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OFFICERS
- Chair: Malcolm T. Kerley (Virginia)
- Vice Chair: Kevin Thompson (California)
- Secretary: M. Myint Lwin (FHWA)
- Assistant Secretary: Raj Ailaney (FHWA)
- AASHTO Liaisons: Ken Kobetsky and Kelley Rehm

ANNUAL MEETING
The 2010 Annual SCOBS Meeting will be held from May 23 through May 27, 2010 in Sacramento, CA. During this period, each of the 20 SCOBS’ Technical Committees will meet to conduct technical committee business, followed by a two-day general session meeting of the full Subcommittee to review and ballot required changes and additions to the specifications and guide documents maintained by the Subcommittee. Also during this period, SCOBS’ Executive Committee will meet to participate with SCOBS Officers in making business decisions, planning, and setting priorities, as well as improve communications between the technical committee leadership and chairs to resolve issues of importance to SCOBS.

GOALS FOR THE NEXT FIVE YEARS
SCOBS main focus continues to be the successful implementation of the LRFD and LRFR design and rating specifications. The Subcommittee intends to continue its activities for implementation facilitation of LRFD for other structures and culverts, improving and maintaining all LRFD specifications and guide documents, and ensuring proper training is provided to States during the next five years. Accomplishments of this focus will be overseen by the SCOBS Executive Committee, the membership of which includes SCOBS and FHWA Officers, AASHTO Liaisons, and technical committee chairs.

SCOBS next milestone will be the successful implementation of the Load and Resistance Factor Rating (LRFR) methodology for rating bridges designed with the LRFD specifications, and for improving the ratings of existing bridges. SCOBS has made significant steps towards the implementation of LRFR for rating bridges designed with the LRFD specifications, and for improving the ratings of existing bridges. The Subcommittee has successfully included the LRFR methodology in the AASHTO’s Manual for Bridge Evaluation.

SCOBS is focusing 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.

SCOBS’ technical committee for tunnels (T-20) conducted a domestic scan in fall 2009 to gather best practices for “Roadway Tunnel Design, Construction, Operation and Maintenance”. Last year, the “Technical Manual for Design and Construction of Road Tunnels” was adopted by AASHTO. AASHTO will continue to support FHWA in their efforts in developing the National Tunnel Inspection Standards (NTIS).

SCOBS and its T-11 committee on research will continue to support research items that support its seven Grand Challenges adopted in SCOBS’ strategic plan. These are: Extending Service Life, Optimizing Structural Systems,
Transportation security continues to be an important focus of SCOBS efforts. The Technical Committee on Bridge Security (T-1) continues to support an effort to facilitate the vulnerability assessment of the Nation’s bridges and tunnels in conjunction with the FHWA, TSA, and other vested agencies. It is also working with FHWA and State DOTs to identify and support research studies necessary to improve the performance of potentially vulnerable structures. This effort will eventually result in updated specifications to improve the security of appropriate bridges.

In response to the I-35 Bridge investigation findings and recommendations from National Transportation Safety Board (NTSB), the Subcommittee prepared a synthesis report on “Quality Control and Assurance Practices in State DOT Bridge Design Offices”. This report included responses from 47 states and Ontario, as well as several large national design consulting firms. Subcommittee is currently working with FHWA in developing a national policy on quality assurance and quality control in bridge designs.

Following is the schedule of various publications that are either complete or on the balloting for approval and acceptance:

**Schedule of Publications (work done and in progress for FY 2010)**

<table>
<thead>
<tr>
<th>2009 Queue Order</th>
<th>Pub Code</th>
<th>Pub Title</th>
<th>New Title/ New Edition/ Interim</th>
<th>Status</th>
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<tr>
<td>2009-3</td>
<td>MBE-1-I1</td>
<td>2009 Interim Revisions to Manual for Bridge Evaluation</td>
<td>Interim</td>
<td>Completed</td>
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<tr>
<td>2009-4</td>
<td>CORE-1-I2</td>
<td>2009 Interim Revisions to AASHTO Guide for Commonly Recognized (CoRe) Structural Elements</td>
<td>Interim</td>
<td>Completed</td>
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### 2009 Queue Order

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<th>2009 Queue Order</th>
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<th>Pub Title</th>
<th>New Title/ New Edition/ Interim</th>
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<tr>
<td>2009-8</td>
<td>LRFDSEIS-1-I1</td>
<td>2009 Interim Revisions to AASHTO LRFD Seismic Bridge Design Specs.</td>
<td>Interim</td>
<td>Completed</td>
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### 2010 Ballot—to be voted on at May 2010 Bridge Meeting

<table>
<thead>
<tr>
<th>2010 Queue Order</th>
<th>Pub Code</th>
<th>Pub Title</th>
<th>New Title/ New Edition/ Interim</th>
<th>Status</th>
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<tr>
<td>2010-</td>
<td>LRFDUS-5-I1</td>
<td>2010 Interim Revisions to AASHTO LRFD Bridge Design Specs.</td>
<td>Interim</td>
<td>At ballot: T-2, T-4, T-5, T-7, T-10, T-13, T-14</td>
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<td>2010-</td>
<td>LRFDCONS-3-I1</td>
<td>2010 Interim Revisions to AASHTO LRFD Bridge Construction Specs.</td>
<td>Interim</td>
<td>At ballot: T-2, T-4, T-10, T-13, T-14</td>
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<tr>
<td>2010-</td>
<td>LRFDMOV-3</td>
<td>AASHTO LRFD Movable Bridge Design Specs., 3rd ed.</td>
<td>New Edition or Interim</td>
<td>At ballot: T-8</td>
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<td>2010-</td>
<td>BEM-1</td>
<td>AASHTO Bridge Element Inspection Manual</td>
<td>First Edition</td>
<td>At ballot: T-18</td>
</tr>
<tr>
<td>2010-</td>
<td>EBFRPS-1</td>
<td>Guide Spec. for Design of Externally Bonded FRP Systems for Strengthening Concrete</td>
<td>First Edition</td>
<td>At ballot: T-6</td>
</tr>
<tr>
<td>2010-</td>
<td>BAS-1</td>
<td>Bridge Aesthetics Sourcebook—Practical Ideas for Short and Medium Span Bridges</td>
<td>First Edition</td>
<td>At ballot: T-9</td>
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**Future Meetings** - Future meetings of the Subcommittee have been scheduled in the following states: 2011 in Virginia, 2012 in Texas, and 2013 in New Jersey.
HIGHWAYS SUBCOMMITTEE ON CONSTRUCTION (SOC)

AASHTO SOC Officers
Chair: Mike Lewis, RIDOT
Vice Chair: Claude Oie, NDOR
Secretary: Butch Wlaschin, FHWA
AASHTO Liaison: Jim McDonnell

Proposed Schedule

New or Updated Publications
• Publish the latest update to the AASHTO Guide Specifications for Highway Construction.

Other Activities

General
• Develop the program for the SOC 2010 summer meeting in Burlington, Vermont, August 15 through August 20.
• Serve on the NPHQ Steering Committee, NWHS update, Highways for Life Task Force, NICET, AASHTO TIG, Electronic Engineering Data TC, and the Design Build Joint Committee, Serve on the Center for Environmental Excellence Advisory Board.
• Participate in International Scan on Public-Private Partnerships.
• Participate in TCCC activities to provide up-to-date training for areas such as inspection, stakeless construction, Environmental Factors in Construction, etc.
• Develop statements for and participate in the NCHRP research and synthesis programs and International and Domestic Scans.

