administration's 2012 Excellence in Right of Way Awards. The award recipients were honored on May 2, 2012, during the American Association of State Highway and Transportation Officials (AASHTO) annual meeting of the Subcommittee on Right of Way and Utilities in Portland, Oregon.

- **Peer of the Year Award: Mr. Edward Rush, Florida DOT**
  This Peer of the Year Award recognizes Mr. Rush's distinguished and influential career in the real estate field and in his current position as the Manager of Appraisal and Appraisal Review for FDOT. Mr. Rush has been recognized for his proactive leadership of FDOT's statewide appraisal and appraisal review programs. Mr. Rush energetically takes on opportunities to improve and enhance the program, has a mentoring and coaching management style that encourages program growth and excellence, and sets a high level of performance expectations for the appraisal and appraisal review programs.

- **Innovation Award: Minnesota DOT**
  This Innovation Award recognizes Kevin Leonard and Roy Blanke of MnDOT's Office of Land Management for their geo-spatial enablement of MnDOT's Right of Way Electronic Land Management System (REALMS), creating a work environment that brings intelligent mapping to the fingertips of right-of-way practitioners. The system provides valuable right of way information to scoping, planning, and design personnel, giving them more accurate information earlier during the project development, and allowing for better and more cost effective decision making.

- **Leadership Award: Virginia DOT**
  This Leadership Award recognizes Richard Bennett and the Right of Way and Utilities Division employees' regionalization and reorganization of their division in the face of significant staff reduction statewide. Their numerous innovative solutions allowed staff to continue to meet project schedules and increase their flexibility in response to unanticipated needs and critical situations.

- **Stewardship Award: Utah DOT**
  This Stewardship Award recognizes employees of UDOT, HDR, and Parsons Brinckerhoff for their role in developing innovative property acquisition techniques on the Mountain View Corridor freeway development project. They are being recognized for creating acquisition teams to focus on property owners' needs in a declining market with properties facing short sales and/or foreclosures. Additionally, the Division worked with lending institutions to protect owners' financial statuses and adopted web-based tracking systems to streamline the acquisition process, reduce condemnations, and promote the corridor preservation program.

- **Streamlining and Integration Award: Mississipi DOT.**
  This Streamlining and Integration Award recognizes MDOT's Outdoor Advertising Program and the individuals that assisted with the development of an in-house computer program designed to streamline the outdoor advertising control permit process and create an efficient, well managed inventory. The system not only manages sign inventories, but allows easy access to sign owners requesting permits to check sign status and/or
request a vegetation removal permit via the agency website. Overall, the program reduces delays, enhances coordination between Right-of-Way Division and State Districts, and allows the public to access the information.

- **Technical Specialty Award: Massachusetts DOT**
  This Technical Specialty Award recognizes Edward Farley, Sue Welliver, and Thomas Gray for the design and implementation of an inclusive database system that allows access to license and permit information by both staff and the public. This project contributes to the Right-of-Way Bureau's recent progress in promoting transparency in the OAC permitting process and field inspections, and in clarifying jurisdictional and enforcement issues.

- **Judges Award: Georgia DOT**
  The judges recognized Barry Baynes and Wesley Brock of GDOT's Office of Right of Way for their innovative development of a new Right of Way and Utility Relocation Cost Estimate Tool (RUCEST) for the planning stage of right of way and a new detail cost estimate program. These tools have contributed to a measurable improvement in the accuracy of right of way costs, which in turn has improved GDOT's ability to deliver projects on time, decreased delays in obtaining right of way funding, and eliminated surprise shortfalls at the end of the right of way process.

- **Tribal Partnership Award: Wisconsin DOT**
  This Tribal Partnership Award recognizes how the WisDOT Northeast Region and the Oneida Tribe of Indians of Wisconsin have fostered a unique, proactive, and collaborative working relationship to improve communications, harmonize decision making processes, and reduce overall time needed to acquire rights of way. The establishment of separate tribal consultation meetings and outreach efforts regarding right of way policies and procedures has successfully contributed to an increase of information and feedback exchange between the two groups.

- **Current Initiative Award: Arizona DOT**
  The Current Initiative Award recognizes the Right of Way Group Plans Section's development and implementation of a website that allows both public and private access to existing right of way plans for the state highway system. This "On-Line Plans Resource" is an excellent demonstration of developing and implementing an innovative idea that contributes to the efficiency of the right of way process and shortens project delivery in support of the Every Day Counts initiative.

For additional information about this year's award recipients and their winning efforts, please visit the FHWA website at [FHWA 2012 Excellence in Right of Way Awards](http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1570).

