AASHTO Standing Committee on Highways

SCOH MEETINGS

Technical: Friday October 14th
Business: Saturday, October 15th

Mackinac Ballroom, Marriott Downtown at the Renaissance Center, Detroit, Michigan
DATE: September 12, 2011  
TO: Members, Standing Committee on Highways  
FROM: King W. Gee, Secretary for SCOH  
Associate Administrator for Infrastructure, FHWA  
SUBJECT: SCOH Meeting Materials – Leading in Lean Times

The Standing Committee on Highways (SCOH) proudly begins its 2011 annual meeting under new leadership. We welcome Paula Hammond, Washington State DOT Secretary of Transportation, as the new SCOH chair and Paul Degges, Tennessee DOT Chief Engineer and SCOH member, as the new SCOH vice-chair.

The American Association of State Highway and Transportation Officials (AASHTO) will hold its 2011 Annual Meeting in Detroit, Michigan. The Standing Committee on Highways (SCOH) technical and business meetings will be held on Friday and Saturday, October 14 and 15, 2011 in the Mackinac Ballroom, Marriott Downtown at the Renaissance Center.

If you are unable to attend the meetings or will be sending a substitute/alternate, please advise Marty Vitale by email (mvitale@aashto.org) as soon as possible.

The SCOH agendas offer several engaging discussions and presentations. We have new guest speakers and suggested round table topics submitted by the SCOH members.

In addition AASHTO will offer conference call capability on Friday and Saturday. If you call on the phone during the meeting times you can participate in conversation and voting on Saturday. Call-in number is 1-866-299-7945 and passcode 4370119#.

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

I and the officers of SCOH look forward to meeting with you in Detroit, Michigan.
STANDING COMMITTEE ON HIGHWAYS (SCOH)

TECHNICAL MEETING PRELIMINARY AGENDA

Detroit, Michigan
Friday, October 14, 2011 8:00 AM – 5:00 PM
Conference Call Number 1-866-299-7945 – Passcode: 4370119#

8:00 AM – 10:00 AM

I. CALL TO ORDER................................................................................................. Vice-Chair Paul Degges, TN

II. INTRODUCTIONS – OPENING REMARKS .................................................. P. Degges
   A. SCOH Members, AASHTO Staff, and Nevada Room Monitors
   B. New AASHTO Engineering Fellow, Tasha Johnson, NC DOT

III. SCOH SUBCOMMITTEE REPORTS (1.5 HOURS)

   A. REPORT AND DISCUSSION
      1. Bridges and Structures ................................................................. Michael Kerley, VA
      2. Construction ................................................................................. Michael Lewis, RI
      3. Design ......................................................................................... Barry Schoch, PA
      4. Highway Transport ...................................................................... Leo Penne, AASHTO
         a. Update on Truck Size and Weight Working Group .................... Ken Sweeney, ME
      5. Maintenance ................................................................................ Carlos Braceras, UT
         a. Safe and Sound Bridge Program ............................................. Dave Nichols, MO
      6. Materials ...................................................................................... Grant Levi, ND
      7. Right-of-Way and Utilities ............................................................ John P. Campbell, TX
      8. Systems Operations and Management ............................................ R. Scott Rawlins, NV
      9. Traffic Engineering ...................................................................... Bernie Arseneau, MN
     10. Asset Management ...................................................................... Ananth Prasad, FL
        a. Report from Highway Infrastructure Health Assessment Workshop .. Butch Wlaschin, FHWA

10:00 AM – BREAK

10:15 AM – 12:00 NOON

IV. SCOH STRATEGIC PLAN LIAISON REPORTS (1.5 HOURS)

   A. REPORT AND DISCUSSION
      1. Freight .......................................................................................... Melinda McGrath, MS
      2. Cutting Fatalities by Half by 2030 .................................................... Tom Cole, ID
      3. Congestion .................................................................................... Scott Rawlins, NV
      4. Climate Change ........................................................................... Rick Land, CA
      5. Performance Management ............................................................. Jerry Younger, KS
      6. Communicating the Value of Transportation .................................. Roger Healy, AK
      7. Research and Emerging Technology ............................................. Ken Sweeney, ME
TECHNICAL MEETING PRELIMINARY AGENDA

8. Workforce Planning and Development .............................................................. TBD
   a. Cross-Training of Construction and Maintenance Staff ..........[Carlos Braceras, UT, to be invited]
9. Project Delivery .................................................................................................. Terry Gibson, NC
10. System Preservation .......................................................................................... John Barton, NC
B. SHRP2 DISCUSSION
   1. Update on SHRP2 .......................................................................................... Ann Brach, TRB
   2. SHRP2 Implementation and the SCOH Strategic Plan ...............Jim McMinimee, AASHTO

12:00 NOON – LUNCH

1:15 PM – 1:45 PM

V. PROPOSED RESOLUTIONS (.5 TO 1 HOUR) – REVIEW RESOLUTIONS TO BALLOT

A. PROPOSED POLICY RESOLUTIONS
   1. Construction ................................................................................................. Michael Lewis, RI
      a. PPR: Support Transportation Curriculum Coordination Council (TCCC)
   2. Maintenance: ................................................................................................. C. Braceras, UT
      a. PPR: Support of Rest Area Conference
      b. PPR: Support Transportation Curriculum Coordination Council (TCCC)
      c. PPR: Adoption of an AASHTO Bridge Preservation Definition
      a. PPR: Support for the Transportation Curriculum Coordination Council
      b. PPR: The Need for the Return of a Comprehensive Materials Course
      c. PPR: Cost Benefit Analysis of Research
   4. Traffic Engineering: ...................................................................................... B. Arseneau, MN
      a. PPR: Recommendation to MUTCD, Section 3A.03 Maintaining Minimum Retroreflectivity of Longitudinal Pavement Markings

B. PROPOSED AMENDMENTS TO THE AASHTO GOVERNING DOCUMENTS
   1. Systems Operation and Management: ...................................................... Scott Rawlins, NV
      a. PAGD: Proposed Amendment to AASHTO Governing Documents “Inclusion of External Stakeholders as Non-voting Members of SSOM

1:45 PM – 3:15 PM

VI. PRESENTATIONS

C. Results of Promising Research ........................................................................ Chris Jenks, TRB
D. States’ Experiences with the Sustainable Highways Self-Evaluation Tool (INVEST)........Bernie Arseneau, MN and Bryan D. Kluchar, NC
E. Long-Term Pavement Performance Program Update ................................TDDB
F. Report from AASHTO-NACE-APWA-FHWA State Aid Workshops ....................Peter Plumeau, Resource Systems Group
G. Demonstration of New AASHTO Digital Publications .................................... Erin Grady, AASHTO
H. AASHTO Technical Service Programs (TSP) Evaluation Process ..............Jim McDonnell, AASHTO

3:15 PM – BREAK

3:30 PM – 5:00 PM

I. ROUND TABLE TOPICS (ATTACHED)................................................................. P. Degges

5:00 PM ADJOURN
AASHTO

East Coast Earthquake and Hurricane Irene: What was your state’s experience? What might AASHTO or SCOH do to assist during these events in the future?

(emergency preparedness and State transportation, widespread evacuations, property damage, flooding, and power outages.)

Florida
Brian Blanchard

Round Table Topics:
- new federal legislation
- doing more with less
- transportation funding and financing
- communicating what funds transportation

Louisiana
Richard L. Savoie

Round Table Topics:
- Contracting out work normally done by DOT forces
- Warranties for materials and workmanship in construction projects.

Michigan
Gregory C. Johnson

Round Table Topics:
- Status of Scan Tours and how SCOH can weigh in on the importance of these.

Vermont
Richard Tetreault

Round Table Topics:
- Every Day Counts - What big wins can states share from the effort?
- Performance Measures - Where are we going with last year’s tabled resolution?
STANDING COMMITTEE ON HIGHWAYS (SCOH)

PRELIMINARY AGENDA

BUSINESS MEETING

DEtroit, Michigan

Saturday, October 15, 2011 8:30 AM – 12:00 Noon

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 Las Vegas, Nevada, May 4, 2011 ............ Secretary King W. Gee, 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 item IV. and V.A. through D. has been acted upon, the items removed will be taken up in order.

IV. Summary of SCOH Ballots from May 2011 to October 2011 (information) ........ Chair Hammond, WA

V. Activity Reports (action)........................................................................................................ Chair Hammond, WA

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

B. Subcommittee

1. Bridges and Structures ......................................................................................... Mal Kerley, VA
2. Construction .......................................................................................................... Michael Lewis, RI
3. Design .................................................................................................................... Barry Schoch, PA
4. Highway Transport ............................................................................................... Leo Penne, AASHTO
5. Maintenance ......................................................................................................... Carlos Braceras, UT
6. Materials .............................................................................................................. Grant Levi, ND
7. Right-of-Way and Utilities ................................................................................... John P. Campbell, TX
8. Systems Operation and Management ............................................................... R. Scott Rawlins, NV
9. Traffic Engineering ............................................................................................... Bernie Arseneau, MN

C. Joint Committee

1. Technology Implementation Group (TIG) .......................................................... Ken Sweeney, ME
2. AASHTO/ACEC ................................................................................................. Paul Mattox, WV
3. SCOP-Asset Management (SCOP/SCOH) ...................................................... Ananth Prasad, FL

D. Special Committee

1. NTPEP Oversight Committee ........................................................................... Christine Reed, IL
2. Special Committee on U.S. Route Numbering ................................................. D.W. Vaughn, AL
3. Special Committee on Wireless Technology ................................................... William A. Brown, VA

AASHTO Annual Meeting 2011, October 13th through October 17th, Detroit, Michigan
VI. Motions — PROPOSED RESOLUTIONS

A. Proposed Policy Resolutions

1. **Construction**
   - Support Transportation Curriculum Coordination Council (TCCC)
   - Michael Lewis, RI

2. **Maintenance**
   - Highway Subcommittee on Maintenance Annual Meeting and the Rest Area Conference
   - Support Transportation Curriculum Coordination Council (TCCC)
   - Adoption of an AASHTO Bridge Preservation Definition
   - C. Braceras, UT

3. **Materials**
   - Support for the Transportation Curriculum Coordination Council
   - Comprehensive Materials Course
   - Cost Benefit Analysis of Research
   - G. Levi, ND

4. **Traffic Engineering**
   - Recommendation to MUTCD, Section 3A.03 Maintaining Minimum Retroreflectivity of Longitudinal Pavement Markings
   - B. Arseneau, MN

B. Proposed Amendments to the AASHTO Governing Documents

1. **Systems Operation and Management**
   - Proposed Amendment to AASHTO Governing Documents,
     “Inclusion of External Stakeholders as Non-voting Members of SSOM
   - Scott Rawlins, NV

VII. Reports

A. NCHRP 20-7
   - Paul Degges, TN, and Chris Jenks, TRB

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

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

D. AASHTO/ACEC Joint Committee
   - Paul Mattox, WV

VIII. Presentations

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

B. FHWA Activities
   - King W. Gee, FHWA

C. Proprietary Products
   - David A. Nicol, FHWA

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

E. Standing Committee on Environment (SCOE) Update
   - Matthew Garrett, OR

F. Climate Change Steering Committee Update
   - Paula Hammond, WA

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

H. National Evaluation of Mileage-Based Road User Charge
   - Paul Hanley, University of Iowa

I. National Results of State Strategic Safety Efforts
   - TBA

IX. Old Business
   - Chair Hammond, WA

X. New Business
   - Chair Hammond, WA

XI. Adjourn
American Association of State Highway and Transportation  
Standing Committee on Highways  
MEETING DATE:____________

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I. Call to Order
Vice Chair Neil Pedersen called the meeting to order at 8:35 a.m. The following states had substitutes in attendance: Alabama, Delaware, Mississippi, New Mexico, New York, Texas, and Utah. Members or substitutes were on the phone from South Carolina, North Carolina, Indiana, and Pennsylvania. The meeting consisted of a quorum of 37 representatives.

II. Roll Call and Minutes from Previous Meeting
Secretary King Gee, FHWA, presented the minutes from the SCOH Meeting in Biloxi, Mississippi, on October 30, 2010. A motion was made to approve minutes. Wyoming made the motion; Virginia seconded. The motion was approved.