Upcoming Meetings
• August 15-20, 2010, Burlington, Vermont
• 2011, Norfolk, Virginia
• 2012, San Francisco, California

Computers and Technology Section (Emanuel Banks, Arkansas DOT)
• Continue to provide information to AASHTO website:
  Continue to provide updates and input as needed to enhance AASHTO Subcommittee on Construction National website and the National Highway Specification Website.
• Continue to provide leadership, extension, and guidance for the enhancements of the AASHTO Trns•Port software and Civil Rights and Labor Management System (CRLMS).
• Provide representation to the following committees:
  o AASHTO TIG
  o TRB Technical Committee - GPS in Construction (Design, survey, construction, etc.)
  o NCHRP 10-77 Use of Automated Machine Guidance (AMG) within the Transportation Industry
• Survey states regarding programmatic approaches to address cost containment (e.g. MO – Practical Design, PA – bridge alternates, NC - pipe alternates.)
• Provide representation to NCHRP 20-7 task to update equipment fuel usage factors for fuel price adjustment clauses.
• Survey states regarding efforts to reduce the production of greenhouse gasses in highway construction addressing:
  o Equipment retrofit alternative fuel/automated equipment idling
  o Investigate evolving “green” requirements/regulations to control construction equipment emissions
• Develop a quick reference guide to assist States with AMG preconstruction requirements, construction specifications, data exchange protocol, etc. Will include examples in use by states of their written processes, specifications, GPS web-based training, etc.
Survey states regarding experiences with proprietary document management software systems developed/used by consultant CM firms (e.g. SharePoint electronic IDR).

**Contract Administration Section (Brad Lewis, Mississippi DOT)**
- Update the AASHTO / FHWA spreadsheet for the current use of price adjustment clauses.
- Develop guidance on railroad coordination issues for construction contracts.
- Survey the states on their experiences with 'no excuse incentives clauses'.
- Survey the states regarding their experiences with warranty clauses.
- Survey the states regarding their experiences with value engineering change proposal clauses.

**Environmental and Human Resource Section (Mark Leja, CalTrans)**

**Environmental Stewardship**
- Conduct various surveys on BMP testing facilities, NPDES/SWPPP training, handling noxious and non-native weed species, invasive species requirements, and AASHTO-SOC “Top Ten” environmental concerns.

**Work Zone Safety**
- Assist with implementation of the new FHWA Work Zone products including reviewing guidelines and disseminating best practices.

**Human Resources**
- Update on development of Resident Engineers Academy
- Enhancing training opportunities through NHI and TCCC with additional web-based courses

**Roadway and Structures Section (David Ahlvers, MoDOT)**
- Develop and disseminate survey to identify determine highest value for inspector time.
- Develop current best practices for inspection and measurement of workmanship, and prepare recommendations for the QA program guide.
- Develop and disseminate survey on use of constructability, VE, contractor solicited input, design errors, and post construction feedback for improving construction quality.
- Provide support in the development of the Construction Academy.
- Survey states on workforce retention and succession planning.
- Assist the Transportation System Preservation (TSP2) effort related to roadway and bridge preservation.

**Goals**
The SOC’s 1 to 5 year goals are as follows:
- Provide guidance to the states to reduce the construction impacts to traffic flow and to increase safety.
- Develop best practices for environmental stewardship that states can easily implement.
- Develop best practices and innovations for procurement methods and contract administration that increase construction quality and regulatory compliance, and reduce reliance on state forces.
- Provide constructive input on FHWA, industry, and other business partner initiatives and program revisions to assist in providing for programs that are to the benefit of the public.

**Survey Results**
The Technical Sections of the Subcommittee on Construction have sponsored various national surveys to summarize contracting agency practices and to share lessons learned regarding construction management. The following survey summaries the areas of interest to the Subcommittee members.

**2009**

**Electronic Records** (95 kb)—This survey queried states on the status of electronic document management systems for construction records. Click on the tabs at the bottom of the spreadsheet to see the responses to each question.

**Pavement and Bridge Smoothness** (116 kb)—This document summarizes information related to pavement and bridge smoothness. Click on the tabs at the bottom of the spreadsheet to see the responses to each question.
• **Materials Testing Practices** (60 kb)—This survey summarizes the state of testing practices for various materials. Click on the tabs at the bottom of the spreadsheet to see the responses to each question.

• **Claim Certification Questionnaire** (1.2 MB)—This survey summarizes the State DOTs' use of claims certification statements and provides sample certifications.

• **State Practices Concerning Construction Delays** (0.3 MB)—This survey summarizes the State DOTs' practices and policies concerning construction delays resulting from various circumstances and the State DOTs' contract administration policies.

• **Analysis of Cost Trends Associated with Contract Overruns** (0.3 MB)—This survey provides information regarding the State DOTs' practices for analyzing cost trends associated with contract overruns and how the states are managing cost implications and providing feedback in the project delivery process.

• **Price/Supply Issues, Alternate Bidding Issues, Practices for Increasing Competition** (309k)—This survey was conducted to address some of the recommendations made at the 2007 Highway Construction Cost Workshop.

• **Use of Price Adjustment Clauses (updated):** Subcommittee on Construction, Contract Administration Section, Survey on the Use of Price Adjustment Clauses; Overview of responses: Price Adjustment Clause Use, Fall 2008; and Summary, Price Adjustment Clauses, Fall 2008
HIGHWAYS SUBCOMMITTEE ON DESIGN

Officers
- Chair: Carolann Wicks, Delaware
- Vice Chair: Richard Land, California
- Secretary: Dwight Horne, FHWA
- AASHTO Liaison: Jim McDonnell, AASHTO

Proposed Schedule

- New or Updated Publications
  - Design guides published in 2009/2010 (and responsible committees):
    - Update of the *AASHTO Transportation Glossary* -- Technical Committee on Geometric Design
    - *Manual for Assessing Safety Hardware* (Update of NCHRP Report 350) -- Technical Committee on Roadside Safety
    - Update of the *Guidelines for Value Engineering* -- Technical Committee on Value Engineering
  - Coming up in 2010 for committee ballot:
    - Update of the *AASHTO Green Book* -- Technical Committee on Geometric Design
    - Update of the *Roadside Design Guide* -- Technical Committee on Roadside Safety
    - Update of the *AASHTO Bicycle Guide* -- Technical Committees on Nonmotorized Transportation and Geometric Design

- Other Activities For The Coming Year
  - Technical Committee on Cost Estimates
    - Continuing development of “practical” guidance on preparing cost estimates, including recommended procedures and guidance on reviewing bids prior to concurrence in award. Guidance will also be included for improving pre-bid, bid review, and evaluation policies and procedures. TCCE members are working with a research team to complete the initial five chapters on estimating methods and procedures, as well as definitions through NCHRP 20-7, Task 278.Work continues on the remaining chapters.
    - Continuing to develop and maintain a web-based clearinghouse for estimating guidance, research, publications, and contact information. State contact information and links to their guidance gathered from a 2009 survey will be included on the webpage.
    - Continuing evaluation of cost estimating related research, including participation on selected NCHRP technical panels.

  - Technical Committee on Electronic Engineering Data
    - Develop 20-7 proposal to review and assess the existing XML schemas within the business areas of the State DOTs for future incorporation into TransXML.
    - Develop full-blown NCHRP proposal as a follow-on to the 20-7 project to continue development of XML schemas started under NCHRP Project 20-64
    - Develop operating procedures for review, acceptance, maintenance, and update of new and revised schemas
    - Work to identify a longer-term funding scenario and structure for maintaining the standards that are developed

  - Technical Committee on Environmental Design
    - Complete the New Guide on Landscape and Environmental Design. Final review has been submitted to TRB for completion. TRB is currently working with the consultant for completion. May be on the ballot this year.
    - Conduct joint meeting with TRB in Southern California this August.
• **Technical Committee on Geometric Design**
  - Revising the Green Book with ballot expected in 2010.

• **Technical Committee on Highway Lighting** Inactive

• **Technical Committee on Hydrology and Hydraulics**
  - The TCHH is revising the 2005 AASHTO Model Drainage Manual with the intent of expanding the usefulness to a broader audience, making the manual more user friendly, reducing the clutter and making it more accessible. The current manual will be re-titled: AASHTO Drainage Manual. The new manual consists of two volumes: Volume 1, Policy and Volume 2, Procedures. Other enhancements include:
    - Allow chapters to be sold separately
    - Remove duplications
    - Unify the language
    - Remove outdated information, practices and methods
    - Remove double parenthesis
  - The TCHH organized a pooled-fund study to secure funding to hire a consultant to complete the revision of the AASHTO Model Drainage Manual into the AASHTO Drainage Manual. The consultant's primary tasks are to unify the manual's language, remove duplications and prepare the manual for publication. The plan is to complete the manual revisions by the end of Calendar Year 2010 and complete its publication in 2011. While the new manual will no longer be a model manual, it will serve as a standalone, two parts (volumes) manual. The manual's new official name, as indicated above, will be the AASHTO Drainage Manual, Policy and Procedures.