**Summary of Subcommittee Research Activities and Publications for 2012:**

1. **Domestic Scan 10-01, 01 Best Practices for Risk-Based Forecasts of Land Volatility for Corridor Management and Sustainable Communities.** The final report for this domestic scan was published September 4, 2012, on the TRB project web page. The final scan report can be downloaded from following webpage. [http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1570](http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1570)

2. **NCHRP 20-07, Task TBD, “Safety Checklists and Design Guidelines for Evaluation of Outdoor Advertising Signs and Permit Locations by Departments of Transportation (DOTs)”** - The objectives of this research are to (a) review existing and developing safety checklists and safety criteria, (b) review existing and developing design guidelines and strategies on a national and international basis, and (c) develop an NCHRP project to develop design guidelines, safety criteria and checklists for use in Outdoor Advertising regulatory control programs.

3. **NCHRP 20-07, Task TBD, “Best Practices for Automating Utility Permits”** - The objectives of this research are to (a) locate and assemble documented information, (b) identify practices that have been successfully used to remedy utility problems, (c) identify similar completed or ongoing research, (d) identify which problems remain largely unsolved, and (e) organize, evaluate, and compile best practices in current use.

4. **NCHRP 20-07/Task 269, “Feasibility of Using Incentives to Facilitate Utility Relocations”** was funded at $75,000 and approved effective July 30, 2010, with a completion date of April 29, 2011. The primary research was conducted by Paul Scott, P.E. of Cardno - TBE. The objectives of this research project were to: (a) document state DOT experiences using incentives for utility relocations; (b) investigate how incentives have been used to accelerate other critical construction-related activities; and (c) recommend incentives State DOTs may want to consider. Review of this project is on-going.
5. **NCHRP 20-84, “Improved Right of Way Procedures and Business Practices”** was funded at $500,000. The contract to perform the research has been awarded to the Texas Transportation Institute. The principal research engineer will be Cesar Quiroga, PhD, P.E. The objectives of this research are to develop: (1) improved right of way procedures and business practices for the project development and delivery process, and (2) best practices for the long-term management of right of way assets. This research should compare a typical right of way business model currently in compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Uniform Act) and federal regulations with an improved model based on an objective analysis of key elements including, but not limited to: (a) project scoping; (b) cost and duration budgets; (c) contracting for services; (d) mapping and geographic information systems (GIS); (e) utility adjustment and accommodation; (f) relocation planning and eligibility determination; (g) appraisal; (h) appraisal review; (i) relocation, cooperation, and coordination between transportation agencies and utility companies; (j) acquisition and negotiations; (k) titles and closing; (l) eminent domain; (m) legal settlements; (n) property and asset management; (o) encroachment remediation; and (p) administrative costs (including training). Work on this project is on-going. Please visit the [Transportation Research Board (TRB) site](#) for additional information regarding the status of 20-84.

6. **SHRP 2 R15(B), Identification of Utility Conflicts and Solutions** - Two critical factors that contribute to inefficiencies in the highway project development process are the lack of accurate, complete information about utility facilities that might be in conflict with the project, and the resolution and overall management of those issues. When utility relocation is involved, construction generally takes longer and costs more. Identifying and resolving potential utility conflicts early in the design process can minimize these delays and costs. The objective of this project was to provide a tool and methodology for identifying and resolving utility conflicts that public agency and utility professionals can use to improve the project development process. SHRP 2 is currently pursuing the implementation of the Utility Conflict Matrix software.

7. **New National Highway Institute Course: FHWA-NHI-134006 Utility Coordination for Highway Projects** This is a blended course, with both Web-based and instructor-led components. Every state highway agency participates in construction projects that include accommodation and relocation of utilities along public rights of way. 134006 Utility Coordination for Highway Projects considers how communication, cooperation, and coordination between transportation agencies and utility companies can mitigate or avoid common challenges. Participants in this blended course (combination of Web-based and instructor-led formats) learn how, when, and where in the project development process to identify and conduct effective utility coordination.

**Future Meetings of the Highway Subcommittee on R 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 will meet in January 2013 in Savannah, Georgia, 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 07-10, 2013
- Location: Savannah, Georgia
- Duration: 2½ days
- Frequency: Subcommittee Executive Board meeting occurs annually

**Annual Subcommittee Meeting and Membership Conference**
The 2013 annual conference and meeting of the subcommittee membership will be hosted by the Georgia Department of Transportation in Savannah this spring. This conference will be co-located with the annual conference of the National Association of Highway Beautification Agencies. The full membership of the subcommittee is composed of individual right of way and utility directors from each of the 50 states, Puerto Rico and the District of Columbia, as well as FHWA liaisons for both royalty and utility program areas. Separate business meetings of the right of way and utility directors are incorporated into the conference schedule.