A. Introduction of Engineering Fellow from Korea
Jim McDonnell, AASHTO, presented Mr. Chun-Ho Yeom, who is on a one-year engineering fellowship with AASHTO from the Korea Expressway Corporation in Korea.

III. Call for Agenda Amendments
A motion was made to accept the Consent Agenda. Wyoming made the motion; Michigan seconded. The motion was approved.

IV. Summary of SCOH Ballots
A summary of SCOH Ballots from October 2010 to April 2011 was provided to the members as a handout for their information.

V. Work Plans
Committee work plans were provided to the members as a handout for their information. Subcommittees of SCOH include:

- Bridges and Structures, Mal Kerley, VA
- Construction, Michael Lewis, RI
- Design, Rick Land, CA
- Highway Transport, James Lynch, MT
- Maintenance, Carlos Braceras, UT
- Materials, Grant Levi, ND
- Right-of-Way and Utilities, John P. Campbell, TX
- Systems Operation and Management, R. Scott Rawlins, NV
- Traffic Engineering, Del McOmie, WY

Joint Committees include:

- Technology Implementation Group (TIG, Mike Shamma, NY
- AASHTO/ACEC (work plan not necessary, Paul Mattox, WV
- SCOP-Asset Management (SCOP/SCOH), Kirk Steudle, MI

Special Committees include:

- NTPEP Oversight Committee, Christine Reed, IL
- Special Committee on U.S. Route Numbering, D.W. Vaughn, AL
- Special Committee on Wireless Technology, William A. Brown, VA

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

A. PPR: Establish a Special Committee on Workforce Planning & Development
This resolution was presented by Pam Hutton, CO. A motion was made to establish the special committee. Colorado made the motion; California seconded. The motion was approved.
B. PPR: Name Change from Advance Equipment Technology Operations (AETO) to Equipment Management Technical Services Program (EMTSP)
This resolution was presented by Carlos Braceras, UT. A motion was made to approve the name change. Virginia made the motion; Wyoming seconded. The motion was approved.

C. PPR: Toward Zero Deaths
This resolution was presented by Pam Hutton, CO. A motion was made to approve the resolution. Colorado made the motion; Louisiana seconded. The motion was approved.

D. PPR: Change in Name, Oversight, and Scope of the TSP for Safe, Reliable, and Secure Transportation Operations
This resolution was presented by Kelly Hardy, AASHTO. A motion was made to approve the name change. Colorado made the motion; Nevada seconded. The motion was approved.

E. PAGD: Inclusion of Private Industry Associations as Non-Voting Members of the Highways Subcommittee on Systems Operation and Management
This resolution was retracted from consideration by Scott Rawlins, NV, Chair of the Subcommittee on Systems Operation and Management, for additional discussion with AASHTO staff.

F. PPR: Sunset the National Partnership for Highway Quality
This resolution was presented by Paul Degges, TN. A motion was made to approve the resolution. Tennessee made the motion; Mississippi seconded. The motion was approved.

G. Proposal to Increase TIG membership
This resolution was presented by Grant Levi, SD. A motion was made to approve it. New York made the motion; Wyoming seconded. The motion was approved.

VII. Presentations

A. SCOR Update
John Halikowski, AZ, Chair of SCOR, provided an update of their activities. SCOR has met twice since the last SCOH Annual Meeting, most recently in March. SCOR reviewed initial results from two of the 20-83 strategic research initiatives at its December meeting and was pleased with progress: freight scenarios & impacts; climate change. Additional initiatives are anticipated from these 7 projects. SCOR approved $500K to continue support.

The 2012 NCHRP program ballot will be going to the states in mid-May. SCOR reviewed submissions and success of AASHTO proposals; SCOH subcommittees had the most proposals and received the greatest number of funded projects.

NCHRP’s 50th anniversary will be held in June 2012.

B. FHWA Activities
Jeff Paniati, FHWA, acknowledged the partnership with States and that FHWA has a distinct role at the local level and national level with AASHTO committees, especially SCOH. He emphasized that this partnership has grown over the past year with the success of the over 12,000 ARRA projects. He gave thanks to the SCOH members for accomplishing success with tight deadlines and high visibility/scrutiny.

Jeff is hoping to continue to leverage that partnership for the Every Day Counts (EDC) initiative. So far, state response has been great. EDC is working more along the boundaries and demonstrating existing flexibilities. He said he appreciates state efforts in implementation.

USDOT has not yet released a formal bill, but the key provisions were outlined in the Administration’s 2012 Budget.

C. Executive Director’s Report on AASHTO Activities and Reauthorization
John Horsley acknowledged Jim McDonnell’s promotion to replace Ken Kobetsky. John also acknowledged Erik Maninga, MO, and Steve Olson, CO, and thanked both Missouri and Colorado for helping AASHTO. Korea Expressway Corporation’s International fellow, Chun Ho Yeom, and two new additions, Jim McMinimiee (formerly of Utah DOT) as SHRP-2 Implementation Manager, and Lacy Love (formerly of North Carolina DOT) as
Associate Program Director, Operations, were introduced.

John noted AMRL’s $8 million budget and productivity, as well as AASHTOWare’s increase of $2M in revenue to $32 million.

The reauthorization committee met yesterday and updated its 2008 policy positions. Congress could cut the federal surface transportation program by 30%: from the current $42 billion per year down to $28 billion. AASHTO will work with Congress to sustain current levels for as long as possible.

D. FHWA Activities

King Gee provided an update on several ongoing efforts at FHWA including:

- **Every Day Counts:** This initiative is consistent with the President’s efforts on innovation. Ten regional summits were well attended, and FHWA appreciated the DOTs’ enthusiasm and engagement as well as ACEC’s support. The current phase is supporting States in implementing the initiatives.
- **Discretionary Grants Solicitation:** Full year appropriations for 2011 yielded discretionary programs with no earmarks. FHWA will be soliciting for applications for eleven discretionary grant programs on May 6, with applications due to the Division Offices on June 3. The intention is to commit all these funds this year to get them working as soon as possible to provide needed transportation improvements and support economic growth. All States are encouraged to consider the eleven programs and submit applications.
- **MUTCD Rulemaking:** FHWA received much feedback and appreciated Del McOmie’s and AASHTO’s input. Two elements are under consideration for Notices of Proposed Amendment (NPAs) – 1) AASHTO’s concern with the last sentence of the MUTCD definition for “Standard”; and 2) Media attention based on inaccurate information on compliance dates for older devices.
- **Audit Guide and Cost Recovery:** The FHWA Division Offices are being asked to use the Guide to address audit and financial issues. Three comprehensive training courses are being developed with ACEC and AASHTO and will be available in early 2012. DCAA contracted to review findings on unallowable costs.
- **New National Bridge Inspection Program (NBIP) Oversight Protocol:** A new data-driven and risk-based process for oversight of the National Bridge Inspection Program was posted in February 2011. It is based on objective data and statistical sampling in response to external feedback and criticism. It will remain open to receive feedback for fine-tuning, but also may require law change.
- **SHRP-2 Deployment:** Congress has provided funding for FHWA to implement SHRP-2 products, and FHWA is working with TRB and AASHTO to coordinate.
- **Proprietary Products:** An AASHTO resolution and ARTBA/AGC concerns were taken seriously, and current regulations were re-examined to clarify whether Q&As should be updated and what actions should be required for Public Interest Findings (PIFs) and certifications. FHWA may be considering regulatory changes to promote innovation and competition.
- **Regulatory Review:** FHWA appreciates AASHTO and the States for responding to USDOT’s regulatory review. Numerous comments were received, and we are working through them.
- **Performance Management:** FHWA has started to take specific organizational actions to better position themselves to support the States in developing and adopting performance management practices.

VIII. Reports and Presentations

A. NCHRP 20-7

Chris Jenks, TRB, reported that $1.2 million in 2012 funds was provided to the NCHRP 20-7 program by SCOR. Nine projects were selected by the 20-7 panel at this meeting, for a total of $625,000.

A motion was made to approve it the selected projects. Virginia made the motion; Wyoming seconded. The motion was approved.

B. Special Committee on U.S. Route Numbering

Ken Sweeney, ME, reported that 33 proposals from 16 states were received. 20 were approved, and 11 were approved conditionally when open to traffic. Conditions related to clarification of bike routes for Alaska have been met.
A motion was made to approve the report. Maine made the motion; Georgia seconded. The motion was approved.

C. ACEC-AASHTO Joint Committee
Marvin Murphy, WV, reported that the joint committee covered numerous topics, including: reauthorization and sensitivity of advocacy positions because of the changing positions in Congress; garnering support for reauthorization; changes to local match; managing programs in tight times and the role of consultants; rephrasing of communications on transportation to garner public support; concerns with negotiating direct costs/salaries as they relate to the AASHTO Audit Guide and FHWA’s Q&As on consultant services. The joint committee gave an open invitation to members of SCOH to attend their next meeting.

D. Special Committee on International Activity Coordination
Marty Vitale, AASHTO, provided a report on international activities. A matrix of scans for 2011 was provided. It was noted that the precast concrete pavements scan will be postponed due to the Japan earthquake/tsunami. Four 2012 scans have been approved: Climate Change Adaptation, Alternative Revenue Options, Multi-modal Transportation on Highway Bridges; and Law and Fire Integration for Highway Incidents. AASHTO co-chairs have been identified, awaiting announcement of FHWA co-chairs.

The PIARC World Road Congress will be held in fall 2011. IRF opportunities were also noted.

E. Standing Committee on Performance Management (SCOPM)
Steve Simmons, TX, reported on the Standing Committee on Performance Management. Susan Martinovich, NV, AASHTO President, announced that Kevin Keith, MO, will replace Kirk Steudle, MI, as chair of SCOPM. Jeff Paniati reported on changes in HIPM, and Butch Wlaschin reported on changes in HIPAT; Mary Lynn Tischer discussed a new training course, and Gloria Shepherd discussed a new performance-based planning matrix.

F. Standing Committee on Highway Traffic Safety (SCOHTS)
Pam Hutton, CO, reported that SCOHTS is taking a strategic plan to the AASHTO Board of Directors for approval so that an implementation plan can be finalized. The “Toward Zero Deaths” Resolution will also go to the Board of Directors. Tomorrow, SCOHTS is sponsoring a Safety Leadership Forum for CEOs, to include the TZD strategy. The Safety Leadership lunch is to be keynoted by Victor Mendez.

G. Transportation Association Canada (TAC)
Greg Johnson, MI, AASHTO liaison to TAC, gave an overview of TAC and the engineers’ council. The council includes private representatives (e.g., ACEC, ITS-Canada), structure and committees. Recent highlighted topics include: Vancouver’s Transportation Transformation; non-motorized issues; climate change adaptation; Ontario’s updating of rain intensity curves; Edmonton’s reconstruction of a bridge in an environmentally sustainable manner. It was noted that TAC’s research priorities have overlap with AASHTO efforts.

H. AASHTO Technical Service Programs (TSP)
Keith Platte, AASHTO, gave a status report on the AASHTO TSPs. Participation for FY 11 is at the same level as FY2010, but not as high as 2008 (see handout). Expansion of the number of TSPs may have diluted state participation. There are three possible options to address this occurrence: review need for the TSPs every three years; develop performance measurements for the TSPs; or continue with business as usual.

Comments from the states included the following:
   IL: NTPEP will be reviewed every three years and, thus, I support a similar review for the TSPs.
   TN: TSPs should report cyclically.
   MD: Consider similar reviews for standing committees every three years.
   Tony Kane: We will look into performance measurements and three-year reviews.
   MD: A significant portion of the budget seems to be supporting travel for member department representatives at TSP meetings, so I recommend reviewing such travel.
   Jim McDonnell: Peer-to-peer activities are essential to some TSPs, but we will report more details at the next meeting.

I. AASHTOWare Program Update
Jan Edwards, Director of the AASHTOWare Program, reported the AASHTOWare is the largest revenue source in the AASHTO budget. She reviewed the benefits of the program, including the development of software by and for the member states to manage their programs. It was started in the 1980s and has grown to seven products
covering the breadth of State DOT work. There are 300 state DOT volunteers and a full-time staff of 7. All states use at least one AASHTOWare product. The recent economic downturn has affected state participation, but it’s a fully self-supporting program through annual license fees. New projects, DarwinME and TurboRelocation, were released on April 29 and November 10, respectively.