• **Technical Committee on Nonmotorized Transportation** Work plan unavailable

• **Joint Technical Committee on Pavements**
  - The Committee will continue to work with FHWA to promote the MEPDG with the FHWA Design Guide Implementation Team (DGIT) and through venues like the Transportation Research Board Annual Meeting.
    - The purpose of the FHWA DGIT team is to raise awareness, assist, and support State Highway Agencies and their industry partners in the development and implementation of the MEPDG. The DGIT website provides information concerning the availability of various workshops, NHI courses related to the MEPDG and information about DGIT (http://www.fhwa.dot.gov/pavement/dgit/index.cfm)
    - A workshop on MEPDG implementation has been held at the annual meeting of the Transportation Research Board for several years and is supported by the JTCOP and by agencies which are implementing or have implemented the new procedure. Since attendance at the workshops has been excellent and states voice the benefits of the discussions, it is likely that additional workshops will be held on various aspects of MEPDG implementation. The workshop in January 2011 will focus on DARWin-ME, the software version of the MEPDG, which is scheduled for release in December 2010. Vice chairman, Judith Corley-Lay, will be putting this workshop together and moderating.
  - The four technical groups have been meeting via telephone conference calls to augment the annual meeting. These include Design and Modeling, Pavement Management Systems, Sustainability and Preservation, and Low Volume and Local Road Systems. These technical groups have lead responsibilities in review of documents assigned to them, and in development of research needs statements. The Design group did an excellent job this year in cataloging and responding to all comments during the balloting of the Local Calibration Guide. The four technical groups will have face to face meetings at our May meeting.
o AASHTOware is developing software for the MEPDG. The JTCOP will maintain the final authoritative copy of the software and is intimately involved in the software effort. The technical committee will recommend model refinements and improvements for future DARWin-ME versions. A technical presentation on a recently completed NCHRP project on Reflection cracking will be made at the May meeting for consideration by the group for inclusion in a future version of DARWin-ME. A technical presentation on DARWin-ME will also be made by the contractor developing the software at the May meeting.
o The JTCOP will be discussing our Research Needs Statements submitted during the last cycle and methods to improve success in the NCHRP funding process.
o Modifications and updating of the Pavement Management Guide were submitted under NCHRP 20-7 and were approved for funding. These modifications include inclusion of Superpave, updating of state examples and minor revisions and were recommended by the JTCOP following a document review by three JTCOP members. A report from the project lead investigator will be made at the May 2010 JTCOP meeting.
o The JTCOP has worked actively in 2010 to fill vacancies. In this era of travel restrictions, this has been a difficult “sell”, but we have had significant interest from Washington and Pennsylvania, among others. We anticipate that some vacancies will be filled but that this effort will continue in 2011.

• Technical Committee on Preconstruction Engineering Management
  o Review the 1991 AASHTO Guidelines for Preconstruction Engineering Management to determine the need or merit in rewriting this manual or providing pertinent information via technical committee reports.
o Continue efforts to identify how state DOTs deal with errors and omissions, including similar policies and practices that could be made available to benefit transportation agencies.
o Work to identify project management “best management practices” among DOTs with the idea of identifying effective policies and practices and making this information available to transportation agencies.

• Technical Committee on Public Transportation Facilities Design Inactive

• Technical Committee on Roadside Safety
  o Revising the Roadside Design Guide, including a new chapter on Low Volume Roadways and an expanded chapter for Urban Roadside. The guide is being targeted for balloting in June 2010.
o Pursuing a cost/benefit software update of the Roadside Safety Analysis Program. The software update is expected to be available for distribution in 2010/2011.
o Continuing coordination with FHWA on highway safety barriers tested under the Manual for Assessing Safety Hardware in compliance with the AASHTO/FHWA Implementation Agreement.
o Pursing interim crash testing guidance for longitudinal barrier placement on median slope configuration with special consideration of cable systems under NCHRP 22-14(3) research project.

• Technical Committee on Value Engineering
  o Conduct annual meeting using technology versus face to face.
o Conduct conference call periodically throughout 2010
o Participation by members in meetings
  ▪ Transportation Research Board Annual Meeting, January 2010
  ▪ SAVE International Annual Conference, June 2010

• Upcoming Meetings
  - 2010 – Region 2, South Carolina, July 2010
  - 2011 – Region 3, Missouri, Joint Meeting with Subcommittee on Rights-of-Way and Utilities
  - 2012 – Region 1, Maine
  - 2013 – Region 4, to be determined
OFFICE BUSINESS AGENDA — 11 OF 42
V.B. WORK PLANS 2010-2011
NATCHEZ, MISSISSIPPI; MAY 21, 2010

HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT

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

Task Force Chairs:
- Jan Skouby, MO, Operations
- Ric Athey, Arizona, Size and Weight
- Denny Silvio, Louisiana, Oversize/Overweight Permitting
- Vacant, Highway Freight Movement

Review of Subcommittee Charge Statement:
No changes to charge statement.

Proposed
No proposed changes.

Schedule of New/Updated Publications
- Guide for Vehicle Weights and Dimensions, update, fall 2010
- Highway Freight Movement Bottom Line Report, fall 2010

Activities for 2010-2011

Specific
- Continue to carry out implementation plan for size and weight enforcement European scan.
- Manage process for reporting to Board of Directors on truck size and weight policy.
- Conclude agreement with boat carriers.
- Continue discussion with utilities industry concerning truck and equipment issues.
- Get Freight Movement Task Force well-established.
- Monitor and respond to commercial vehicle reauthorization proposals.
- Disseminate Highway Freight Movement Bottom Line Report
- Develop best practices guide for high, wide, and heavy corridors
- Incorporate implement improvements in protocol for routing OS/OW loads during emergencies.
- Produce compendium of smart roadside technologies in use.

General
- Update membership list at least quarterly.
- Encourage more representation on SCOHT from the freight transportation, planning, and infrastructure divisions of State DOTs.
- Strengthen working relationships with other SCOH Subcommittees
- Provide stronger freight element for SCOH.
- Continue promoting communication with industry.
- Promote regional permits among and between the various AASHTO Regions.

Goals for Next 5 Years:
- Strive to continually improve and maximize the participation of partners in the commercial vehicle industry with the intent of finding joint solutions.
• Link SCOHT activities to other AASHTO activities in the areas of safety, security, operations and freight transportation.
• Identify potential research projects surrounding the subcommittee’s charge that would have a high degree of probability for implementable results.
• Work with AASHTO Freight Transportation Leadership Group (chairs of freight mode committees) to develop an integrated freight transportation effort.
• Continue to support development interregional permit systems.

Upcoming Meetings:

Subcommittee on Highway Transport Annual Meeting Dates: June 7-9 Location: Portland, Maine
HIGHWAYS SUBCOMMITTEE ON MAINTENANCE

Officers:
- Chair: Carlos Braceras, UT
- Vice Chair: Lacy Love, NC
- Vice Chair: Chris Christopher, WA
- Secretary: Celso Gatchalian, FHWA (acting)
- Liaison: Ken Kobetsky, AASHTO
- Past Vice Chair: Russell Yurek, MdSHA

Review of Subcommittee charge statement
- The Subcommittee’s Strategic Plan was updated to better align with SCOH and to reflect the challenges and needs faced by the maintenance community today.
- The Subcommittee’s eleven areas of emphasis was restructured, replacing the Task Forces and Focus Groups with new Technical Working Groups.
- The Subcommittee’s Vision, Mission, and Goals were revised.