- Dates April 14 – April 18, 2013
- Location: Savannah, Georgia
- 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](#).
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

- Committee is continuing to work with FHWA and TRB-SHRP2 Reliability Office to coordinate SHRP2 Reliability Implementation efforts. SSOM has partnered with FHWA and TRB-SHRP2 Reliability Office and conducted SHRP 2 Reliability Organizational Products Implementation Planning Workshops which involved members from key AASHTO subcommittees including SCOTE, SCOM, SCOTSEM, ScOWT and Subcommittee on Asset Management and other associate members from local government and Metro Politian Organization (MPO) agencies and other membership organizations including ITSA and ITE.

- Committee is actively working with FHWA, NTOC, NTIMC, and ITE on Traffic Incident Management programs. Recent initiatives include participation and active support at the FHWA's National Public Safety Summit, webinars on SHRP 2 Train the Trainer programs on Incident Management programs and liaison roles at the 2012 National Peer Exchange All Hazards Summit on Security and Emergency Response and Preparedness Summit.

- Committee is actively working with TRB staff and panel members on NCHRP Project 20-07, Task 298; Operations Center of Excellence. The objective of this research is to develop a concept and implementation plan for the development and long term support of the Operations Center of Excellence. This effort is expected to be completed in early 2013.

- NCHRP Project 20-86, Attracting, Recruiting, and Retaining Skilled Staff for Transportation System Operations and Management is completed and the report is published. The objective of this research is to provide transportation agencies with strategies and resources to meet their needs for operations staff. The research will consider the potential demand for and supply of SOM workforce; the actions transportation agencies may take to attract, recruit, develop, and retain skilled staff with SOM capabilities; and the tools that are available or may be developed to assist agencies to take action.

- Committee has initiated efforts in full force to re-energize the overall membership. We are working with FHWA, SHRP2, ITE and ITSA to put on Operations webinars. We are conducting a survey of the membership to help identify the "vital few" initiatives that SSOM should be focused on. We are also looking to recruit new leadership team members.

- Committee is closely working 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.

Annual Meeting

The 2013 Subcommittee on System Operations and Management is tentatively planned to be held on April 9-10 in Phoenix, Arizona. AZDOT will be hosting the annual meeting.
Committee Officers
Chair Bernie Arseneau, MN
Vice Chair Mark Wilson, FL
Secretary Mark Kehrli, FHWA
Liaison Gummada Murthy, AASHTO

Summary of Activities and Accomplishments to date

- Committee recognized outgoing Vice Chairman Tom Hicks, MDSHA, of SCOTE for his outstanding leadership and dedication in leading the SCOTE initiatives and welcomed Mark Wilson, FDOT, as the new Vice Chair.
- Committee at their 2012 SCOTE Annual meeting discussed issues related to the 2009 changes to the MUTCD and the impact those changes as well as the compliance dates to meet specific traffic control standards would have on state DOTs.
- SCOTE members recognized the fact that over a dozen state and local transportation agencies have added detection and dynamic elements to intersection warning signs to create over 30 different variations of intersection conflict warning systems (ICWS). To support this effort SCOTE members passed a resolution to recommend the NCUTCD regulatory/Warning Sign Technical Committee establish a task force that will be committed to review and recommend to FHWA the ICWS content for the MUTCD and/or other guidance documents. As a follow up - the SCOTE technical taskforce teams have already initiated this effort and a Taskforce under NCUTCD is established to take up this task.
- SCOTE members unanimously recognized that the highway safety is the major goal of highway operating agencies and highway geometric design and traffic engineering are both essential activities of highway operating agencies and identified that there is need to maintain a strong professional relationship between highway geometric design and traffic engineering from the standpoint of good highway safety practices. To advance these goals and objectives SCOTE members passed a resolution that an NCHRP 20-07 Project be undertaken to determine ways in which combined activities by highway geometric design and traffic engineering will improve overall highway operations and safety. AASHTO staff is working with SCOTE leadership team in preparing the problem statement. As next steps, the resolution and proposed NCHRP problem statement will be submitted to SCOD for review concurrence and support. The SCOTE and SCOD adopted resolution and problem statement will be submitted at 2013 AASHTO Spring meeting.
- Developed and submitted the following problem statements to NCHRP:
  - Simplification of Channelization Device Delineation Patterns
  - Improving the Effectiveness of High-Visibility Worker Apparel
  - One Way Signing - Section 2B.40, 2009 MUTCD
  - Identification of Factors Contributing to the Decline of Traffic Fatalities in the United States (jointly with SCOTS)
- Provide input and guidance to NTOC and ITE on next steps in updating the National Traffic Signal Report Card questionnaire and background material.
- SCOTE members participated in SHRP2 Implementation Planning workshops