Comments from the states included the following:
- **FL**: Expressed concerns with delays in TransPort module development.
- **Jan Edwards**: The software developer started using a new software development tool that takes more time, while incremental module development takes more money.
- **CO**: Will Construction and Materials that will replace SiteManager handle design-build better? FL and UT have generated workarounds with SiteManager to handle D-B billing needs and the new module should incorporate D-B needs.

**J. AASHTO Accreditation Program**
Steve Lenker, AMRL, reported on the AASHTO Accreditation Program, which was created in 1988 to accredit labs because of the need for more detailed review. All direction and accreditation decisions are made by State DOT staff people. Among the $8 million budget, only 1/8 of budget is contributed through State sponsorship.

The AMRL and CCRL process requires observation of lab procedures. There are 1,521 labs accredited as of today; the largest number being in CA – 216 labs. There are also new online tools for specifiers to monitor a large number of labs and be alerted when a lab’s accreditation changes. We welcome ideas on how AMRL can better serve the member Departments.

- **ND**: Requested an update of other accreditation bodies.
- **Steve Lenker**: Two new bodies are likely to be recognized by NACLA to be able to accredit materials and construction labs. AMRL will meet and beat the competition. These two new organizations will likely approach state DOTs to sponsor them, but note that state sponsorship of AMRL also supports the AASHTO Subcommittee on Materials.
- **ND**: Voiced concern about the quality of competitor accreditation.

**IX. Old Business**
None

**X. New Business**

**A. Announcement - AASHTO Engineering Fellow for 2011-2012**
Jim McDonnell, AASHTO, recognized the two AASHTO Engineering fellows from MO and CO. There are seven applications for the fellowship, including California, North Carolina, Georgia, Massachusetts, and Texas; two states asked for extensions for two more applications. The selection will be done in the next 2-3 weeks.

**B. Work Zone Safety Workshop**
Marty Vitale, AASHTO, noted that there will be a workshop in Pittsburgh in conjunction with the IBC (1-1/2 day) through June 7-8. The May 9th deadline is looming. Applications will need SCOH member endorsement. There are a couple of applications in process.

**C. Continuation of Round Table Discussions**
- **Vice Chair**: Noted that the transition from Ken Kobetsky to Jim McDonnell has been seamless and acknowledged AASHTO Staff.
- **TX**: Conveyed message from Amadeo Saenz regarding his appreciation for the SCOH members, as a former member and outgoing chair. He also thanked AASHTO staff.
- **Vice Chair**: Thanked King Gee and FHWA for support and partnership on various subcommittees.

**Roundtable Discussions**: Downsizing of state personnel was the primary topic of conversation

**XI. Adjourn**
A motion was made to adjourn meeting. Texas made the motion; Oregon seconded. The motion was approved. The vice chair adjourned the meeting at 11:10 a.m.
<table>
<thead>
<tr>
<th>Due Date</th>
<th>Ballot Number</th>
<th>Title and Description</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>The scope of these Guide Specifications covers seismic design for typical bridge types and applies to non-critical and non-essential bridges. The title of the document reflects the fact that the Guide Specifications are approved as an alternate to the seismic provisions in the AASHTO LRFD Bridge Design Specifications. These Guide Specifications differ from the current procedures in the LRFD Specifications in the use of displacement-based design procedures, instead of the traditional, force-based &quot;R-Factor&quot; method. This document supersedes the 2009 First Edition and its 2010 interim.</td>
<td>Negative: 0 of 52</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No Vote: 14 of 52</td>
</tr>
<tr>
<td>09/01/2011</td>
<td>HW-11-12</td>
<td><strong>Bridge Security Guidelines</strong></td>
<td>Affirmative: 36 of 52</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The document provides the designer with information on the response of concrete bridge columns subjected to blast loads as well as blast-resistant design and detailing guidelines and analytical models of blast load distribution, although, it is not the end-all answer to every question that exists on this subject. In contrast, this guideline document and its research shall be considered as the stepping stone toward the education this subject truly deserves and shall receive in future years. The content of this guideline should be considered in situations where resisting blast loads are deemed warranted by the owner or designer. In such situations, blast load shall be applied in combination with all other applicable loads and other factors should be considered, such as the possibility of scour as well as intentional vessel collision.</td>
<td>Negative: 2 of 52</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No Vote: 14 of 52</td>
</tr>
<tr>
<td>08/10/2011</td>
<td>HW-11-11</td>
<td><strong>Draft AASHTO Response on Shared Use Path ANPRM to the U.S. Access Board</strong></td>
<td>Affirmative: 44 of 52</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SCOH was sent a draft response to the U.S. Access Board on ANPRM Shared Use Path Accessibility Guidelines for your review and comment.</td>
<td>Negative: 0 of 52</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No Vote: 8 of 52</td>
</tr>
<tr>
<td>07/25/2011</td>
<td>HW-11-10</td>
<td><strong>Docket No. FHWA-2011-0046 NPRM for Value Engineering</strong> – contingent upon review by the Subcommittee on Design.</td>
<td>No comments received</td>
</tr>
<tr>
<td>08/11/2011</td>
<td>HW-11-09</td>
<td><strong>SURVEY SCOH 2011 Annual Meeting</strong></td>
<td>Responses: 33 of 52</td>
</tr>
</tbody>
</table>
### Summary of SCOH Ballots from May 2011 to October 2011

<table>
<thead>
<tr>
<th>Due Date</th>
<th>Ballot Number</th>
<th>Title and Description</th>
<th>Count</th>
</tr>
</thead>
</table>
| 06/10/2011 | HW-11-08      | **Roadside Design Guide**  
This document has updated and revised by the Subcommittee on Design Technical Committee on Road Side Safety. Each chapter was voted on and passed by the Subcommittee on Design back in December of 2010 | Affirmative: 41 of 52  
Negative: 1 of 52  
No Vote: 10 of 52 |
| 05/23/2011 | HW-11-07      | **Professional Services Contract Procurement Survey**  
Survey Question: *How long does it take to procure a professional consultant contract from the time you give it to your PM to the execution of the contract?* | Responses: 15 of 52 |
| 05/13/2011 | HW-11-06      | **Consultant Procurement Regulations**  
AASHTO asked for concurrence on comments that AASHTO needed to submit to FHWA on draft Q&A that FHWA released in April/May 2011 that relates to each member department's consultant procurement regulations. | Affirmative: 31 of 52  
Negative: 0 of 52  
Affirmative With Condition: 2 of 52  
No Vote: 19 of 52 |
<table>
<thead>
<tr>
<th>SCOH COMMITTEES</th>
<th>FUTURE MEETING INFORMATION</th>
</tr>
</thead>
</table>
| **HIGHWAYS SUBCOMMITTEE ON BRIDGES AND STRUCTURES (SCOBS)**                      | Austin, Texas from July 8 – 12, 2012  
Future meetings of the Subcommittee have been scheduled in the following states:  2013 in Oregon and 2014 in Ohio.                                                                                                           |
| **HIGHWAYS SUBCOMMITTEE ON CONSTRUCTION (SOC)**                                 | Burlington, Vermont in August 2012                                                                                                                                                                                        |
| **HIGHWAYS SUBCOMMITTEE ON DESIGN**                                            | St. Louis, *Missouri in 2012*                                                                                                                                                                                             |
| **HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT**                                 | Milwaukee, Wisconsin 2012 Annual Meeting                                                                                                                                                                                    |
| **HIGHWAYS SUBCOMMITTEE ON MAINTENANCE**                                       | Seattle, Washington from July 14– 19, 2012  
The 2012 Subcommittee on Maintenance will be meeting jointly with TRB Maintenance and Preservation Committees                                                                                                         |
| **HIGHWAYS SUBCOMMITTEE ON MATERIALS**                                         | Biloxi, MS from August 5 to 10, 2012                                                                                                                                                                                      |
| **HIGHWAY SUBCOMMITTEE ON RIGHT-OF-WAY AND UTILITIES**                         | Portland, Oregon from April 29 – May 03, 2012                                                                                                                                                                              |
| **HIGHWAYS SUBCOMMITTEE ON SYSTEMS OPERATIONS AND MANAGEMENT (SSOM)**          | Orlando, Florida on October 19, 2011 with the 18th World Congress meeting of ITS                                                                                                                                               |
| **HIGHWAYS SUBCOMMITTEE ON TRAFFIC ENGINEERING**                              | Orlando, Florida in the spring of 2012  
Meets jointly with National Committee on Uniform Traffic Control Devices                                                                                                                                                       |
| **TECHNOLOGY IMPLEMENTATION GROUP**                                           | Traverse City Michigan in May 2012,                                                                                                                                                                                        |
| **NTPEP OVERSIGHT COMMITTEE**                                                  | Indianapolis, Indiana from May 6 through May 11, 2012                                                                                                                                                                     |
| **SCOP-ASSET MANAGEMENT (SCOP/SCOH)**                                          | 2012 TRB Annual Meeting—The subcommittee will host a smaller mid-year meeting as part of the 2012 TRB Annual Meeting in conjunction with the TRB Asset Management Committee meeting.                                                                 |
|                                                                                | 2012 Annual Meeting: The peer exchange will take place in conjunction with the 9th International Conference on Transportation Asset Management.                                                                                                                                         |
| **SPECIAL COMMITTEE ON US ROUTE NUMBERING**                                    | Traverse City Michigan in May 2012,                                                                                                                                                                                         |
| **SPECIAL COMMITTEE ON WIRELESS COMMUNICATIONS TECHNOLOGIES (SCOWCT)**         | Irvine, California, August 2012  
The 2012 Committee meeting is scheduled to be conducted jointly with the Special Committee on Transportation Security and Emergency Management, SCOTSEM, in                                                                                      |
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<td>HIGHWAYS SUBCOMMITTEE ON CONSTRUCTION (SOC)</td>
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<td>HIGHWAYS SUBCOMMITTEE ON DESIGN</td>
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<td>HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT</td>
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<td>TECHNOLOGY IMPLEMENTATION GROUP</td>
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<td>NTPEP OVERSIGHT COMMITTEE</td>
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<td>SCOP-ASSET MANAGEMENT (SCOP/SCOH)</td>
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<td>SPECIAL COMMITTEE ON US ROUTE NUMBERING</td>
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<tr>
<td>SPECIAL COMMITTEE ON WIRELESS COMMUNICATIONS TECHNOLOGIES (SCOWCT)</td>
<td>26</td>
</tr>
</tbody>
</table>
HIGHWAYS SUBCOMMITTEE ON BRIDGES AND STRUCTURES (SCOBS)

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

Summary of Activities and Accomplishments:

The 2011 Annual Meeting of the AASHTO Subcommittee on Bridges and Structures (SCOBS) was held in Norfolk, Virginia on May 15-19, 2011. 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 Mr. Philip A. Shucet, President and CEO Hampton Roads Transit.

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 83 technical agenda items.

The Subcommittee has addressed recommendations H-08-21, H-08-22, H-08-24, and H-08-25 from National Transport Safety Board (NTSB) concerning the I35W accident. The remaining two outstanding recommendations are; to develop and implement a “Bridge Design Quality Assurance/Quality Control Program” (H-08-20); and to update the “Manual of Bridge Evaluation” after the joint research study on gusset plate become available (H-08-23). FHWA has submitted the draft document on “Guidance on Quality Control and Quality Assurance (QC/QA) in Bridge Design” to AASHTO. This document is going through a final review by the full committee and after its approval it will most likely be added as an appendix to an existing AASHTO document titled: AASHTO Guide to Quality in Preconstruction Engineering (2003). 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 two-year 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.

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 strategic plan developed by Subcommittee on Highways (SCOH) and prioritizing the publication of the specifications and other documents.

The committee discussed the FHWA’s new 23 metric NBIS Compliance Review process. The new approach will allow FHWA to more clearly and easily identify bridge issues in each state. Previously, FHWA prepared a written assessment of a particular state’s bridge inspection program based on the outcome of a general review of key inspection areas. Under the new process, FHWA will replace the narrative with an actual grid of 23 specific inspection program areas to identify potential safety challenges more easily. The committee will work with FHWA for its effective implementation.