Proposed Schedule
- New or Updated Publications
  - The Maintenance Manager (a quarterly newsletter for Subcommittee members)
  - 2010 AASHTO Equipment Reference Book (posted on Subcommittee website)
  - Subcommittee on Maintenance Roster (updated annually)
  - The Subcommittee website was revised to reflect the recent changes as a result of the restructuring of the Subcommittee.

- Other Activities For The Coming Year
  - Finalize “Statement of Direction” for each Technical Working Group.
  - The Subcommittee Summer Meeting is scheduled July 11–15, 2010 in Savannah, Georgia. Details and future additional information are to be posted on this website, http://www.dot.ga.gov/informationcenter/publicinformation/Pages/SCOM2010.aspx
  - Marketing and rollout of the new NHI training course “Maintenance Leadership Academy”. Contacts: Jim Feda – SCDOT, Chris Newman – FHWA
  - Development of the 2010 AASHTO Equipment Reference Book in electronic format to be posted on the AASHTO Subcommittee on Maintenance website.
  - Coordinate with the Subcommittee on Asset Management in the deployment of Volume 2 of the Asset Management Guide

GOALS

Bridge Technical Working Group
The Bridge Technical Working Group will be focusing on the areas listed below in the upcoming year. Each focus area listed below is linked to the strategic focus areas outlined in the SCOH and SCOM Strategic Plans.

- Promote the sharing of expertise and state-of-the-practice for preserving and improving the health/condition of bridges and structures by establishing regional bridge working groups and conducting bridge preservation workshops.
- Support research to advance the practice of preserving and improving bridges and structures by working closely with SCOB and TRB subcommittees.
- Promote the reliability and safety of bridges by focusing on innovative maintenance practices, timely inspections and repair and worker safety.
• Develop national clearinghouse for bridge preservation information in coordination with the AASHTO TSP-2 Program.

• Promote accountability and transparency through performance management of bridges and structures in conjunction with the other technical working groups with a focus on an accurate and efficient bridge inventory system, appropriate performance measures, clear measurable goals which can be attained, and innovative reporting techniques using common terminology.

• Identify, develop, and promote workforce development activities for bridges and structures which could strengthen the maintenance workforce including inspection, preservation and activity specific training. This includes coordinating with appropriate TCCC and TSP2 efforts.

• Promote sustainability of the highway bridge environment with a special focus on climate change mitigation strategies and pollution prevention.

Pavement Technical Working Group
The purpose of the Pavement Technical Working Group is to promote the preservation of pavements. The PTWG will attempt to accomplish this purpose by the following activities:

• Promote the Transportation Systems Preservation Technical Services Program. (TSP²)

• Sustain a high level of maintenance interest and involvement in the area of System Preservation.

• Work with the Joint Technical Committee on Pavements on the possibility of developing a Pavement Preservation chapter that can be included in the new AASHTO Mechanistic-Empirical Pavement Design Guide.

• Support the development and expansion of Regional Pavement Preservation Partnerships.

• Assist in the implementation of the Pavement Preservation Roadmap.

• Promote the utilization of the National Center for Pavement Preservation for research management

• Coordinate and support the development of guidelines, specifications, terminology and best management practices relative to pavement preservation and maintenance;

• Support and participate in development of pavement preservation projects and the use of innovative pavement materials;

• Develop partnerships and coordinate task force activities with other pavement groups (such as FPP, FHWA, TRB AHD18 and AHD20 Committees, etc.);

• Identify research needs, support development of problem statements and identify potential funding sources;

• Support the development of new technology that leads to the extension of pavement life in a cost-effective manner, and identify and promote the implementation and usage of products and processes which achieve this goal.

Roadway/Roadside Technical Working Group
The Highway Roadway/Roadside Technical Working Group will be focusing on the areas listed below in the upcoming year. Each focus area listed below is linked to the strategic focus areas outlined in the SCOH and SCOM Strategic Plans.

• Promote the sharing of expertise and state-of-the-practice for improving the health/condition of roadway/roadside features as it relates to the highway system.
• Support research in safety devices, signing, pavement marking, lighting, etc. to improve highway safety and reduce risk to travelers and workers.

• Elevate the reliability and safety of traffic flow by focusing on innovative work zone practices which minimize the impact on traffic, increase efficiency for the workforce, and remain focused on safety.

• Promote accountability and transparency through performance management of roadway/roadside features in conjunction with the other technical working groups with a focus on an accurate and efficient feature inventory system, appropriate levels of service for various regions, clear measurable goals which can be attained, and innovative reporting techniques using common terminology.

• Identify, develop, and promote workforce development activities for roadway/roadsides which could strengthen the maintenance workforce including sign and pavement marking retro-reflectivity, vegetation management, storm water management plans, and activity specific training.

• Promote sustainability of the roadside environment with a special focus on climate change mitigation strategies and pollution prevention

**Equipment Technical Working Group**

The purpose of the Equipment Technical Working Group is to interface with each of the Subcommittee on Maintenance TWGs, identify equipment issues and champion equipment management. To accomplish this purpose the TWG shall:

• Coordinate the activities of the Equipment Management Technical Services Program (EMTSP) and report progress and accomplishments of the program

• Promote the use of the Subcommittee website for information and technology sharing and as a clearinghouse for the technical working groups

• Continue participation in NCHRP Project 13-03A, Decision Making for Outsourcing and Privatization of Vehicle and Equipment Fleet Maintenance

• Continue collaboration with TRB Committee, AHD60, Maintenance Equipment, in planning the 16th Equipment Management Workshop.

• Update the AASHTO Equipment Reference Book for 2010

• Provide for the effective exchange of equipment information and issues among members

• Identify current critical equipment needs

• Promote equipment acquisition procedures that include functionality and life cycle costs

• Promote demonstration forums to display innovative equipment and ideas

• Develop research study and synthesis report problem statements

• Support the national Transportation Research Board biennial Equipment Management Workshop and promote regional equipment manager meetings

• Promote the incorporation of effective equipment management principles, and the development of dedicated equipment funds
• Support Environmentally Sensitive Considerations in equipment acquisition and operation issues

• Support equipment personnel training, development, and retention practices

• Identify and develop strategies to address emerging issues (such as climate change and homeland security)

• Institutionalize Performance Management by incorporating Performance Measures where they may be appropriately applied during the implementation of Equipment Fleet Management Systems and Equipment Maintenance Contracts

• Establish, monitor, and adjust strategic plans, organization structures and resource options to meet a dynamic environment

Highway Safety & Reliability Technical Working Group

The Highway Safety & Reliability Technical Working will be focusing on the areas listed below in the upcoming year. Each focus area listed below is linked to the strategic focus areas outlined in the SCOH and SCOM Strategic Plans.

• Promote safe and efficient work areas for maintenance stationary and mobile activities by: 1) utilizing effective liaison and collaboration with the AASHTO Standing Committee on Highway Traffic Safety (SCOHTS); 2) evaluating highway safety needs in maintenance work zones and snow and ice control operations and communicating those needs to SCOHTS as they work on developing the comprehensive long-term AASHTO Highway Safety Strategy and Plan; 3) implementing the research results in NCHRP Report 500, Volume 17 “A Guide for Reducing Work Zone Collisions”; 4) collaborating with and assisting Federal Highway Administration in promoting their “Work Zone Safety and Mobility Peer-to-Peer Program”; and, 5) posting successes and best method practices on the AASHTO Center for Excellence website.

• Develop performance measures that will increase focus and awareness of the importance of safe work zones, reliable all weather mobility, etc., through effective liaison and collaboration with: 1) the AASHTO Standing Committee on Performance Management in their focus to maximize the performance of transportation systems using performance based, results-driven management; and 2) the Subcommittee on Public Affairs as they work on informing the public about the importance of transportation to our social and economic well-being and the need for adequate funding.

• Promote the findings of NCHRP studies such as, “Performance Measures for Snow and Ice Control Operations”, Synthesis 389 “Performance-Based Contracting for Maintenance”, NCHRP 20-68A “US Domestic Scan Best Practices in Winter Maintenance”, etc. with conference presentations, technical field reviews, and whatever techniques result in efficient and effective technology transfer.