Annual Meeting
The 2013 Subcommittee on Traffic Engineering will be meeting jointly with SCOTS in Portland, Oregon, in the spring of 2013.
NTPEP OVERSIGHT COMMITTEE

Officers
Chair: Daniel Grasser (Wisconsin Administrator)
Vice Chair: Tom Baker (Washington State, Materials Engineer)
AASHTO Liaison: Greta Smith, Program Manager for Construction and Materials
Katheryn Malusky, NTPEP Project Engineer
Evan Rothblatt, NTPEP Project Engineer

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 three full-time engineers who are responsible for day-to-day operations, administration and coordination of the NTPEP program. The program coordinates testing on a wide array of highway safety devices, construction materials and maintenance products. Whenever possible, cooperative agreements are entered into with Industry Associations who are expert 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.

The NTPEP Committee is composed of up to three members from each AASHTO member department. They provide technical guidance to the program. Chairman and Vice Chairman of the NTPEP Committee are appointed by the AASHTO Executive Director. For administrative matters and industry appeals an 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 the program was launched in January to allow product submittals for evaluation through independent laboratory contracts managed by AASHTO and to have reports posted to the website for state use in product certifications. 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>1</td>
<td>March 2013</td>
<td>Minnesota, Missouri</td>
<td>Coordinate laboratory evaluations of concrete admixtures. Publish and distribute final report</td>
</tr>
<tr>
<td>2</td>
<td>March 2013</td>
<td>Minnesota, Kansas</td>
<td>Coordinate laboratory evaluations of concrete curing compounds. Publish and distribute final report</td>
</tr>
<tr>
<td>3</td>
<td>April 2013</td>
<td>Virginia, Louisiana, Minnesota, Arizona and Missouri</td>
<td>Coordinate fabrication and install test panels for 2011-2013 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 2013</td>
<td>Louisiana, Minnesota, Arizona and Missouri</td>
<td>Coordinate, fabricate, and install 2011 “Roll Up Signing Materials” test deck at three field locations. Evaluate products and publish reports.</td>
</tr>
<tr>
<td></td>
<td>Date</td>
<td>Location</td>
<td>Description</td>
</tr>
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</tr>
<tr>
<td>5</td>
<td>August 2013</td>
<td>Tennessee</td>
<td>Coordinate, install, and perform field evaluations of Temporary Traffic Control Devices and publish reports.</td>
</tr>
<tr>
<td>6</td>
<td>May through June 2013</td>
<td>Pennsylvania, Florida, New York, Louisiana, Minnesota</td>
<td>Install and evaluate pavement marking test deck in Pennsylvania. Conduct routine readings on test decks installed in previous years (Florida and Minnesota). Perform laboratory evaluation of marking materials. Post data for completed testing for all test sites via DataMine web based data.</td>
</tr>
<tr>
<td>7</td>
<td>September 2012</td>
<td>Georgia, Florida</td>
<td>Coordinate, install, and evaluate raised pavement marker “sun country” field test deck in Georgia. Conduct laboratory testing on products. Post data for completed testing for all test sites via DataMine web based data.</td>
</tr>
<tr>
<td>8</td>
<td>September/October 2012</td>
<td>Ohio, Georgia, Florida</td>
<td>Coordinate, install, and evaluate snowplowable raised pavement marker field test deck in Ohio. Conduct laboratory testing on products. Post data for completed testing for all test sites via DataMine web based data.</td>
</tr>
<tr>
<td>9</td>
<td>October 2013</td>
<td>Ohio, Kansas, New York</td>
<td>Coordinate, install, and evaluate rapid set concrete patch field test deck. Conduct laboratory testing on products. Post data for completed testing for all test sites via DataMine web based data.</td>
</tr>
<tr>
<td>10</td>
<td>January 2013</td>
<td>North Carolina</td>
<td>Coordinate field evaluation of portable changeable message signs and flashing arrow panels. Post data for completed testing for all test sites via DataMine web based data.</td>
</tr>
<tr>
<td>11</td>
<td>Quarterly Cycles</td>
<td>Wisconsin, TRI Environmental</td>
<td>Quarterly solicitation and laboratory evaluation of Erosion Control Products. Post electronic test reports via NTPEP DataMine.</td>
</tr>
<tr>
<td>14</td>
<td>Continuous Program</td>
<td>TRI/Environmental, Kansas, Washington State, NTPEP Auditors</td>
<td>NTPEP Audit Program (NAP) is scheduled to conduct 45 audits for Plastic Pipe in calendar year 2011. Electronic reports are posted through 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 30 audits for Reinforcing Steel in calendar year 2011. Electronic reports are posted through DataMine.</td>
</tr>
<tr>
<td>16</td>
<td>Continuous Program</td>
<td>Washington, New York TRI/Environmental</td>
<td>Coordinate, sample and test geosynthetic reinforcement materials. Reports are published electronically.</td>
</tr>
<tr>
<td>18</td>
<td>October 2012</td>
<td>Indiana, NTPEP Auditors</td>
<td>Solicitation of manufacturers for participation in reinforcing steel and welded wire reinforcement manufacturing audit program. Audits will begin in the first quarter of 2013.</td>
</tr>
<tr>
<td>19</td>
<td>June 2012</td>
<td>Texas</td>
<td>Coordinate sampling and laboratory evaluation of Asphalt Release Agents. Reporting will follow for these products by November 2012.</td>
</tr>
</tbody>
</table>
NTPEP TEST DECKS (MAJOR PROJECTS 2012-2013 CYCLE)