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 components and systems), and rapid foundation excavation and construction technologies 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 Austin, Texas on July 8 – 12, 2012. Other future meetings of the Subcommittee have been scheduled in the following states: 2013 in Oregon and 2014 in Ohio.

**Schedule on New/Recent/Updated Publications**

Below is a table showing the publication status as of July 14, 2011:

<table>
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<tr>
<th>Pub Code</th>
<th>Title</th>
<th>Current Status</th>
<th>Tech Review</th>
<th>To Press</th>
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<tr>
<td>BWC-6-I1</td>
<td>2011 AASHTO Interim Revisions to Bridge Welding Code</td>
<td>Tech rev.</td>
<td>Queries out 7/8</td>
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<tr>
<td>MBE-2-I1</td>
<td>2011 Interim Revisions to the Manual for Bridge Evaluation, 2nd Edition</td>
<td>In prod. est. 7/18</td>
<td></td>
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<tr>
<td>L RDFDCONS-3-I2</td>
<td>2010 Interim Revisions to AASHTO LRFD Bridge Construction Specifications, 3rd Edition</td>
<td>Tech rev.</td>
<td>Queries out 7/7</td>
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<tr>
<td>L RDFDUS-6</td>
<td>AASHTO LRFD Bridge Design Specifications, 6th Edition</td>
<td>In prod. est. 7/15</td>
<td></td>
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<tr>
<td>BSG-1</td>
<td>Bridge Security Guidelines, 1st Edition</td>
<td>In prod.— Editorial</td>
<td>Queries out est. 7/18</td>
<td></td>
</tr>
<tr>
<td>NSBASGBS-1</td>
<td>AASHTO–NSBA Guidelines for Steel Girder Bridge Analysis</td>
<td>Printing</td>
<td>(responses in and tech edits complete)</td>
<td>7/5</td>
</tr>
</tbody>
</table>
HIGHWAYS SUBCOMMITTEE ON CONSTRUCTION (SOC)

Officers

Chair: Mike Lewis, RIDOT
Vice Chair: Claude Oie, NDOR
Secretary: Butch Wlaschin, FHWA
AASHTO Liaison: Greta Smith, AASHTO

General

1. Annual meeting was held in Virginia Beach, Virginia, July 31 – August 4, 2011. There were 39 states represented at the conference.
2. Topics included the international company Colas’ experience with a 25-year design, build, finance, operate and maintain contract in Portsmouth, England to road building in Afghanistan. At the request of Peter A. DeFazio, ranking member, House Committee on Transportation and Infrastructure, Subcommittee on Highways and Transit - GAO initiated a special group discussion on how FHWA conducts oversight of States, the relationship between FHWA Division offices and State DOT’s, and how the two parties work together to forward the highway program. (see attached letter)
3. The SOC continues to participate in expert task groups, national task force, FHWA, AASHTO, industry and other joint committees.
4. A task force was set up to develop a strategic plan for the SOC.
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. As suggested in Synthesis 315, the Section members solicited input from Florida, Ohio, and California on overhead procedures and completed a short paper that provides an overview of the revisions and procedures now in use by these three states.
2. Completed survey on Escrow of Bid Documents Procedures. Dennis Largent presented the survey results at the CA Section Meeting on August 1, 2011.
3. Retainage Issues and Contract Administration. Mr. Yakowenko sent an e-mail to all SOC members asking them to complete a short questionnaire regarding retainage issues.

Computers and Technology Section

Accomplishments

1. Continued to provide information to AASHTO SOC website including the results from three surveys conducted as part of the 2009 – 2010 Work Plan (“Construction Cost Containment,” “Construction Document Management Systems,” and “Greenhouse Gas Reduction Strategies”).
2. Continued to provide leadership and guidance for enhancements of the AASHTO Trns,Port software suite with emphasis on the Civil Rights and Labor.
3. Developed draft quick reference guide to assist States with automated machine guidance (AMG) preconstruction requirements, construction specifications, data exchange protocol.
4. Explored innovative technologies related to transportation construction (e.g., Bentley® and Autodesk® design and software suites), Building Information Modeling (BIM). Laser video testing of pipe, electronic construction data collection.
5. Conducted survey of State DOT’s on project scheduling software programs in use.

Roadway & Structure Section

Accomplishments

1. Completed a white paper entitled “Improving Inspection for Construction Quality Assurance.”
2. Developed requirements for IRI to be incorporated into the construction guide specifications.
3. Developed guidelines for projects utilizing performance contracting.
4. A survey was completed on cracking in pre-stressed girders.
5. Best practices for preventing cracking in mass pour concrete structures were identified.
6. Reviewed States’ use of safety edge with a goal to develop a guide specification.
7. A presentation was delivered on best practices on steel erection for drilled shafts.

Environment and Human Resources Section
Accomplishments

1. Completed a survey on Tracking Recycling. How much is going where? Who is managing, monitoring, and tracking their recycling and what are they doing with it?
2. Completed a survey on top ten environmental concerns of member States.
3. Completed survey on handling ADA ramps and temporary condition while under construction.
4. Participate on pilot panel for a new National Highway Institute (HRI) class on “Environmental Factors in Construction.”

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"
   NCHRP 20-05/Topic 43-13 "Forecasting Construction Staffing Requirements for Future Projects"

2. Two (2) new research problem statements were considered and approved for submission to NCHRP by the Subcommittee on Construction during the 2011 Annual meeting in Virginia:
   Integrating Sustainable Practices and/or Requirements into Construction Activities (Priority 1)
   Guidebook for Best-Value Procurement (Priority 2)
**Officers**

- **Chair:** Barry Schoch, Pennsylvania
- **Vice Chair:** Richard Land, California
- **Secretary:** David Nichol, FHWA
- **AASHTO Liaison:** Keith Platte, AASHTO

**Annual Meeting**

The Subcommittee on Design (SCOD) held a joint annual meeting with the Subcommittee on Right of Way and Utilities in St. Louis Missouri on May 8-13, 2011.

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

**TC on Cost Estimating**

- **Completed Tasks/Activities**
  - 2010 Annual meeting held October 2010 in Baton Rouge, LA; meeting minutes posted on AASHTO SCOD, TCCE webpage
  - 2010 Annual Transportation Estimators Association workshop attended by many TCCE members also October 2010 in Baton Rouge, LA
  - Research project completed: 20-07, Task 274 – Price Indexing in Transportation Construction Contracts
  - Compilation of survey results completed; State estimating contacts and resources links developed
  - Established SharePoint site for sharing documents, meeting minutes, and discussions
  - Bimonthly conference calls; meeting minutes posted on the TCCE webpage
  - New members: Region 1 - Alan Ellis replaced Mike Fowler (both Vermont); Region 3 – Kenny Voss (Missouri) filled an earlier vacancy

- **Tasks/Activities Underway**
  - Research project under development with expected completion early 2012: 20-07, Tasks 278 and 308 – Production of the new AASHTO “Practical Guide to Estimating”
  - Updating and improving content and layout of Cost Estimating website within the AASHTO Subcommittee on Design website

- **Future Events**
  - 2011 Annual meeting: September 20-21, 2011; Bloomington, MN
  - 2011 Annual Transportation Estimators Association workshop will be attended by many TCCE members September 22-23, 2011; Bloomington, MN
  - Bimonthly conference calls; meeting minutes will be posted on the TCCE webpage
  - Two vacancies anticipated (Region 3 - Missouri, due to promotion, and Region 2 - South Carolina, due to lack of participation)
  - Completion of new “Practical Guide for Estimating” to be ready for balloting in early to mid 2012

**TC on Environmental Design**

**TC on Geometric Design**

**JTC on Electronic Data Engineering**

**TC on Non-Motorized Transportation**

**TC on Preconstruction Engineering Management**

**TC on Roadway Lighting**

**TC on Roadside Safety**

- **Completed Tasks/Activities**
  - Met in September, 2010, 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 14-16, 2011 in Rapid City, South Dakota
- TCRS Subcommittee to develop process for addressing NCHRP 350 hardware failing MASH criteria

JTC on Value Engineering
- Completed Tasks/Activities
  - The AASHTO VE technical committee has conducted 8 meetings over the past year using live-meeting. Several of the meetings were related to planning for the 2011 AASHTO VE Peer Exchange Workshop which is going to be held on September 18-21, 2011 in New Orleans. A peer exchange planning committee conducted numerous meetings to plan for the upcoming peer exchange. The following is a bulleted list of other items that the TC completed:
    - Assisted in the development of the new NHI VE course
      1. Provided expertise to assist with the development and review of the VE course
      2. VE technical committee members participated in the pilot course to provide expert input
      3. Monitored current work plan and developed draft future work plan
    - Submitted 1 NCHRP project proposal
    - Reviewed and selected the 2011 AASHTO VE award winners
    - Formed sub-committee to assist AASHTO in providing comments on FHWA’s proposed rule making effort related to VE regulation 23 CFR 627
- Future Events
  - Here are some future events planned for our TC:
    - 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
    - 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
  - (Fall 2010 – Joint meeting of TCHH, TRB AFB 60, and FHWA National Hydraulics Engineering Conference – in person meeting (Agenda in Appendix)
  - Spring 2011 – Teleconference providing discussion of current issues and manuals (Agenda in Appendix)
- Future Events
  - 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.
  - Development of 20-07 research project requests
  - 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.
  - 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 St. Louis, Missouri in 2011.
HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT

Officers
Chair: TBA
Vice-Chair: Jeff Honefanger, Ohio
Secretary: Mike Onder, FHWA
AASHTO Liaison: Leo Penne

SCOHT Annual Meeting: San Antonio, Texas

The Subcommittee on Highway Transport, AASHTO’s trucking committee, met in San Antonio, Texas, in June of this year. The meeting was hosted and organized by the Texas DOT and the participants were welcomed by the Texas DOT Executive Director Amadeo Saenz. Jim Lynch, Director of the Montana DOT and Chair of SCOHT offered opening remarks from Montana where he was involved in the severe eastern Montana floods. (Mr. Lynch has subsequently resigned.) Jeff Honefanger, Ohio DOT, Vice-Chair of SCOHT, presided for the duration of the meeting. The meeting had strong participation from both the member states, the trucking industry, commercial vehicle service providers, and consultants and researchers. Total registration exceeded 80.

FHWA and FMCSA provided briefings on their priority commercial vehicle activities. The Agenda also included sessions on: regional permitting and harmonization of oversize/overweight requirements; facilitating the movement of superloads in the wind power and steel industries; escort services; emergency response; and, new technology in the trucking industry.

Carol Davis, Texas DOT, briefed the attendees on the new “TxPROS” system for optimizing permitting and routing for oversize/overweight vehicles.

The Subcommittee carried a successful and fun “speed networking” session with the industry participants.

Two sessions focusing on truck size and weight were also provided as webinars to the members of the AASHTO Truck Size and Weight Working Group. In one of these: Peter Lynch described how Wisconsin had carried out its truck size and weight study focusing on lessons for other states; Donald Ludlow, Cambridge Systematics, discussed the elements of a standardized approach that states could use to assess proposals for changes in truck size and weight; and, Mark Berndt, Wilbur Smith Associates, offered a case for developing performance specifications for trucks consistent with AASHTO highway design specifications.

In the other webinar session: Jodi Carson, Texas Transportation Institute, briefed the attendees on the status of the Directory of Significant Truck Size and Weight Research (NCHRP 20-07 Task 303) which will provide an accessible summary of the leading truck size and weight organized in the major issue areas and will be available this fall; Rob Harrison, University of Texas Austin, provided an overview of the extensive amount of truck size and weight research conducted by UT; and, Dr. Jose Weissman, University of Texas San Antonio, made a presentation on research concerning truck weight and Texas bridges and road pavement.

Preceding the Annual Meeting a half day Peer-to-Peer Workshop on Regional Permitting was conducted, made possible with the support of FHWA. It focused on permitting within and between the western and southeastern regions. Recommendations from the workshop were later incorporated into the Subcommittee’s work plan. Also preceding the Subcommittee meeting, the TRB Committee on Truck Size and Weight met.