• Increase collaboration between maintenance, traffic and other organizations (law enforcement, fire & rescue, etc.) for effective incident management and emergency management response utilizing effective liaison and collaboration with AASHTO Special Committee on Transportation Security and Emergency Management, Standing Committee on Highway Traffic Safety, Special Committee on Wireless Technology and Subcommittee on Systems Operation and Management;

• Develop and conduct forums, exchanges, and symposiums building on the successes of the past, i.e., the 2007 and the 2009 Winter Maintenance Peer Exchanges and the 2008 TRB/AASHTO Transportation Weather & Snow/Ice Symposium for the interchange of information and identifying environmental concerns and operational research needs among all groups with shared safety, reliability, sustainability and winter maintenance interests; and

• Strengthen workforce development by: 1) providing to the maintenance workforce effective training, exposure to the latest innovations in equipment, materials and operational/managerial techniques and best
method practices; 2) establishing an effective liaison and collaboration with the AASHTO Subcommittee on Human Resources as they implement the findings of the recently completed NCHRP Report 636, "Tools to Aid State DOTs in Responding to Workforce Challenges" (specifically assist them as they populate the Toolkit, "Current Workforce Scenarios and Associated Resource Needs" to insure it reflects the needs of the maintenance community); 3) developing web-based applications for existing computer-based training programs; 4) finishing the development of a Computer-base training program "Performance Measures for Snow and Ice Control Operations"; and 5) investigating other Safety & Reliability technology transfer needs using interactive CBT self paced applications.
HIGHWAYS SUBCOMMITTEE ON MATERIALS

- Chair: Grant Levi, North Dakota
- Vice-Chair: Mark Felag, Rhode Island
- Secretary: Jack Springer, FHWA
- AASHTO Liaison: Ken Kobetsky, Keith Platte

Schedule of New/Updated Publications and Other Activities for 2010:

Publications & Meetings
- Work with TRB to establish formal liaisons between SOM and TRB committees. (Springer/Platte)
- Finalize review of all standards. (Joint AASHTO/ASTM committee)
- Implement SOM Technical Service Program -Develop AASHTO Materials Standards (DAMS) (Platte)
- Developing a training presentation for the SOM on how to write new specifications and test methods (SOM)
- Development of on-line training, to include streaming media, for the SOM website and e-ballot. (Springer/Platte)
- Conduct trial tech section meetings by webinar prior to the summer meeting for tech sections with minimal membership. (Springer/Platte)
- Continue the AASHTO/ASTM Joint Harmonization Cement Task group (Felag)
- SOM representation on Joint Technical Committee on Pavements (SOM Reps/Platte/Springer)

Recycling
- Cecil Jones (NC) has retired and Jim Pappas (DE) has replaced him as SOM lead on recycling.

AMRL
- Report on AMRL effort to clarify requirements in AASHTO standards for equipment calibrations, standardizations, and checks.
- Report on AMRL research program to continue the development of precision statements for a number of HMA test methods.
- Advise SOM on how to specify replacement equipment that does not contain mercury, as needed.
- Provide comments on AASHTO standards by May 1.

APEL
- Status of NCHRP 20-7 study to migrate AASHTO Product Evaluation List (APEL) database to a more robust platform that integrates more easily with State-level Qualified Product List databases. This will eliminate the need for duplicate entering of data into a State’s database and APEL (Platte)

International
- Provide recommendations for 2011 and future scanning tours to Special Committee on International Activities Coordination (Baker/Felag)
- Update on activities on warm-mix asphalt and performance evaluation of the trial sections (Baker)
- Selection of the subjects and participants for international scan tours by FHWA, AASHTO and the AASHTO subcommittees (Kobetsky)

Research
- Submission of the proposed studies for NCHRP 20-7 (Springer/Platte)
- Submission of the proposed studies for NCHRP (Springer/Platte)
Goals for Next 5 Years:

- Annually publish the Standard Specifications for Transportation Materials and Methods. (Platte/Grady)
- SOM will work on aligning its work activities with SCOH’s new strategic plan and work towards accomplishing SCOH’s goals (Levi/Felag/Springer/Platte)
- Continue working with FHWA Recycling Task Force and the University of New Hampshire’s Recycled Materials Resource Center to support evaluation, research, and design/use standards for recycled materials in highway applications through 2009 (Pappas).
- Have at least 20 State Qualified Product Lists linked to the APEL database by 2011 (Platte).
- Increase use of Internet and AASHTO Website in standards development, SOM organization and operations, and sharing of technical information through 2011 (Platte/Springer).
- Bring all standards into conformance with standard practice for establishing requirements for and performing equipment calibrations, standardizations, and checks by 2011 (Lenker/Lutz)
- Maintain comprehensive and up-to-date information on existing State materials management systems on SOM Website through 2011 (Geary).
- Work with AASHTO’s publication office to determine the best way for AASHTO to distribute the Standard Specifications for Transportation Materials and Methods through the internet. (Geary/Springer/Platte/Grady).
- Improve and increase the interaction between the SOM and other subcommittees. (Executive Committee/SCOH)

Upcoming Meetings:

- Subcommittee on Materials meeting
  
  August 8 - 13, 2010, Madison, WI
  2011: Burlington, Vermont
  2012: AASHTO Region 2

- Duration: 5 days (Sunday evening to Friday noon) held the first full week of August
- Note: Meetings of the subcommittee’s 21 technical sections are included as part of this meeting (3 days)
- Frequency: Subcommittee meeting occurs once per year, but a brief second meeting is held during the Transportation Research Board meeting in January to update subcommittee members on important issues.
Summary of Planned Activities and Proposed Publications for 2010:

1. FHWA/NCHRP Project Panel 20-36 International Scan
   Implementation of Scan ideas associated with International Scan entitled, “Integrating and Streamlining R/W and Utility Processes with Planning, Environment and Design” (funding under the NCHRP Project Panel 20-36 program) remains on-going. The field work for the scan was completed during 2008. Gerry Solomon, then Director of FHWA Office of Real Estate services served with Subcommittee Chairman, John P. Campbell as Co-Chairman of the International Scan team. The scan team has finalized the scan report and scan implementation plan. As part of the scan implementation plan, a number of activities including pilot programs and further research efforts will be undertaken to implement, analyze, and evaluate ideas intended to achieve the scan objectives.

2. FHWA/NCHRP Project Panel 20-36 International Scan
   Field work for the International Scan on Outdoor Advertising Control Best Practices, Policy and Implementation was completed in March, 2010. The Scan team will continue the process of developing the scan report and scan implementation plan. Matthew DeLong, Subcommittee Vice-Chair for Right of Way, and Mary Jane DeLauge, FHWA Central Office Realty Specialist, were co-chairs of the Scan Team. The twelve member scan team, made up of federal, state, local, academic, and private sector members, traveled to Australia and Europe to review Outdoor Advertising Control Issues in three states - and seven countries - Australia (States: New South Wales, Victoria, Queensland), Sweden (with the Finland and Denmark’s road authorities also participating), the Netherlands, Scotland, and Great Britain. The Team is currently developing the Scan report and the Scan Team Implementation Plan. The final report should be available in the fall of 2010.

3. Turbo Relocation Product Development
   "Turbo Relocation" is a proposed AASHTOWare, expert system application being developed to provide an interactive application for use by professional relocation assistance service providers. Successful implementation of the Turbo Relocation product will result in a practical tool for use by the relocation assistance practitioner to assure consistency in the calculations and professional advisory services offered by state DOT’s in compliance with the “Uniform Act”. The “Turbo Relocation” concept envisions the development of a software product similar in function to “Turbo Tax” with built in component “calculators” to assist in the calculation of relocation assistance benefits and payments.