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Location</th>
<th>Activity Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>October</td>
<td>Kentucky</td>
<td>Installation of the first High Friction Surface Course evaluation deck and Polymer Concrete Bridge Deck overlay deck for 3 year evaluation in central Kentucky. Reports will be issued annual with a summary completion in the fall of 2015.</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. 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 to increase the use of NTPEP results through speaking engagements, training opportunities, and peer exchanges.
- Introduce additional collaborative online communication for committee correspondence.
- Establish a greater presence in the AASHTO community.
- Structure the NTPEP organization to handle program growth – additional technical committees are being formed by NTPEP for the evaluation of Elastomeric Bridge Bearing Pads, Polypropylene Pipe, Precast Concrete Structures, Concrete Anchor Systems and Guardrail. These programs should be ready for product evaluations to begin in 2013 or 2014.

Upcoming Meetings:

NTPEP 2013 annual meeting of the NTPEP Committee
- Dates: April 21 through April 25, 2013
- Location: Pittsburgh PA
AASHTO HIGHWAY (SPECIAL COMMITTEE ON WIRELESS COMMUNICATIONS TECHNOLOGIES)

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

Annual Meeting

The 2012 Annual SCOWCoT Meeting was held concurrently with the 2012 Transportation Security Summit and Peer Exchange, August 19-24, 2012, at UC Irvine, California. The Special Committee members participated in joint meetings with the Subcommittee on Transportation Security and Emergency Management (SCOTSEM) as well as two and a half days of Wireless Workshop sessions. Presentations were made on a variety of wireless topics by Committee Members and guest speakers. Topics included the Nationwide Public Safety Broadband Network, the use of Radio Over IP in radio systems, standards for communications towers and many others. Guest speakers included Mr. Joe Vicente, Orange County Transportation Authority, and Mr. Robert Stoffel, Director of Communications for the Orange County, CA, radio system. All the guest speakers remarked about the depth and technical knowledge of the questions posed by the Wireless Committee members.

Completed Tasks or Activities

Congress’ passage of the 2012 Middle Class Job Creation and Tax Relief Act achieved final dispensation of the 700 MHz Public Safety Block D frequencies. The Act allocated Block D for a Nationwide Public Safety Broadband Network (PSBN), authorized expenditure of up to $7 Billion, and created the governing board known as First Net. The Committee discussed how best to advise their home agencies and state governments in responding to First Net regarding deployment in their state.

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 high level AASHTO Conferences as well as frequent meetings on a national level regarding public safety communications.

Mr. Brownlow and Mr. Gilbert represented AASHTO by manning a booth at the 2012 International Wireless and Communications Exposition (IWCE), again achieving more national recognition for AASHTO and member organizations. IWCE is annually the largest event worldwide concentrating on public safety communications, with over 325 vendors and booths and 2,000 attendees from government and business.

Future Events

Committee Chair Bill Brown will attend the AASHTO Annual Meeting, November, 2012, and provide an update on Wireless Communications Technologies and their value to transportation during a session of the Standing Committee on Highways (SCOH).

The 2013 Wireless Workshop will again be conducted during the 2013 Special Committee on Transportation Security and Emergency Management Summit scheduled for August, 2013 in Irvine, California.
Annual Meeting

The annual meeting of the Subcommittee on Asset Management was held in San Diego, CA on April 19, 2012. This meeting took place in conjunction with the Peer Exchange on Implementing Transportation Asset Management. Highlights of the annual meeting include the following:

- Implementing TAM Peer Exchange—Brought together people from across the U.S. to discuss different approaches to implementing transportation asset management. Detailed summary available in a separate report. The peer exchange was recorded and selected presentation will be made available through the Subcommittee on Asset Management website and the FHWA website.
- 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 joint Subcommittee on Maintenance and Subcommittee on Asset Management meeting scheduled for July 2013 in Vermont. 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 were approved to be moved forward as follows:
  - Estimating the Return on Investment in TAM System and Practices
  - Calculating Target Investment Levels for Preservation of Existing Interstate Highway Assets
  - 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. Please see the attached handout for more information.