The Subcommittee developed and reaffirmed a list of action items for the coming year. These include (detail available in SCOHT work plan):

- Bridge hits by commercial vehicles.
- Harmonization of oversize/overweight requirements.
- Coordinating permitting processes with local governments.
- Addressing the problem of new fire apparatus too heavy for local bridges.
• 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.
• Working with the AASHTO Standing Committee on Rail to improve procedures to prevent rail-truck crashes.
• Formation state-industry group advisory group for the movement of wind power equipment.
• 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

The AASHTO Truck Size and Weight Working Group

The AASHTO Truck Size and Weight Working Group was established by the Board of Directors at its 2010 Annual
Meeting. The working group includes representatives of a number SCOHT subcommittees and other AASHTO standing
Committees. It is charged with providing a unified view of proposals for changing federal truck size and weight limits.

Background materials have been prepared and distributed. Four webinar meetings have been held. A report was
made at the 2011 AASHTO Spring Meeting. A status report will be made at the 2011 Annual Meeting. The Working
Group has been tasked with developing a workshop on truck size and weight for the Board of Directors Spring 2012
meeting.

Coordinated Size and Weight Enforcement

The implementation of the European Size and Weight Scan was completed with a report on state and regional
workshops conducted in the past two years.

Reauthorization Policy

SCOHT staff and members have monitored activity on reauthorization related to commercial vehicles and commented
on bill drafts.

Future meetings:

• The 2012 Annual Meeting will be held in Milwaukee, Wisconsin.
OFFICERS:
Chair: Carlos Braceras, UT DOT
Vice Chair: Chris Christopher, WA DOT
Vice Chair: Jennifer Brandenburg, NC DOT
Secretary: Bryan Cawley, FHWA
Assistant Secretary: William Beatty, FHWA
Liaison: Lacy Love, AASHTO

SUMMARY OF ACTIVITIES AND ACCOMPLISHMENTS TO DATE

- The new NHI training course on "Maintenance Leadership Academy" has been completed and is scheduled to be delivered in Utah in Spring 2012.

- The new NHI Training Course, "Performance-based Contracting for Maintenance" is complete and is available to be scheduled thru the NHI office.

- Work is complete on NCHRP Project 692 “Decision Making for Outsourcing and Privatization of Vehicle and Equipment Fleet Maintenance” and is ready to be balloted for consideration as an AASHTO publication.

- Work is complete on NCHRP Project 680 “Manual for Emulsion-Based Chip Seals for Pavement Preservation” and is ready to be balloted for consideration as an AASHTO publication.

- Work is complete on NCHRP Project 668 “Framework for a National Database for Maintenance Actions on Highway Bridges” and is ready to be balloted for consideration as an AASHTO publication.

- The Advanced Technical Equipment Operations (ATEO) has been renamed to the Equipment Management Technical Services Program (EMTSP).

- The 2011 AASHTO Equipment Reference Book has been updated and is posted on Subcommittee website.

- The SCOM in conjunction with SCOBS has passed a resolution for adoption of a formal definition of Bridge Preservation.

- The SCOM passed a resolution requesting the AASHTO Board of Directors to encourage member departments to contribute to the Transportation Curriculum Coordination Council (TCCC) pooled fund.

- The SCOM agreed to periodically meet concurrently with the Rest Area Conference so that the two groups can better exchange ideas and foster interest in mutual programs.

ANNUAL MEETING

The 2012 Subcommittee on Maintenance will be meeting jointly with TRB Maintenance and Preservation Committees in Seattle, Washington from July 14–19, 2012.
HIGHWAYS SUBCOMMITTEE ON MATERIALS

Subcommittee: Materials
Chair: Grant Levi, North Dakota
Vice-Chair: Mark Felag, Rhode Island
Secretary: Jack Springer, FHWA
AASHTO Liaison: Greta Smith and Jim McDonnell

Summary of Activities and Accomplishments from October 2010 to October 2011:

The SOM held its 97th Annual Meeting in Burlington, VT on July 31 to August 5, 2011. 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 meeting. The first major item evolves around the AASHTO/ASTM relationship. AASHTO and members of the SOM have been in discussions with ATSM as to how ownership of standards should be handled by the 2 organizations. There is still no agreement between the two organizations. The second item was brought up by Grant Levi and it was the cost/benefit of research. After much discussion it was decided to submit a resolution that asks that a cost/benefit analysis be conducted on research findings before implementation. The third major item that was discussed was the results of the survey conducted to assess the operation of the SOM. There were a number of recommendations made by the consultant whom conducted the survey. The SOM will begin implementation of many of these recommendations this year.

Representatives from 41 States plus NCHRP, academia and industry participated in the meeting. As in the past, the FHWA headquarters and field office Materials Engineers met concurrently with the SOM and participated in the Roundtable and Technical Section meetings. Bill Ahearn from Vermont DOT was nominated and approved to be the Region I Vice-Chairman and Cole Mullis from the Oregon DOT was nominated and approved to be the Region IV Vice-Chairman, filling the vacancy that occurred when Jeff Miles from Idaho retired. SOM Achievement Awards were presented to the AASHTO-ASTM Harmonization Task Force Members.

The 31th 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 2011, 1538 labs held AASHTO accreditation. This is a 7% increase over the past year and a 36% increase over the last 5 years. The 27th assessment tour was completed in September 2010. In this tour 1515 labs were visited which was a 11% increase over the previous tour and a 32% increase over tour 25. There continues to be concern over other 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:
- Support the conduct of benefit/cost of research findings prior to implementation
- Support the Transportation Curriculum Coordination Council
- Support the return of a comprehensive Materials Course(former 6 week course)

Presentations of interest at the Plenary Sessions included a presentation on Every Day Counts as previously discussed, SHRP 2, survey results on RAP and WMA by NAPA, APCA web products, updates by the Recycling Center, the AMRL, 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 98th annual meeting of the SOM will be held August 5 to 10, 2012, in Biloxi, MS. The proposed location of the 99th meeting of the SOM is to be held in Region 4 at a location TBD. Planning for the 100th meeting of the SOM will begin in 2011.
HIGHWAY SUBCOMMITTEE ON RIGHT-OF-WAY AND UTILITIES

Officers:

Chair: John P. Campbell, P.E., SR/WA, Texas DOT
Vice-Chair, Right of Way: Matt DeLong, Michigan DOT
Vice-Chair, Utility: Nelson Smith, Maryland SHA
Secretary: Nelson Castellanos, FHWA HQ, Washington, D.C.
FHWA Utility Liaison: Jon Obenberger, FHWA HQ, Washington, D.C.
AASHTO Liaison: Keith Platte, P.E., AASHTO, Washington, D.C.

2011 Spring Membership Meeting and Conference:


2011 FHWA Excellence in Utility Accommodation Awards:

Congratulations to the nominees and winners of the Federal Highway Administration’s 2011 Excellence in Utility Relocation and Accommodation Awards. The award recipients were honored on May 11, 2011 during the American Association of State Highway and Transportation Officials (AASHTO) annual meeting of the Subcommittee on Design and the Subcommittee on Right of Way and Utilities in St. Louis, Missouri.

- **Excellence Award for Project Development** - Utah Department of Transportation
  For utilizing partnering agreements, master agreements, cost sharing, and acquisition of rights-of-way on behalf of the utilities to advance the project.

- **Honorable Mention for Project Development** – Louisiana Department of Transportation and Development
  For meeting the substantial increase in the demand for utility agreements on projects receiving funding from the American Recovery and Reinvestment Act of 2009 (ARRA).

- **Excellence Award for Construction Management** - Texas Department of Transportation and Cobb, Fendley & Associates
  For the use of a collaborative process to involve stakeholders in the planning, design, and development of agreements, which enabled utilities to be relocated 1 year ahead of schedule at a $5 million savings.

- **Excellence Award for Incentive** - Texas Department of Transportation and Cobb, Fendley & Associates
  For the collaboration and cooperation through the use of developer-managed and owner-managed agreements.

- **Excellence Award for Innovation** - Dewberry-Goodkind
  For the use of innovative technologies to strengthen a 90-year-old arch sewer, resulting in a $1.4 million savings over traditional utility relocation and accommodation methods.

- **Honorable Mention for Innovation** – Georgia Department of Transportation
  For innovative coordination and communication methods that were implemented through the Georgia Utility Permitting System (GUPS).

- **Excellence Award for Leadership** – Team – Georgia Department of Transportation
  For the successful development and implementation of the Coordination Program, which removed roadblocks and made improvements to the GDOT’s project delivery process.

- **Excellence Awards for Leadership** – Individual – Chuck Schmidt, New Hampshire Department of Transportation
  For his leadership, vision and commitment to advancing practices nationally to enhance the accommodation and relocation of utilities.

For additional information about this year’s award recipients and their winning efforts, please visit the FHWA website at [FHWA 2011 Excellence in Utility Relocation and Accommodation Awards](https://www.fhwa.dot.gov/utl/awards/2011/).
In 2012, the subcommittee will host presentations of the "Excellence in Right of Way Awards" at the AASHTO/FHWA Right of Way and Utilities Subcommittee Conference, to be conducted in Portland, Oregon.

**Summary of Subcommittee Activities and Publications for 2011:**

1. **Best Practices in Outdoor Advertising Control**

   **NCHRP Project Panel 20-36 – International Programs**

   In March 2010 the team for the International Scan on Outdoor Advertising Control visited Australia, Sweden, The Netherlands, and the United Kingdom to learn how other countries regulate outdoor advertising within and adjacent to the roadway right of way. The study team examined new techniques to enforce laws, balance competing interests (including public involvement, and what factors to consider when developing policy, regulations, and enforcement mechanisms, such as safety, environmental concerns, and revenue generation.

   The international scan is co-chaired by:
   Mary Jane Daluge, Senior Realty Specialist, FHWA, Co-Chair
   Matt DeLong, Real Estate Division Administrator, Michigan DOT, Co-Chair

   **Scan Team members include:**
   - Cesar Quiroga, Ph.D., P.E., Research Engineer and Manager, Infrastructure Management Program, Texas Transportation Institute, Report Facilitator
   - Hari Kalla, MUTCD Team Leader, FHWA
   - Susan Klekar, FHWA Division Administrator, Nevada Division
   - Lyle McMillian, Director, Right of Way, Utah DOT
   - Barbara Wessinger Attorney, South Carolina DOT
   - Laurie Hanig, Assistant Attorney General, Maryland State Highway Administration
   - Charlie Klauser, Ph.D., Senior Research Associate Virginia Tech Transportation Institute
   - Ken Klein, Executive Vice President, Government Relations, Outdoor Advertising Association of America
   - Jeff Soule, Director, Outreach and International Programs, American Planning Association
   - Mary Tracy, President, Scenic America

   The final scan report was published by the FHWA Office of International Programs in May 2011 and is available on line at [http://www.international.fhwa.dot.gov/pubs/pl11023/pl11023.pdf](http://www.international.fhwa.dot.gov/pubs/pl11023/pl11023.pdf)

2. **Research Studies and Pilot Project Initiatives:**

   **National Cooperative Highway Research Program (NCHRP), 20-07 Project Panel**

   NCHRP was created in 1962 as a means to accelerate research on acute problems that affect highway planning, design, construction, operation, and maintenance nationwide. The Right of Way and Utilities subcommittee recommends research topics for consideration by the 20-07 research panel twice each year. At the 2008 annual meeting of the Standing Committee on Highways (SCOH) the right of way and utilities subcommittee was appointed to the 20-07 project selection panel.

   1. **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.

      The panel is in the process of selecting a firm to conduct the work.


      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.

      The panel is in the process of selecting a firm to conduct the work.


      This project 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.
The draft final report for the project is being circulated among Subcommittee team members for review and is expected to be published by the end of 2011.

**National Cooperative Highway Research Program (NCHRP), 20-84 Project Panel**

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 assistance and payments; (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. The 2011 First Quarter Progress Report was distributed to panel members in April 2011. Please visit the [Transportation Research Board (TRB) site](http://www.trb.org) for additional information regarding the status of 20-84.