   13 States have committed to participate in the development of the “Turbo Relocation”, AASHTOWARE product. The following members of the “Turbo Relocation” task force have been selected in recognition of their right of way expertise and experience providing relocation advisory services in compliance with the “Uniform Act”:

   - Sabra Mousavi, Arizona DOT (Chair)
   - Arnold Feldman, FHWA Project Liaison
   - Gina Anthony, Maryland SHA
   - Walter Mabry, Mississippi DOT
   - Carmen Reese, Idaho DOT
   - James Braden, Arkansas DOT
   - Annette McCrorey, South Carolina DOT
   - Kelly Ramirez, Michigan DOT
   - John Bennett, Alaska DOT
The RFP was published in November, 2008 and closed in January 2009. The task force selected BEM to develop the software and Special Committee on Joint Development (SCOJD) approved the selection in March 2009. The Task Force is actively working with BEM on the software development. A presentation and demonstration of the Residential Module will be presented at the 2010 AASHTO R/W Conference in San Diego. Alpha testing will commence in April 2010. Arizona and Mississippi will be the Beta testing states with product completion and delivery scheduled for the fall 2010. The product licensing fees and options have been established to provide licensing opportunities to the greatest number of users. Licensing information will be available in the AASHTOWare Catalog. The product is designed to be used by novice and experienced agents. Its tutorial aspect will assist new agents collect and document files properly, while ensuring calculation accuracy and shortening the review time required by management.

4. Research Studies and Pilot Project Initiatives
The Subcommittee, in cooperation with FHWA will continue to participate and assist in the distribution, marketing and implementation of work product from research and pilot project initiatives. Current research initiatives include two projects selected for NCHRP 20-7 funding.

NCHRP 20-7, Task 247 – “Outdoor Advertising Sign Regulation Study”
The objective of this research is to identify, compile and report on the standards, measures, practices and enforcement of control of outdoor advertising signs in the various states. The following team members have been selected for Task 247:

- John Garner, Florida
- Matt DeLong, Michigan
- Lyle McMillian, Utah

NCHRP 20-7, Task 248 – “Utility Encasement Policy for Highway Crossings”
The objective of this research is to determine if current DOT encasement policies are appropriate. If it is determined that uncased utility highway crossings are a safe alternative to encased crossings, criteria for uncased crossings will be developed. The following team members have been selected for Task 248:

- Chuck Schmidt, New Hampshire
- Ray Lorello, Ohio
- Robert Memory, North Carolina
- Robert Lee, Alabama
- Paul Scott, TRB Representative

NCHRP 20-07/Task 269 – “Feasibility of Using Incentives to Facilitate Utility Relocations”
The objectives of this research project are to (a) document experiences State DOTs have had 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.

Additionally, various other research projects are underway through the FHWA’s Surface Transportation Environment and Planning (STEP) Cooperative Research Program and include:

Integrating Visualization Technologies into R/W Processes - The research is to determine the extent of the use of visualization technology, the type of software and hardware being utilized by the State Departments of Transportation (DOT) and to develop and share best management practices, tools, and techniques to further promote usage of visualization within the State

R/W, Design-Build, and Acquisition Project Delivery Models – The research is to identify methods used for R/W acquisition and relocation assistance in design-build contracting and to evaluate the need for regulatory changes and development of best practices. The research was completed in fall 2009. Results will be posted by the Office of Real Estate Services in May 2010. Implementation planning will continue throughout the year.
Development of a Right of Way Competency Navigator and Capacity Building and Training Curriculum
Clearinghouse provided on the FHWA Website - The research has produce the framework for a clearinghouse of right of way training available as a resource to right of way professionals. Please visit the Right of Way Competency Navigator on the FHWA website at: http://www.fhwa.dot.gov/realestate/lpaguide/index.htm

Relocation Assistance Retrospective Study - This research is to perform a retrospective survey of costs businesses incur as a result of being relocated and determine percentage of businesses that remain in operation following relocation. Quantitative and qualitative data analysis will be employed to assess consistency and the adequacy of Uniform Act benefit levels. This research is expected to begin in the fall of 2010.

Identification and Development of Local Public Agency Stewardship Tools and Techniques – The research, included the development of a National Highway Institute (NHI) instructor led, training course. This research initiative also delivered the substance for an update of the FHWA LPA Guide available on the Office of Real Estate Services Website at: http://www.fhwa.dot.gov/realestate/lpaguide/index.htm

Commercial Electronic Variable Message Sign (CEVMS) and Driver Attention - This research is a study of the effect of commercial electronic variable message signs on driver attention and potential risk to safety. The primary focus is the effect of CEVMS on driver behavior. The first phase identifying prior work and preparing a research approach to study effects was completed in January 2009. Testing and data analysis under Phase 2 is scheduled for completion in the summer of 2010.

FHWA Peer Exchange on Use of Right of Way Incentive Payments - The results of the 2008 peer exchange are now available at: http://www.fhwa.dot.gov/realestate/incpeerexch.htm. Several State DOTs have made use of incentive payments and share their insights and lessons learned. Each DOT set up a process and received approval by the FHWA Division office, using unique procedures that reflect its needs.

Emerging Practices, Alternative Fuel Technologies, and Energy Facilities in the Right of Way. The research seeks to develop and provide State DOT’s with information that presents materials on the state of the practice when considering the implications of accommodating alternative energy technologies and alternative fuel facilities in the right of way. This research is scheduled to begin in May 2010 and is expected to be completed within 12 months.

5. Technical Councils
The primary objective of the Technical Councils is to expand the communications network among the membership and thereby establish the means for greater participation by those actively engaged in right of way and utility operations.

At the January 2010 meeting of the Subcommittee Executive Board, the organizational structure of the technical councils was reviewed and the subject areas modified to focus on current priorities and emerging issues. There are 9 standing technical councils organized by subject area. Each of the standing Technical Councils is chaired by a state R/W or Utility Director. A new Technical Council on Professional Development and Education was proposed with interim assignments of Wayne Rizzo, DE, Lyle McMillian, UT, Phil Copeland, GA and Robert Memory, NC agreeing to organize the council’s initial scope of activity, strategic objective and to nominate the Technical Council Chairman.

- “R/W Appraisal and Appraisal Review”, John Sherman, MAI, Wyoming DOT
- “R/W Acquisition and Program Management”, Rebecca Krugman, Wisconsin DOT
- “R/W Property Management”, Richard Allen, Connecticut DOT
- “Relocation”, Sabra Mousavi, Arizona DOT
- “Outdoor Advertising”, John Garner, Florida DOT
- “R/W and Utilities, Scoping and Mapping”, Robert Memory, North Carolina DOT
- “Utility Coordination, Relocation and SUE”, Jesse Cooper, RPLS, Texas DOT
- “Utility Accommodation”, Mike Mariotti, New York DOT
- “Utility Safety”, Jeff Baker, Georgia DOT
Each Technical Council meets at least annually in a teleconference format. In 2009, the AASHTO toll free number was utilized by the councils, reducing costs for participants. At the 2010 Subcommittee annual meeting, the councils will meet in a group format with a meeting for the Utilities area and the Real Estate Area (including outdoor advertising). These meetings will be teleconferenced with the objective to extend outreach and encourage greater participation by those most directly engaged in program operations and project delivery. Individual Technical Councils will follow-up on the group meetings with efforts to gain participation from lower level staff members from each state. Inclusion of first line supervisors and front line workers (where appropriate) will expose more people to the AASHTO network and provide a greater resource base for collaboration by member states.

6. Strategic Communications and Information Exchange
The Subcommittee will continue to maintain and expand resources to facilitate information exchange among the membership and contribute to an overall Strategic Communications network.

The key components of the subcommittee Information Exchange resources include:

- The Subcommittee website located at http://rightofway.transportation.org/, developed and maintained by the voluntary efforts of the subcommittee membership.
- Establishing and maintaining a very active “on-line Clearinghouse” resource for query, compilation and distribution of the results from topic-specific, surveys submitted by R/W and Utility members. The “Clearinghouse” function is currently managed by the voluntary efforts of the Michigan DOT who also compiles, publishes, and distributes the responses for use by the membership. A comprehensive index, with links to the full text of each web survey is available at the above link to the subcommittee website. The following is a representative listing of survey topics and the states that submitted them during FY 2009 through present.