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 9th National Conference on Transportation Asset Management.
- Public a video series of the peer exchange on implementing TAM.
- Peer Exchange on Implementing TAM—The subcommittee sponsored a peer exchange that focused on TAM implementation. This peer exchange was in keeping with the strategic plan of the subcommittee to look beyond pavements and bridges.
- NCHRP Project 08-87: Best Practices in GIS-Based Asset Management—The subcommittee will continue to monitor this project that was submitted for consideration by RAC for FY2011 funds and was approved. Cory Pope serves on the panel.
- TRB Asset Management Committee—The subcommittee continues to work closely with the TRB Asset Management Committee.

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.
- 2013 TRB Annual Meeting—The subcommittee will host a smaller mid-year meeting as part of the 2013 TRB Annual Meeting in conjunction with the TRB Asset Management Committee meeting.
- 10th International 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 2013 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 Subcommittee on Asset Management and Subcommittee on Maintenance joint summer meeting.
- 2013 Annual Meeting—In conjunction with the peer exchange mentioned previously, the subcommittee will have an annual meeting in conjunction with the Subcommittee on Maintenance.
- 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.
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, 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; now, therefore be it

Resolved that AASHTO member states are committed to harmonizing permit procedures and requirements between states, among states in regions, and on multi-state corridors; and, be it further

Resolved that by this resolution the AASHTO Board of Directors establishes a truck oversize/overweight permit harmonization initiative to focus initially on the following requirement categories (consistent with the AASHTO Guide for Vehicle Weights and Dimensions):

- Escort Requirements
- Warning Flags
- Warning Lights
- Warning Signs
- Days and Hours of Operation, and 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 provide regular progress reports.
WHEREAS, the AASHTO Board of Directors approved the establishment of a Transportation System Preservation Technical Services Program (TSP-2) in 2005 to support the research, technical, and program needs of the member states in their development and implementation of preservation programs, and

WHEREAS, AASHTO in collaboration with the National Center for Pavement Preservation has successfully implemented said technical services program, to assist states with their preservation efforts including the establishment of regional bridge preservation partnerships, and

WHEREAS, AASHTO SCOM in collaboration with AASHTO SCOBS has adopted an AASHTO Bridge Preservation Strategic Plan as well as roadmap that promotes advancement of the State of the Practice of Bridge Preservation and Maintenance (BPAM) in State DOT’s to optimize the benefits of systematic preservation and maintenance, assess the effectiveness of current strategies, and examine procedures that lead to improved operational performance of highway bridges among member agencies, and

WHEREAS, State departments of transportation and other highway bridge owners are faced with significant challenges in addressing the Nation’s highway bridge preservation needs, and

WHEREAS, The average age of the Nation’s 600,000 bridges is more than 40 years old, and

WHEREAS, A successful highway bridge program seeks a balanced approach to maintenance, rehabilitation, and replacement, and

WHEREAS, A good highway bridge preservation program employs cost effective strategies and actions to maximize the useful life of bridges, and

WHEREAS, Applying appropriate highway bridge preservation treatments and activities at the appropriate time can extend bridge useful life at lower lifetime cost, and

WHEREAS, The Moving Ahead for Progress in the 21st Century (MAP-21) Highway Transportation Bill places emphasis on performance based management principles, data driven risk based program and now, therefore be it

RESOLVED, The AASHTO Highway Subcommittee on Maintenance and the members in attendance express their support for and endorse the use of bridge condition assessment criteria that are based on bridge element level inspection condition information, and, using this element level inspection condition information, allows for classification of bridges under categories that are easily understood by the general public, facilitates the achievement of a state of good repair, and extended service life. Condition categories such as “Good, Fair, and Poor”, or condition based health index, or a grading system, etc.
WHEREAS, The AASHTO Highway Subcommittee on Maintenance has been charged with the responsibility of providing technical leadership, guidance, and support for protecting, preserving, and maintaining of America’s transportation infrastructure assets, and protecting this investment is the highest priority of the maintenance and preservation community, and

WHEREAS, Equipment fleet comprises a significant asset investment and is a large portion of all public works agencies’ budgets and expenditures, and the effectiveness of such equipment fleet operations affects the public works agencies’ ability to adequately perform public works activities and successfully respond to emergency situations, and

WHEREAS, Policy Resolution PR-9-08, Establish a Technical Service Program to Advance Equipment Technology was approved by the AASHTO Board of Directors on October 20, 2008 creating the Equipment Management Technical Services Program (EMTSP) to support and enhance the on-going work and priorities of the AASHTO Highways Subcommittee on Maintenance Equipment Technical Working Group (TWG, and

WHEREAS, At the National Equipment Fleet Management Conference in Mobile, Alabama in June 2012, EMTSP Regional Partnership members voted to recommend adoption and implementation of the equipment fleet performance measures of utilization, preventive maintenance, retention, and availability/ downtime.