**Future Meetings of the Highway Subcommittee on R/W and Utilities:**

**Executive Board Business Meeting and Planning Session**

The Executive Board of the Highway Subcommittee on Right of Way and Utilities will meet in January 2012 in Portland, Oregon 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 09 – 12, 2012
- **Location:** Portland, Oregon
- **Duration:** 2½ days
- **Frequency:** Subcommittee Executive Board meeting occurs annually

**Annual Subcommittee Meeting and Membership Conference**

The 2012 annual conference and meeting of the subcommittee membership will be hosted by the Oregon Department of Transportation in Portland this spring. 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 realty and utility program areas. Separate business meetings of the right of way and utility directors are incorporated into the conference schedule.

- **Dates:** April 29 – May 03, 2012
- **Location:** Portland, Oregon
- **Duration:** 4 ½ days
- **Frequency:** The Highway Subcommittee on Right of Way and Utilities meeting of the full membership occurs annually.

Please visit our website for additional information about the [AASHTO Subcommittee on Right of Way and Utilities](http://aashto.org).
HIGHWAYS SUBCOMMITTEE ON SYSTEMS OPERATIONS AND MANAGEMENT (SSOM)

Committee Officers

Chair R. Scott Rawlins, NV DOT  
Vice Chair Connie Sorrell, VA DOT  
Secretary Jeff Lindley, FHWA  
Liaison Lacy Love, AASHTO

Summary of Activities and Accomplishments to date

- Completion of NCHRP Project 3-94 Systems Operations and Management Guide. Guide has been completed, beta tested, and ready for consideration as an AASHTO Guide.

- Work is in progress 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 2012.

- Work is in progress on NCHRP Project 20-86, Attracting, Recruiting, and Retaining Skilled Staff for Transportation System Operations and Management. The objective of this research is to provide transportation agencies with strategies and resources to meet their needs for SOM 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 is working with SHRP2 Reliability Office to coordinate efforts that are mutually beneficial to both TRB and AASHTO. In conjunction with the 2011 annual meeting, SSOM has partnered with SHRP2 Reliability Office to conduct a one day workshop targeted for DOT’s senior leadership to provide compelling reasons for these transportation agency leaders to embrace the notion that system operations and management (SO&M) should be a significant and visible element of their respective agencies’ core business activities.

- Committee is requesting, through a resolution, approval to include industry associations as a part of the SSOM due to the positive benefits and added value they contribute to the efforts of systems operations and management.

- Committee is looking to re-energize the overall membership. We are working with FHWA, SHRP2 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.

Annual Meeting

The 2011 Subcommittee on System Operations and Management will be meeting jointly with Special Committee on Wireless Technology and held in conjunction with the 18th World Congress meeting of ITS in Orlando, Florida on October 19, 2011.
HIGHWAYS SUBCOMMITTEE ON TRAFFIC ENGINEERING

Officers
Chair          Bernie Arseneau, MN
Vice Chair     Thomas Hicks, MD SHA
Secretary      Mark Kehrli, FHWA
Liaison        Lacy Love, AASHTO

Summary of Activities and Accomplishments to date

- Committee provided comments to AASHTO on 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.

- Committee reviewed proposed Senate Bill that would eliminate compliance dates for all highway sign retroreflectivity standards and provided comments to AASHTO that while the bill would provide some short term relieve, it would not be in the state’s best interest to totally eliminate the MUTCD requirement. Committee reaffirmed AASHTO’s position letter of January 14, 2011 from Executive Director John Horsley to USDOT.

- Committee passed a resolution to provide comments to FHWA on Section 3A.03 of the MUTCD on minimum retroreflectivity requirements for longitudinal pavement markings. The committee proposed minimum standards that are reasonable and practicable for state DOTs to maintain.

- Committee continued to have discussions with FHWA about the 2009 MUTCD changes, the problems state DOTs are facing due to the changes and potential solutions.

- Committee recognized Chairman Del McOmie for his outstanding leadership and dedication in leading the SCOTE for the past 6 years.

- Developing and submitting an NCHRP problem statement on the “Effects of Work Zones on Crash Risks and guidance on Countermeasures.” The project was selected for funding through the NCHRP process.

- Reviewing and providing comments on the report for NCHRP 20-7(282) on “Research Needs Assessment for Roadside Worker and Vehicle Visibility.”

- Four practices proposed by FHWA for addition to FHWA’s Work Zone Best Practices Guidebook were reviewed by the team and feedback was provided to FHWA on edits to some of the practices. Feedback was also provided on preferred formats and organization for the next version of the Guidebook.

- Provide input and guidance on NCHRP 20-7 / Task 271 – Graphic Traffic Signal Design Aid based on the MUTCD. Members of the Technical Team used, evaluated, and commented on the beta-test software in November 2010. Evaluation will continue of the soft-ware as development progresses. We anticipate this project to be completed in 2011-2012.

- Provided input and guidance on NCHRP 20-7 / Task 283 – Evaluation of Flashing Yellow (FYA) Permissive Left Turn in Shared Left Turn in Shared Yellow Signal Sections. After contract related delays, this project is set to start soon.

- Members of the committee are participating on the Joint Technical Committee looking at Roadway Lighting and providing input as a part of the process.

- Competed work in conjunction with NCHRP 20-07, Task 212, Development of a Model Drivers License Handbook

- AASHTO Bicycle Guideline: resolve the outstanding comments and the project should be completed on June 30, 2011.

- Completed work on NCHRP 20-05, Synthesis 408, “Pavement Marking Warranty Specifications”

Annual Meeting
The 2012 Subcommittee on Traffic Engineering will be meeting jointly with National Committee on Uniform Traffic Control Devices in Orlando, Florida in the spring of 2012.
TECHNOLOGY IMPLEMENTATION GROUP

Officers:
- Chair: Ken Sweeney, ME
- Vice Chair: Mike Shamma, NY
- Secretary: Byron Lord, FHWA
- AASHTO Liaison: Keith Platte

Summary of Activities and Accomplishments from October 2010 to October 2011:

New Members
TIG is proud to have a new chair, Mr. Ken Sweeney from Maine DOT. At its meeting in May 2011, TIG expanded its membership making it more inclusive by adding four new representatives, three from RAC (brings the total to four, one for each region) and one from the Standing Committee on Planning. The new members are listed below: Planning Rep: Chris Herrick – Kansas DOT, RAC Reps – Region 1: Dale Peabody, Maine DOT; Region 2: Jeffery Brown, Alabama DOT; Region 3: Tommy Nantung, Indiana DOT. EC also has a new NACE rep: Brian Roberts, a new Joint Development Rep: Max Valerio, New Mexico DOT.

Vacancies on the TIG EC
Currently we have two opening in the TIG Executive Committee: one in Region 3 and one in Region 4. If you are interested in joining the TIG EC, please send a short resume to Keith Platte, kplatte@aashto.org.

New Technologies
The new Focus Technologies for 2011 are:

- **New Bridge Material Design Options (BMD)**
  Two bridge-related technologies particularly well suited for remote or environmentally sensitive locations will be showcased by a single lead states team. These are:
  - Rigidified FRP Arch Bridges - This technology offers particular advantage in environmentally sensitive areas and in locations where it isn’t feasible to bring in heavy construction equipment. RFRPAB structures are less expensive, longer lasting in severe exposure environments, and have a lower carbon footprint than many other bridge design options.
  - Hybrid Composite Bridges - Hybrid composite beams offer lighter weights, allowing placement with lighter construction equipment. They offer the possibility of longer-lived spans and corrosion resistance not offered in conventional materials.

- **New Pavement Evaluation Tools (PET)**
  Four new pavement evaluation related technologies will be showcased by a single lead states team. These are:
  - Automated Cross Slope and Drainage Path Determination Method - This technology will allow pavement engineers a much more efficient and effective means of identifying roadway areas with a high likelihood of hydroplaning. The tool may also be used to evaluate mitigation strategies.
  - Enhanced Pavement Surveys using NTD Survey Equipment - This alternative method of analyzing data from nondestructive testing adopts the use of contour plots to provide greatly enhanced information.
  - Automated Estimation of Pavement Joint Faulting - This technology is software used with a high speed inertial profiler to detect joints and estimate faulting in jointed concrete pavement.
  - Vibration Sensitive Work Zone Identification Method - This technology is analysis software used to estimate the possibility of structural damage and human annoyance by predicting areas sensitive to vibratory compaction rolling.

- **Sequential Barricade Warning Light System (SBWL)**
The Sequential Barricade Warning Light System is an award-winning, simple system composed of sequential lighting to improve safety by alerting drivers of a work zone ahead and helping to guide them through one of the least safe transition points in a roadway work zone: the merge taper. It is a low-cost, high-benefit solution that is easy to understand and deploy.

- **Towing and Recovery Service Partnership (TRS)**
  A number of states have formed successful partnerships with the private towing industry, thereby greatly expediting clearance of disabled vehicles from incident locations.
Open Technologies
The following are the Technologies that are currently in Open Status:

- **New Bridge Material Design Options (2011)**
- **New Pavement Evaluation Tools (2011)**
- **Sequential Barricade Warning Light System (2011)**
- **Towing and Recovery Service Partnership (2010)**
- **TowPlow (2010)**
- Grade Crossing Electronic Document Management System (2009)
- Environmental Planning GIS Tools (2009)
- Linear Reference System (2008)
- Surface Resistivity (2008)

Closed Technologies
The following Technologies have been placed in Closed Status

- **Automated Machine Guidance (AMG) (2006)**
- **Self Propelled Modular Transporters (SPMT) (2006)**
- **Maintenance Decision Support System (MDSS) (2005)**
- **Precast Concrete Paving Slabs (PCPS) (2005)**
- **Construction Analysis Software Tools (CAST) (2005)**
- **Virtual Weight-in-Motion (VWIM) (2004)**
- **Cable Median Barrier (CMB) (2004)**
- **Thermal Imaging Safety Screening System (TISS) (2003)**
- **Highway Rail Warning System (HRX) (2003)**
- **Ground Penetrating Radar (GPR) (2003)**
- **Air Void Analyzer (AVA) (2002)**
- **Global Positioning System (GPS) (2002)**
- **ITS in Work Zone Safety (ITS-WZS) (2001)**
- **Accelerated Construction Technology (ACT) (2001)**
- **Prefabricated Bridge Elements (PBE) (2001)**
- **Fiber-Reinforce Repair on Overhead Sign Structures (FRP-OSS) (2003)**

Additional Selected Technologies
This year, two technologies were selected to be spotlighted by TIG. They are:

- **Anonymous Wireless Address Matching for Travel Time Data Collection**
- **Use of PFC for Improving Stormwater Runoff Quality**

One page fact sheets for these technologies are currently on the TIG website.

Nomination Process
The 2012 TIG Nomination process is now closed. The Executive Committee will review the nominations, and announce the 2012 Focus Technologies sometime in early 2012.

Names of other committees involved or with an interest in each activity:
Research Advisory Committee
Standing Committee on Planning
All Subcommittees

Dates and locations of future committee meetings:
May 2012, Traverse City Michigan
NTPEP OVERSIGHT COMMITTEE

Officers
Chair: Christine Reed (Illinois Chief Engineer)
Vice Chair: Tom Baker (Washington State, Materials Engineer)
AASHTO Liaison: Greta Smith, Program Manager for Construction and Materials
Katheryn Koretz, NTPEP Project Engineer
Evan Rothblatt, NTPEP Manufacturing Auditor
Dan Stegmaier, NTPEP Manufacturing Auditor

NTPEP Executive Committee:
David Kuniega (Pennsylvania)
Derrick Castle (Kentucky)
Robert Sarcinella (Texas)
Jim McGraw (Minnesota)

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 Subcommittee on Materials determined that the management of the AASHTO Product Evaluation Listing Program (APEL) should be managed by the NTPEP Committee through ballot. We are working with FHWA to allow APEL to be better utilized to remove barriers for review of proprietary products. The APEL data base is being revised 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.

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 2011</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 2011</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 2011</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>No.</td>
<td>Date</td>
<td>Location(s)</td>
<td>Description</td>
</tr>
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<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4</td>
<td>April 2011</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>5</td>
<td>August 2011</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 2011</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 2011</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 2011</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 2011</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 2012</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 2011</td>
<td>Indiana, NTPEP Auditors</td>
<td>Solicitation of manufacturers for participation in manufacturing audit program. Audits will begin in the first quarter of 2012.</td>
</tr>
<tr>
<td>19</td>
<td>June 2011</td>
<td>Texas</td>
<td>Coordinate sampling and laboratory evaluation of Asphalt Release Agents. Completed development of Data Mine module and will issue first reports in the fall of 2011.</td>
</tr>
</tbody>
</table>
Ongoing Activities supporting NTPEP expansion and promotion:
NTPEP staff has revised the committee website and maintain data and information for the committee, 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 – three additional technical committees are being formed by NTPEP for the evaluation of Detectable Warning Devices, Concrete Anchor Systems, and Polymer Concrete Overlay materials. These programs should be ready for product evaluations to begin in 2012.