  • State Policy for Regulating Cell Towers on Public Right of Way, GA DOT
  • Estimating Utilities for Residential Rentals, GA DOT
  • Estimated Duration to Obtain Rights Along Federally Funded Reconstruction Project, ME DOT
  • Practice for Commissioning Appraisals, CT DOT
  • Improve Right of Way Acquisition Process and Build Relationships with Property Owners, TX DOT
  • Best Practices for Communication Techniques to Improve Collaboration through Peer Exchange*, WI DOT
  • Customer Service Surveys for Right of Way Acquisitions, WI DOT
  • Minimum Compensation for Small Takings, MN DOT
  • Right of Way Compensation Structures, MD DOT
  • Turbo Relocation Software, AZ DOT

The Subcommittee’s current effort to compile and maintain a repository of recent and current study on topics of interest in the right of way and utility areas. This effort is being led by the FHWA Office of Real Estate Services and is referred to above as the Right of Way Competency Navigator and Capacity Building and Training Curriculum Clearinghouse. The intent is to provide a single resource, in the form of a research reference guide, for shared use by subcommittee membership and partners. FHWA expects the competency navigator to be available on its website by June 2010.
7. FHWA Excellence Awards
One of the ways that the subcommittee recognizes and promotes best practices is through the annual presentation of FHWA’s “Excellence Awards” to state recipients in a variety of right of way and utility categories. In 2007 the FHWA established a new schedule for alternating the annual presentation of the “Excellence Awards” to feature utility award recipients one year followed the next year with recognition of right-of-way recipients. This year, FHWA will present the “Excellence in Right of Way Accommodation and Relocation Awards” during the 2010 Annual meeting in Biloxi, Mississippi for the following categories: Urban Highways (Freeways and Expressways, or Surface Streets), Rural Highways (Freeways or Highways), Structures Intermodal Transportation Facilities, Traveler Service Facilities, Project Management, Program and Project Development.

Goals for Next 5 Years:

1. Initiatives for Investment in the Professional Practice of R/W Acquisition
The broad range of professional-level qualifications and experience required for the successful practice of right of way acquisition, demands a priority focus on the growing concern for the recruitment, retention, training, and succession planning of qualified, right of way practitioners. The Subcommittee on Right of Way and Utilities will continue to support opportunities to promote and expand the professional standing of right of way programs and personnel.

2. Succession Planning – Recruit, Retain, and Train the Work Force
The unique circumstances under which most of the current generation’s professional right of way careers have evolved has resulted in a nation-wide concern for the means and mechanisms by which to educate and equip the next generation at an accelerated pace. The norm has been for a series of circuitous paths by which the traditional right of way professional has accumulated the years of experience and exposure to the variety of disciplines necessary to a professional standard of success in the public acquisition of private real property. Today the baby boom demographic trend of accelerating retirements foreshadows a critical void of professional experience, the very means by which the foundation of the national interstate system was successfully acquired and assembled. The profession has also since expanded in scope and complexity due to the passage and implementation of the Federal "Uniform Act" which established the new discipline and corresponding need for professional education in relocation advisory assistance and benefits programs. To further complicate the challenge for the R/W professional is the absence of an established educational curriculum or accredited course of study by which to recruit new entrants to the profession and develop the essential foundations of required expertise.

A point of interest revealed during the 2008 International Scan was the same urgent level of concern for succession planning expressed by our Australian and Canadian counterparts resulting from similar demographic conditions. The good news is the discovery of an even wider, international resource of peer professionals from which to develop strategic solutions to a common global challenge.

The Right of Way and Utilities Subcommittee is committed to training and preparing the next generation of right of way professionals to take over the leadership and improve the standard of practice in the right of way profession. Communication and information exchange will ensure a successful transition in developing in-house expertise, transferring the knowledge base and mentoring the new workforce.

Faced with the challenge of attracting a workforce to the right of way profession coupled with educating and training a new generation of employees is a large task. Designing a framework for succession planning will provide a model that will map a professional career development path for the right of way work force.

3. Professional Education and Training
The Subcommittee in coordination with FHWA and other partners in professional education will expand efforts to develop and update professional education initiatives and partnerships. FHWA has now made available an updated, web-based, course on the “Uniform Act” for use at no cost to all state DOTs, their partners and consultants. The Office of Real Estate Services and FHWA’s National Highway Institute (NHI) currently offer the following courses related to real estate program activities:
The latest course offering is a web-based course on “Outdoor Advertising Control”. Additionally, as noted above, FHWA is pursuing development of a new NHI course on LPA Oversight and Stewardship, and is also exploring opportunities for additional courses in the future.

The Subcommittee has followed the Federal lead and expanded participation with our private partners in professional right-of-way education in order to promote enhanced and consistent quality in training opportunities for both state and industry personnel. This is an ongoing item that will involve a variety of educational programs and providers including the National Highway Institute (NHI), the International Right of Way Association (IRWA), NCHRP initiatives, and AASHTO publications. The Subcommittee supports the initiative by the IRWA to overhaul and modernize course materials and instructional methods.

The Subcommittee will continue to coordinate and work in partnership with FHWA to explore the feasibility for development of a right of way training curriculum, sponsored at the university or college level with particular emphasis on long distanced or web-based learning. In 2010, the FHWA will introduce the Realty Competency Navigator as an interactive web based tool on the FHWA website to identify training available to achieve varying levels of proficiency in the various right-of-way disciplines. FHWA undertook this initiative in conjunction with a steering committee that included the Subcommittee and other stakeholders in the right-of-way field.

4. Integrated Project Delivery
The Subcommittee on Right of Way and Utilities will continue to pursue opportunities to participate in combined forums with other AASHTO Committees and SCOH Subcommittees in order to meet the goal of improving multi-disciplinary coordination in development and delivery of transportation projects. Tentative plans are underway for the first combined annual meeting of the Subcommittee on Right of Way and Utilities with the Subcommittee on Design Missouri in the spring of 2011. The current priority to integrate right of way and utility operations with project planning creates a mutual benefit for interaction with groups such as the Subcommittee on Design, the Standing Committee on Planning, and the Standing Committee on Environment.

The Subcommittee on Right of Way and Utilities continues to support and participate in the Program Delivery Improvement Tool (PDIT) developed in response, and as a component of the U.S. DOT priority for focus on Accessibility and Accountability. The remaining Subcommittee representative on the PDIT team is Jim Viau, Ohio. One of the Right of Way and Utility Subcommittee’s goals for PDIT is to correlate the effectiveness of improved, early communication and coordination with right of way and utility functions as a factor in more effective, timely and cost efficient project delivery.

5. Integrating Geospatial Technology into the Right of Way and Utility Process
The Subcommittee, in coordination with an NCHRP funded study conducted by Virginia Tech, has participated on the “Advisory Council on Integrating Geospatial Technology into the Right of Way and Utility Process.” The first phase of the study was completed in June of 2006 and is currently scheduled for completion and implementation. Current asset management initiatives fuel a growing interest in the graphical representation of spatial right of way and utility features associated with asset inventory data. A benefit of geospatially enabling right of way data and information systems is the ability to respond quickly to management. The applications are getting to the point where managers can obtain answers directly, eliminating staff time required in responding to extra requests. To continue promoting the advancement of transportation agencies’ geospatial technology use for right of way purposes, FHWA sponsored two peer exchanges. The peer exchange report contains a section on the lessons learned and recommendations. It can be accessed at [http://www.gis.fhwa.dot.gov/documents/rightOfWay.asp](http://www.gis.fhwa.dot.gov/documents/rightOfWay.asp)
The R/W and Utilities Subcommittee will continue to actively promote and support implementation of best practices as new technologies and state of the art methodologies emerge or state or Federal laws and regulations change which affect Right of Way and Utilities. Future activity to formally incorporate such enhancements will be accomplished by proposal for amendment to the Right of Way and Utilities Best Practices Guide in the SCOH Strategic Plan, Strategy 4-4.