WHEREAS, The performance metric of utilization recognizes that tracking and reporting the use of the equipment fleet is necessary to ensure effective and efficient use of State DOT vehicles and equipment. Accurate tracking of utilization allows for informed assessment and assignments of the equipment fleet to meet operational needs, and

WHEREAS, The performance metric of preventive maintenance is a fundamental, planned maintenance activity designed to prolong equipment fleet life and aids in preventing unplanned maintenance and repairs, and preventive maintenance is the foundation of a properly managed equipment fleet and a significant component contributing to all maintenance strategies, and

WHEREAS, The performance metric of retention recognizes that current economic times have resulted in lower levels of funding, and the cost of replacement fleet equipment has been escalating and resulted in a significant decrease in buying power, which have resulted in an immediate and extended impact on the equipment fleet and its life cycles, and it is imperative to sustain the high level of readiness and reliability, which is directly related to the age of fleet equipment, and accordingly the development and implementation of a nationally recognized metric for retention relating to fleet life cycles is essential to maintaining a healthy, economical, and operational equipment fleet, and

WHEREAS, The performance metric of availability/downtime recognizes the importance of assessing the readiness equipment fleet to perform and respond to routine and reactive/emergency response activities, and availability/downtime also reflects an organization’s ability to properly staff personnel and supply resources to accomplish the mission, which can also be reflective of a fleet’s age, utilization, and units beyond established retention periods, and

WHEREAS, State DOT Comparative Performance Measurement: A Progress Report produced by NCHRP Project 20-24 (37)L states that AASHTO and FHWA have been working over the past eight years to identify a set of common transportation performance measures that could be adopted by all states, that these common measures would provide a basis for individual states to view their own performance relative to peer states, and common measures also make it possible to combine information across states to provide a national picture of performance, and

WHEREAS, The United States Congress passed bill H.R. 4348 (i.e. MAP 21) providing support to and requiring national goals and performance management measures, and now, therefore, be it
RESOLVED That the AASHTO Subcommittee on Maintenance expresses their endorsement of the use of the key performance metrics for the equipment fleet of utilization, preventive maintenance, retention, and availability/downtime.
WHEREAS, The AASHTO Highway Subcommittee on Maintenance has been charged with the responsibility of providing technical leadership, guidance and support for protecting, preserving and maintaining of America’s transportation infrastructure assets, and protecting this investment is the highest priority of the maintenance and preservation community, and

WHEREAS, Policy Resolution PR-9-08, Establish a Technical Service Program to Advance Equipment Technology was approved by the AASHTO Board of Directors on October 20, 2008 creating the Equipment Management Technical Services Program (EMTSP) to support and enhance the on-going work and priorities of the AASHTO Highways Subcommittee on Maintenance Equipment Technical Working Group (TWG), and

WHEREAS, At its meeting in July 2009, the Highways Subcommittee on Maintenance met in Annapolis, Maryland and at that time discussed the formation of an oversight panel to guide and direct the activities of the EMTSP, and

WHEREAS, At its meeting in Montgomery, Alabama in February of 2010, the EMSTP Oversight Panel established its strategic plan with the first goal being to establish and support viable regional equipment management partnerships to conduct business and to support and enhance training, technology advancements, networking, and ongoing work and priorities, which was completed in June 2011, and

WHEREAS, At the first EMTSP National Partnership meeting recently held in Mobile, Alabama the issue of national versus regional meetings arose where each region expressed a recognition of the benefits of both meeting regionally and nationally, and

WHEREAS, An objective of this goal is to assist in sustaining the four existing regional partnerships by providing support and leadership to regional partnerships with the scheduling and development of partnership meetings, and

WHEREAS, The required action for completing the objective was to solicit and poll all state DOT equipment managers on identifying frequency and structure of future meetings, and

WHEREAS, An electronic ballot was sent to all designated state equipment managers on July 2, 2012 and voting closed at midnight on July 11, 2012, and

WHEREAS, The ballot proposal states, “The EMTSP Oversight Panel recommends holding a biennial National Meeting beginning in 2014 and lasting 3½ days if budgets allow. The location of the National Meeting shall be rotated among the different regions. The National Meeting will include 12-16 hours dedicated for concurrent regional meetings. Beginning in 2013 and during alternate years, Regional Meetings will be scheduled,” and

WHEREAS, The balloted DOT equipment managers were asked to vote “Yes” or “No” on the ballot proposal, and