Upcoming Meetings:

NTPEP 2012 annual meeting of the NTPEP Committee
- Dates: May 6 through May 11, 2012
- Location: Indianapolis, Indiana
SCOP-ASSET MANAGEMENT (SCOP/SCOH)

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

Annual Meeting
The annual meeting of the Subcommittee on Asset Management was held in Cheyenne, WY on August 1-3, 2011. This meeting took place in conjunction with the Peer Exchange on Beyond Pavements and Bridges: Asset Management with a Focus on Safety. Highlights of the annual meeting include the following:

- Safety and Asset Management Peer Exchange—Brought together people from the asset management and safety world for a one-day discussion. Detailed summary available in a separate report.
- 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 9th International Conference on Transportation Asset Management in San Diego, CA.
- 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:
  1. NCHRP Problem Statement on Traffic and Safety Assets
  2. NCHRP Problem Statement TAM Gap Analysis Tool
  3. NCHRP Problem Statement on Cross-Asset Optimization
- Webinars—The subcommittee will be working closely with FHWA in organizing a series of webinars related to the AASHTO Transportation Asset Management Guide: A Focus on Implementation. 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:

- Published the AASHTO Transportation Asset Management Guide: A Focus on Implementation in January 2011.
- New Leadership: Ananth Prasad, Florida DOT, was selected as the new chair of the subcommittee. Tim Henkel, Minnesota DOT, was selected as vice-chair of the subcommittee.
- Peer Exchange on Safety and Asset Management—The subcommittee sponsored a peer exchange that focused on integrating safety and asset management. 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:

- AASHTO Transportation Asset Management Guide: A Focus on Implementation—Working with FHWA in organizing these series of webinars. Tentative dates include November 2, November 16, November 30, and December 14. More information is available at tam.transportation.org.
- 2012 TRB Annual Meeting—The subcommittee will host a smaller mid-year meeting as part of the 2012 TRB Annual Meeting in conjunction with the TRB Asset Management Committee meeting.
- 9th 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 2012 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 in conjunction with the 9th International Conference on Transportation Asset Management.
- 2012 Annual Meeting—In conjunction with the peer exchange mentioned previously, the subcommittee will have an annual meeting.
- Revised NHI Course on Transportation Asset Management—The subcommittee will work with FHWA and NHI in revising the existing Transportation Asset Management to better incorporate the research from the AASHTO Transportation Asset Management Guide: A Focus on Implementation.
SPECIAL COMMITTEE ON US ROUTE NUMBERING

Chair: D. W. Vaughn, AL - Region 2

Members:
- Ken Sweeney, ME - Region 1
- Gregory Johnson, MI - Region 3
- Cathy Nelson, OR - Region 4
- Marty Vitale, AASHTO, Secretary

Activities for 2011:
Began updates to the U.S. Route Number Database in June and July 2011. State DOTs are actively submitting USBRS applications and we have been successful in processing them and getting approval.

Special Committee USRN
- 2011 Annual Meeting Detroit, Michigan
- 2012 Spring Meeting Michigan
SPECIAL COMMITTEE ON WIRELESS COMMUNICATIONS TECHNOLOGIES (SCOWCT)

**Officers**
- Chair: William A. Brown, VA
- Vice Chair: David S. Chase, NH
- Secretary: William Brownlow, AASHTO
- AASHTO Liaison: William Brownlow
- U.S. DOT Liaison: James Arnold

**Annual Meeting**

The 2011 Annual SCOWCoT Meeting will be held concurrently with the 18th Annual World Congress on Intelligent Transportation Systems in October 2011, in Orlando, Florida. The Special Committee will conduct joint meetings with the Subcommittee on System Operations and Management, SSOM, as well as participate in work groups involved with developing wireless solutions to support real time traffic information and management.

**Completed Tasks or Activities**

The FCC made an official declaration that it regards transportation agencies as “public safety”, therefore qualifying transportation agencies for all critical frequencies and authorizations of Part 90 “public safety agencies.” This will include the proposed and developing 700 MHz regional and nationwide public safety broadband networks. The FCC published on July 21, 2011 the Fourth Order and Report regarding a Request for Declaratory Ruling filed by the City of Charlotte, North Carolina, in which it formally established and acknowledged that the mission and tasks performed by state and locality departments of transportation were indeed consistent with the criteria for “safety of life” and “safety of property”.

Gaining an acknowledgement and determination by the FCC that the nation’s transportation assets carry the same classification of “public safety” as law enforcement, medical, and fire has been an objective of the Special Committee for several years.

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 regarding public safety communications, the Federal Communications Commission, and providing the Transportation input regarding the ultimate dispensation of the 700 MHz band.

The Wireless Committee continued to represent transportation at a national level throughout the year. In March 2011 Committee Chair Bill Brown appeared at the FCC as a member of a national panel regarding the utilization of the public safety 4.9 GHz microwave band. Brown detailed numerous examples of how transportation agencies nationwide utilized this band with wireless technologies to provide up to date traffic and road information and greater safety to the traveling public.

Additionally, Paul Gilbert of Texas DOT was approved for membership on the Project 25/34 Steering Committee. The Project 25/34 Joint Committee oversees the development of standards for public safety digital radios. They had recently approved a revision to its Bylaws and membership naming AASHTO as a full voting member. Paul is a Traffic Systems Specialist and a member of the Special Committee on Wireless Communications Technology. Paul has been employed by TXDOT for more than 6 years and brings more than 20 years experience to this new position. [http://www.aashtojournal.org/Pages/041511gilbert.aspx](http://www.aashtojournal.org/Pages/041511gilbert.aspx)

The Wireless Committee approved and implemented a draft Committee Strategic Plan.

**Future Events**

The 2012 Committee meeting is scheduled to be conducted jointly with the Special Committee on Transportation Security and Emergency Management, SCOTSEM, in Irvine, California, August 2012.
PROPOSED POLICY RESOLUTIONS

**Construction** — Michael Lewis, RI

PPR: Support Transportation Curriculum Coordination Council (TCCC)

**Maintenance** — C. Braceras, UT

PPR: Highway Subcommittee on Maintenance Annual Meeting and the Rest Area Conference
PPR: Support Transportation Curriculum Coordination Council (TCCC)
PPR: Adoption of an AASHTO Bridge Preservation Definition

**Materials** — G. Levi, ND

PPR: Support for the Transportation Curriculum Coordination Council
PPR: Comprehensive Materials Course
PPR: Cost Benefit Analysis of Research

**Traffic Engineering** — B. Arseneau, MN

PPR: Recommendation to MUTCD, Section 3A.03 Maintaining Minimum Retroreflectivity of Longitudinal Pavement Markings

PROPOSED AMENDMENTS TO THE AASHTO GOVERNING DOCUMENTS

**Systems Operation and Management** — Scott Rawlins, NV

PAGD: Proposed Amendment to AASHTO Governing Documents, “Inclusion of External Stakeholders as Non-voting Members of SSOM”
WHEREAS, Construction quality and long term infrastructure performance depend upon a well trained and qualified workforce, and

WHEREAS, The Transportation Curriculum Coordination Council (TCCC) is a partnership between the Federal Highway Administration, State Departments of Transportation, and the highway transportation industry to support training and certification of the technical workforce in construction, materials, and maintenance, and

WHEREAS, The TCCC mission, as chartered by AASHTO, includes development of training courses targeted to industry best practices within these transportation disciplines, and

WHEREAS, Workforce development is a key focus area within the Subcommittee on Construction, and

WHEREAS, AASHTO members and affiliated transportation associations have benefited from the instructor led, web conference, and web-based courses developed by the TCCC, and

WHEREAS, AASHTO members and affiliated transportation associations have substantially reduced training expenditures by taking advantage of the 70 free web-based courses developed and another 12 in production, and

WHEREAS, Since its founding in 2000, the TCCC has provided the following benefits to the transportation industry:

- Improved technical skills and capabilities of all transportation partners providing a quality construction program
- Support for succession planning by providing continuity between retiring and future workforces
- Enhanced professionalism and productivity through training
- Saved resources through reduced duplication of course development nationwide
- Expedited course development and delivery processes
- Flexible delivery of workforce training at reduced cost
- Clearinghouse for new course development focused on the greatest national needs
- Shared training course materials between AASHTO member transportation associations
- Better resource sharing through coordination with the National Highway Institute (NHI), Local Transportation Assistance Program (LTAP), the National Transportation Training Directors (NTTD) and various industry associations, and

WHEREAS, The TCCC efforts and products have been supported through state contributions to pooled fund TPF-5(209) as well as contributions from FHWA program offices and NHI, and

WHEREAS, The existence and continued success of the TCCC depends upon renewed, sustainable levels of support by AASHTO members and its partners now, therefore, be it

RESOLVED That the AASHTO Subcommittee on Construction recognizes the vital TCCC contributions to date and the need to continue its mission, and be it further

RESOLVED That the Subcommittee on Construction will continue to provide guidance through representation to the TCCC, and be it further

RESOLVED That the Subcommittee on Construction requests the AASHTO Board of Directors to encourage member departments to contribute to the TCCC pooled fund.
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 the America's transportation infrastructure assets, and protecting this investment is the highest priority of the maintenance and preservation community, and

WHEREAS, Management and maintenance of highway rest areas has become an area of increased concern for transportation agencies, and

WHEREAS, Rest areas provide essential services to drivers in terms of safety, comfort, and alertness, and

WHEREAS, Budgets for operation of rest areas have been affected by the current economy, often resulting in their closure or restriction of hours, and NOW, THEREFORE BE IT

RESOLVED, The AASHTO Highway Subcommittee on Maintenance supports the annual Rest Area Conference, and will coordinate technical and policy discussions so that the objectives of both groups can be advanced BE IT FURTHER

RESOLVED, The AASHTO Highway Subcommittee on Maintenance Annual Meeting and the Rest Area Conference should periodically be held concurrently so that the two groups can better exchange ideas and foster interest in mutual programs.
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 America’s transportation infrastructure assets, and protecting this investment is the highest priority of the maintenance and preservation community, and

WHEREAS, Construction quality and long term infrastructure performance depend upon a well trained and qualified workforce, and

WHEREAS, The Transportation Curriculum Coordination Council (TCCC) is a partnership between the Federal Highway Administration, State Departments of Transportation, and the highway transportation industry to support training and certification of the technical workforce in construction, materials, and maintenance, and

WHEREAS, The TCCC mission, as chartered by AASHTO, includes development of training courses targeted to industry best practices within these transportation disciplines, and

WHEREAS, Workforce development is a key focus area within the Subcommittee on Maintenance’s technical working groups, and

WHEREAS, AASHTO members and affiliated transportation associations have benefited from the instructor led, web conference, and web-based courses developed by the TCCC, and

WHEREAS, AASHTO members and affiliated transportation associations have substantially reduced training expenditures by taking advantage of the more than 70 free web-based courses developed and another 12 in production, and

WHEREAS, Since it’s founding in 2000, the TCCC has provided the following benefits to the transportation industry:

- Improved technical skills and capabilities of all transportation partners providing a quality construction and maintenance program
- Support for succession planning by providing continuity between retiring and future workforces
- Enhanced professionalism and productivity through training
- Saved resources through reduced duplication of course development nationwide
- Expedited course development and delivery processes
- Flexible delivery of workforce training at reduced cost
- Clearinghouse for new course development focused on the greatest national needs
- Shared training course materials between AASHTO member transportation associations
- Better resource sharing through coordination with the National Highway Institute (NHI), Local Transportation Assistance Program (LTAP), the National Transportation Training Directors (NTTD) and various industry associations, and

WHEREAS, The TCCC efforts and products have been supported through state contributions to pooled fund TPF-5(209) as well as contributions from FHWA program offices and NHI, and

WHEREAS, The existence and continued success of the TCCC depends upon renewed, sustainable levels of support by AASHTO members and its partners now, therefore, be it

RESOLVED That the AASHTO Subcommittee on Maintenance recognizes the vital TCCC contributions to date and the need to continue its mission, and be it further

RESOLVED That the AASHTO Subcommittee on Maintenance will continue to provide guidance through representation to the TCCC, and be it further

RESOLVED That the AASHTO Subcommittee on Maintenance request the AASHTO Board of Directors to encourage member departments to contribute to the TCCC pooled fund.
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 the America’s transportation infrastructure assets, and protecting this investment is the highest priority of the maintenance and preservation community, and

WHEREAS, The AASHTO Highway Subcommittee on Maintenance, Bridge Task Force began work on a bridge preservation definition in 2007, and

WHEREAS, The FHWA Bridge Preservation Expert Task Group further developed and approved a bridge preservation definition with commentary, and

WHEREAS, The AASHTO Highway Subcommittee on Bridges and Structures, T-9 Bridge Preservation technical committee unanimously approved without change the bridge preservation definition along with commentary (see attached document) at their 2011 annual meeting, and

WHEREAS, The AASHTO Highway Subcommittee on Bridges and Structures, unanimously approved without change the bridge preservation definition along with commentary (see attached document) at their 2011 annual meeting, and

WHEREAS, The AASHTO TSP2 Southeast, Northeast, Midwest and Western Bridge Preservation Partnerships approved the bridge preservation definition with commentary, and

WHEREAS, The AASHTO Highway Subcommittee on Maintenance, Bridge Technical Working Group unanimously approved the bridge preservation definition with commentary, and

WHEREAS, The AASHTO Highway Subcommittee on Maintenance, Bridge Technical Working Group considers the commentary an integral part that clarifies the definition of bridge preservation and was vital to gaining the support of all the stakeholders, and now, therefore be it

RESOLVED, The AASHTO Highway Subcommittee on Maintenance expresses support for and adoption of the bridge preservation definition along with commentary. be it further

RESOLVED, The AASHTO Highway Subcommittee on Maintenance requests that the AASHTO Standing Committee on Highways and the AASHTO Board of Directors adopt the bridge preservation definition along with commentary; and be it further

RESOLVED, The definition with commentary be included in the next update to the AASHTO Maintenance Manual.

Attachment: Definition of Bridge Preservation with Commentary
**DEFINITION OF BRIDGE PRESERVATION WITH COMMENTARY**

**Bridge Preservation**
Actions or strategies that prevent, delay or reduce deterioration of bridges or bridge elements, restore the function of existing bridges, keep bridges in good condition and extend their useful life. Preservation actions may be preventive or condition-driven.

**Commentary:**
Effective bridge preservation actions are intended to address bridges while they are still in good or fair condition and before the onset of serious deterioration.

An effective bridge preservation program:
1. employs long-term network strategies and practices that are aimed to preserve the condition of bridges and extends their useful life;
2. has sustained and adequate funding sources;
3. has adequate tools and processes to ensure that the appropriate treatments are applied at the appropriate time.

An effective bridge preservation program may include, but is not limited to, the following components:
A. Qualifying parameters for bridge types and related conditions, i.e. bridge elements or components that are in fair to good condition such as concrete decks, coated steel elements, substructure elements in a marine environment, etc.
B. Appropriate treatments such as cleaning, installation of deck overlays, coating of steel elements, installation of cathodic protection and prevention systems, etc.
C. Regular needs assessment to identify, prioritize, and estimate the cost of planned work

Best practices for Bridge Preservation include:
- The method of identification of needs is uniform, specific and repeatable; and based on element level condition data.
- First level national performance measures are used to set program funding levels and second level agency specific performance measures are used to set objectives for the full range of actions (maintenance, preservation, rehabilitation, and replacement) to optimize bridge conditions.
- Prioritization process integrates agency objectives for network condition levels and individual bridge risk.
- Verification and feedback on work completed.
- A significant portion of resources determined by agency network goals are directed to preservation actions.
- Agency management champions the preservation of assets.
WHEREAS, Construction quality and long term infrastructure performance depend upon a well trained and qualified workforce, and

WHEREAS, The Transportation Curriculum Coordination Council (TCCC) is a partnership between the Federal Highway Administration, State Departments of Transportation, and the highway transportation industry to support training and certification of the technical workforce in construction, materials, and maintenance, and

WHEREAS, The TCCC mission, as chartered by AASHTO, includes development of training courses targeted to industry best practices within these transportation disciplines that support AASHTO’S Vision and Goals, 3D, by expanding training opportunities, and

WHEREAS, Workforce development is a key focus area within the Subcommittee on Materials, and

WHEREAS, AASHTO members and affiliated transportation associations have benefited from the instructor led, web conference, and web-based courses developed by the TCCC, and

WHEREAS, AASHTO members and affiliated transportation associations have substantially reduced training expenditures by taking advantage of the 70 free web-based courses developed and another 12 in production, and

WHEREAS, Since it’s founding in 2000, the TCCC has provided the following benefits to the transportation industry:

- Improved technical skills and capabilities of all transportation partners providing a quality construction program
- Support for succession planning by providing continuity between retiring and future workforces
- Enhanced professionalism and productivity through training
- Saved resources through reduced duplication of course development nationwide
- Expedited course development and delivery processes
- Flexible delivery of workforce training at reduced cost
- Clearinghouse for new course development focused on the greatest national needs
- Shared training course materials between AASHTO member transportation associations
- Better resource sharing through coordination with the National Highway Institute (NHI), Local Transportation Assistance Program (LTAP), the National Transportation Training Directors (NTTD) and various industry associations, and

WHEREAS, The TCCC efforts and products have been supported through state contributions to pooled fund TPF-5(209) as well as contributions from FHWA program offices and NHI, and

WHEREAS, The existence and continued success of the TCCC depends upon renewed, sustainable levels of support by AASHTO members and its partners now, therefore, be it

RESOLVED That the AASHTO Subcommittee on Materials recognizes the vital TCCC contributions to date and the need to continue its mission, and be it further

RESOLVED That the Subcommittee on Materials will continue to provide guidance through representation to the TCCC, and be it further

RESOLVED That the Subcommittee on Materials requests the AASHTO Standing Committee on Highways (SCOH) encourage member departments to contribute to the TCCC pooled fund to provide continued support for SCOH Strategic Objective on Workforce Planning and Development.
WHEREAS, The training in the fundamentals of materials is critical to the success of departments of transportation (DOTs), and

WHEREAS, the training in the fundamentals of materials is critical to the success of the Federal Highway Agency (FHWA), and

WHEREAS, training in the fundamentals of materials is critical to the success of local agencies throughout the country, and

WHEREAS, past training through the six week NHI Materials Course has trained a generation of materials engineers nationwide, and

WHEREAS, the NHI Materials Course has not been produced or available for the last three years, creating a training vacuum and failing to educate our newest generation of federal, state and local materials and construction engineers, and

WHEREAS, the highway engineering community can no longer afford to not have an active Materials Course, available and taught every year, be it therefore

RESOLVED, The AASHTO Subcommittee on Materials requests FHWA to find a mechanism to deliver the Materials Course, whether through NHI or through an alternate delivery method, in time for the 2012 calendar year.
WHEREAS, Research is a valuable tool that is recognized by AASHTO and the State DOTs for continuous improvement in the transportation industry, and

WHEREAS, Research sometimes results in developing standards or recommendations that require changes in materials, methods or testing protocols or equipment, including the requirement for new equipment, and

WHEREAS, State DOTs use or follow AASHTO standards and documents that are maintained and updated using these products of research, and

WHEREAS, In these tough economic times it is especially important to consider the costs of these changes in light of the anticipated benefits, and

WHEREAS, Cost benefit analysis is a standard in the safety arena of the transportation industry, therefore be it

RESOLVED, The AASHTO Highway Subcommittee on Materials expresses support for the research community (NCHRP, AASHTO RAC, FHWA) to be cognizant of these issues when developing research and include the consideration and quantification of costs and benefits of the implementation of the research products in the scope of future research projects, be it further

RESOLVED, The AASHTO Highway Subcommittee on Materials requests that the AASHTO Standing Committee on Highways support formal inclusion of quantification benefit and cost language in future research projects conducted by State DOTs, be it further

RESOLVED, The AASHTO Highway Subcommittee on Materials requests that the AASHTO Standing Committee on Highways support formal inclusion of quantification benefit and cost language related to implementation of the research products in future research projects conducted by NCHRP through the AASHTO Standing Committee on Research.
WHEREAS, The AASHTO Highway Subcommittee on Traffic Engineering has been charged with the responsibility of assessing the effectiveness of traffic control practices and devices in terms of public safety, convenience and cost, and

WHEREAS, The AASHTO Highway Subcommittee on Traffic Engineering has been charged with the responsibility of providing recommended improvements in standards and guidelines contained in the Manual for Uniform Traffic Control Devices (MUTCD), and

WHEREAS, The FHWA is in the process of modifying the MUTCD, Section 3A.03, to include requirements and standards for longitudinal pavement marking retroreflectivity, and

WHEREAS, The AASHTO Highway Subcommittee on Traffic Engineering, at its annual meeting, developed certain language to be included in Section 3A.03 for acceptable levels of retroreflectivity for longitudinal pavement markings as indicated in attached Item 1, and

WHEREAS, The AASHTO Highway Subcommittee on Traffic Engineering, has balloted upon, and received support for this recommendation, now, therefore be it

RESOLVED, The AASHTO Highway Subcommittee on Traffic Engineering requests that the AASHTO Standing Committee on Highways, approve the recommendation and forwarded it on to the AASHTO Board of Directors for approval, and be it further

RESOLVED, The AASHTO Highway Subcommittee on Traffic Engineering requests the AASHTO Board of Directors to submit the subcommittee’s recommendation to the FHWA as an official AASHTO comment.

Attachment: Recommendation of Longitudinal Pavement Marking Retroreflectivity
Revised language for:

Section 3A.03 Maintaining Minimum Retroreflectivity of Longitudinal Pavement Markings

**Standard:**

Compliance shall be achieved by having a management or assessment method in place and using the method to maintain a minimum retention retroreflectivity level of the markings as shown in Table 3A-1. Minimum retention levels shall be met until such time as natural or scheduled events (see support) occur, which make it impossible to apply new markings. Substandard markings shall be brought into compliance as part of a systematic process.

**Support:**

Natural and scheduled events include, but are not limited to, winter weather, environmental conditions, reconstruction, pavement resurfacing, and localized or abnormal wear. These are factors for agencies to consider when developing a management or assessment method to maintain minimum pavement marking retroreflectivity.

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**Table 3A-1 Minimum Retention Retroreflectivity Levels for Longitudinal Pavement Markings**

<table>
<thead>
<tr>
<th>Speed Range</th>
<th>Minimum Retention Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 – 50 mph Posted</td>
<td>100</td>
</tr>
<tr>
<td>≥ 55 mph Posted</td>
<td>150</td>
</tr>
</tbody>
</table>
WHEREAS, The AASHTO Subcommittee on Systems Operation and Management (SSOM) has responsibility for a wide range of topics, including ITS research, training and deployment, transportation operations management and technologies, etc.; and

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

WHEREAS, Private industry partners are represented by private non-profit business associations, i.e. trade and professional associations, are not a part of the AASHTO organization, nor do they have voting privileges in the subcommittee meetings; and

WHEREAS, Similar to the AASHTO Special Committee on Transportation Security and Emergency Management (SCOTSEM), the SSOM 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 SSOM seeks to formally acknowledge the participation and contributions of the non-AASHTO member partners; now therefore be it

RESOLVED, That the Subcommittee on Systems Operation and Management proposes to allow the inclusion of appropriate non-AASHTO member partners as non-voting members of SSOM, similar to the SCOTSEM, and be it further,

RESOLVED, That the Subcommittee on Systems Operation and Management requests the AASHTO Standing Committee on Highways and Board of Directors approve an amendment to the AASHTO Governing Documents to allow representatives from other federal agencies, associations, or other governmental organizations to be appointed as non-voting members of SSOM by the Subcommittee Chair.