WHEREAS, The results of the ballot were recorded with 27 state DOTs voting with the majority of 26 “Yes” (96.3%) votes and 1 “No” (3.7%) vote, and now, therefore, be it

RESOLVED That the AASHTO Subcommittee on Maintenance recognizes the importance of the regional technical services program partnerships and the need for interaction between individual state DOT equipment managers regionally, as well as nationally, and recommends the establishment of biennial National Meetings beginning in 2014 and biennial Regional Meetings beginning in 2013, with the location of the National Meeting being rotated among the four AASHTO regions and including 12-16 hours dedicated for concurrent regional meetings.
WHEREAS, The AASHTO Highway Subcommittee on Maintenance has been charged with the responsibility of providing technical leadership, guidance and support for protecting, preserving and maintaining of America’s transportation infrastructure assets, and protecting this investment is the highest priority of the maintenance and preservation community, and

WHEREAS, Preserving our national highway infrastructure is a high priority for all public agencies and is clearly expressed goal in the recently passed Federal transportation legislation MAP-21; and

WHEREAS, Members of the AASHTO Subcommittee on Maintenance and the entire pavement preservation community have greatly benefited from the regular and frequent interactions that occurred at the Pavement Preservation Expert Task Group (PPETG); and

WHEREAS, The PPETG is the oldest of all FHWA’s Expert Task Groups, and it generally met twice per year from 1992 until 2011, but has not met in 2012; and

WHEREAS, The AASHTO Subcommittee on Maintenance recognizes the value that the FHWA PPETG has brought to the entire pavement community, and to the nation; now, therefore, be it

RESOLVED That the AASHTO Subcommittee on Maintenance expresses support for the Federal Highway Administration’s Pavement Preservation Expert Task Group; be it further

RESOLVED That the AASHTO Subcommittee on Maintenance requests the Standing Committee on Highways to encourage FHWA to continue to hold PPETG meetings at least twice per year.
WHEREAS, The AASHTO member departments support NCHRP for the benefit of advancing our transportation system, and

WHEREAS, The NCHRP is established to be a program focused on developing products for implementation by member DOTs, and

WHEREAS, The member departments’ employees have a part in shaping review and providing expert opinion to assist innovation, and

WHEREAS, AASHTO guidelines and standards are developed and maintained by the member departments for use by the members, be it further

RESOLVED, The AASHTO Highway Subcommittee on Materials commends NCHRP for their support of AASHTO by requiring research products to be provided in AASHTO format for use as AASHTO guidelines or standards, be it further

RESOLVED, The AASHTO Highway Subcommittee on Materials recommends continued support and delivery of AASHTO standards as part of implementation of research projects, be it further

RESOLVED, The AASHTO Highway Subcommittee on Materials requests the Standing Committee on Highways recognize the benefits of these standards and guidelines by calling for AASHTO standards to be used wherever possible by Subcommittees under their purview, be it further

RESOLVED, The AASHTO Highway Subcommittee on Materials requests the Standing Committee on Highways also encourage other AASHTO committees to use AASHTO standards as applicable.
WHEREAS, The AASHTO Subcommittee on Materials (SOM) has responsibility for a wide range of materials and test methods that are instrumental in the construction and maintenance of highway infrastructure; and

WHEREAS, These topics standards and test methods involve a wide range of stakeholders, including state and federal agencies, other governmental organizations, academia; and private industry representatives

WHEREAS, Non-state DOT, private industry, and other partners are represented by private non-profit business associations, i.e. trade and professional associations, but are not a part of the AASHTO organization, nor do they have voting privileges in the committee business; and

WHEREAS, Similar to the AASHTO Special Committee on Wireless Technology, SOM has benefited from the input and participation of its non-AASHTO member partners; and

WHEREAS, To help ensure continued beneficial interactions and participation with stakeholders external to the State DOTs, the SOM seeks to formally acknowledge the participation and contributions of the non-AASHTO member partners that have been actively involved in the subcommittee; and

WHEREAS, SCOH has approved a resolution to request the amendment of the AASHTO Governing Documents to allow representatives of industry partner organizations to serve as non-voting members on the Special Committee on Wireless Technology; now therefore be it

RESOLVED, That the Standing Committee on Highways proposes to allow the inclusion of appropriate non-AASHTO member partners as non-voting members of the Subcommittee on Materials and be it further,

RESOLVED, That SCOH requests that the AASHTO Board of Directors approve an amendment to the AASHTO Governing Documents which will replace the final paragraph in the SOM Charge Statement:

To ensure consistency and the best thinking of the Association, the subcommittee shall work cooperatively, as appropriate with other subcommittees. Representatives from federal agencies, other governmental organizations, academia and private industry representatives may be appointed as non-voting members by the Subcommittee Chair.