The successful implementation of ARRA funded projects will continue to be a subcommittee priority. This will include evaluation of streamlining methods and tools to reduce project right-of-way related periods of performance and respond to right of way and utility issues as they arise. For resources related to ARRA, including questions and answers, go to the FHWA website at: http://www.fhwa.dot.gov/economicrecovery/

8. Climate Change
The Subcommittee recognizes an opportunity exists to more effectively include and address climate change in project development and delivery. The Subcommittee will continue to develop or support initiatives that are responsive to potential climatic impacts of projects and programs. Several initiatives are being considered that include potential uses of right of way in ways that are consistent with safe and efficient highway operations. They will look at opportunities for utilization of highway right of way to effect positive climate change. For additional information on climate change go to the FHWA website at: http://www.fhwa.dot.gov/environment/global.htm

9. Transportation Authorization
The current authorization - Safe, Accountable, Flexible, and Efficient Surface Transportation Equity Act: A Legacy for Users (SAFETEA-LU) expired at the end of Fiscal Year (FY) 2009. As a new transportation authorization is developed, a subcommittee priority will be to evaluate implications to the right of way and utility programs, and respond to opportunities to improve and streamline the programs and processes.

10. Livability Initiative
The Subcommittee will work collaboratively with FHWA to advance Livability initiatives and goals. A priority will be to evaluate right of way and utility program opportunities to support the DOT and HUD Livability Initiative to help families gain better access to affordable housing, more transportation options, and lower transportation costs, focusing efforts on creating affordable, sustainable communities. Implementation of the Initiative includes development of an interagency task force to better coordinate Federal transportation and housing investments, and identify strategies that expand choices for affordable housing near employment opportunities and more transportation options to lower costs, shorten travel times, and improve the environment.

11. Every Day Counts
The Subcommittee on Right of Way and Utilities and FHWA will continue to support the Every Day Counts initiative. The focus of the initiative is to identify opportunities and flexibilities that will enable faster project delivery and deployment of technology and innovation.

Upcoming Meetings:
The Annual Meeting of the Highway Subcommittee on Right of Way and Utilities will convene in San Diego, California this spring immediately prior to the spring meeting of AASHTO SCOH. The full membership of the subcommittee is composed of the Right of Way (R/W) and Utility directors for each of the 50 states, Puerto Rico and the District of Columbia, as well as FHWA Liaisons for both Realty and Utility program areas. An estimated 200 attendees and guests are expected to attend the general, break out and Technical Council sessions.

- Dates: April 19 – 22, 2010
- Location: San Diego, California
- Duration: 3½ days
- Frequency: The Highway Subcommittee on Right of Way and Utilities meeting of the full membership occurs annually
The Executive Board of the Highway Subcommittee on Right of Way and Utilities meets annually to conduct mid-year subcommittee business, identify emerging issues and coordinate with FHWA leadership on anticipated Federal program changes and enhancements. The agenda planning session for the annual, spring meeting of the full subcommittee is also conducted at the mid-year meeting of the executive board. This year the Subcommittee will entertain the first joint session of the R/W and Utilities Subcommittee in partnership with the Design Subcommittee.

- Dates: TBD, January 2011
- Location: TBD, Missouri
- Duration: 2½ days
- Frequency: The Subcommittee Executive Board meeting occurs once per year

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

Officers
- Chair: R. Scott Rawlins PE CPM, NV DOT
- Vice Chair: Connie Sorrell, VA DOT
- Secretary: Jeffrey Lindley PE, FHWA
- Liaison: Mark S. Bush PE PTOE, AASHTO

Proposed Schedule

- **New or Updated Publications**
  All existing publications are available on the web.

  As a cross-cutting committee, SSOM continually links with other Special, Standing and subcommittees as appropriate.

  SSOM is approximately mid way through the development and schedule of the new AASHTO Guide on Operations for a prototype deliverable scheduled around December 2010 or early next year 2011 for proposed ratification later in 2011. This Guide is also blazing new groundwork as it will result being an interactive web based AASHTO Guide different than traditional hardcopy AASHTO publications, but just as significant as the Green Book, MUTCD or the like. The goal is also to enhance availability and accessibility of this new key AASHTO publication for communities and agencies involved and dealing with highway operations and systems management that are also DOT partners but are outside of the normal state DOTs. With a vision ‘down the road’ and new authorization perhaps this web based interactive Guide in addition with the SHRP2 Reliability research projects in development and future deliverables will be the cornerstone of possibly the future development of an AASHTO Center of Excellence for Operations.

- **Other Activities For The Coming Year**

  - Develop and refine the program for the SSOM 2010 annual meeting to be scheduled in Houston TX in conjunction with the ITS America Annual Meeting, May 2-5, 2010.
  - Continue to execute business plans for mainstreaming operations in State DOT’s in accordance with established projects and initiatives developed through NCHRP and SHRP2 programs.
  - The SSOM Strategic Plan completed and fully endorsed by the SSOM membership is continually being refined through each of the task forces of Technology and Reliability; Performance Measures; and Mainstreaming Operations Workforce Development to meet the needs of the states and to compliment the initiatives under SCOH and the SCOH newly ratified strategic plan focus areas.
  - Participate and continue to support the Vehicle Infrastructure Integration Consortium and Executive Leadership Coalition, and IntelliDrive Initiative through USDOT and our automotive partners with the core mission of continual improvements in safety and mobility.
  - The VII Consortium and IntelliDrive working group also consisting of various members of the SSOM, has completed an IntelliDrive Strategic Plan to define expectations and actionable items to achieve goals for a cooperative vehicle roadway effort. Many of the states involved with the current VII program have completed some form of strategic activity for their own programs. These states all have partnership efforts, research activities and deployment experience. All of these experiences are in use to develop a coordinated strategic plan to be fluid and updated each year.
  - The SSOM is one of the lead liaison AASHTO committees for the VII and IntelliDrive program. The VIIC AASHTO Strategic Plan has been finalized with the goal also being integrated with the USDOT programs and as much as possible with and in to the automobile industry activities. A current initiative now in initial stages involves the development of an AASHTO IntelliDrive Strategic Deployment program. The purpose of this task is for AASHTO on behalf of state and local agencies to prepare an IntelliDriveSM deployment plan that provides insights and directions that would clarify: 1) what approaches would be practical for IntelliDrive infrastructure deployment, 2) what would the vehicle, communications infrastructure and application environment look like in the future and 3) the advantages and challenges of a phased deployment and a large scale national deployment. All of the relevant AASHTO committees will be briefed.
on the plan once completed including the Board of Directors, the Standing Committee on Highways (SCOH), the SCOH Operations Council and all four Subcommittees under the Council including SSOM, Traffic Engineering, Maintenance and Highway Transport. Other associated relevant committees will also be briefed including the Standing Committee on Highway Traffic Safety, Standing Committee on Planning and Special Committees on Wireless Communications and Technology and Transportation Security Emergency Management as warranted. The Strategic Deployment Plan is scheduled for completion in April 2011.

- Support and participate in the continued implementation of the National Unified Goal in conjunction with the National Traffic Incident Management Coalition. The SSOM is the lead liaison committee along with the Special Committee on Transportation Security and Emergency Management. SSOM is a strong advocate of the National Unified Goal and is committed to working together to promote, develop, and sustain multidisciplinary, multijurisdictional system operations programs including Traffic Incident Management to enhance responder safety, safe quick traffic incident clearance and more prompt reliable interoperable communications. SSOM also works to endorse and engage stakeholders in the 18 strategies of the NUG.

- Participate and continue to provide support to the National Transportation Operations Coalition through efforts and collaboration of the USDOT FHWA and ITS JPO, and ITE in the support of the on-going evaluation releases of the National Traffic Signal System Report card and other related operations initiatives.

- As a cross-cutting committee, continue to liaison with the various external national and international organizations and internal committees to ensure consistency and the best thinking of the Association working cooperatively, as appropriate with other technical subcommittees.

- The NCHRP 3-94 project, development of an AASHTO Guideline for System Operations and Management is midway in its development with the selected panel members and is a key project for the endorsement of SSOM and eventually SCOH. The research results are scoped to be completed by December 2010 or early 2011. A future AASHTO Guidebook planned to be completed is a key project through SSOM and will be cross-cutting and breaking new ground as an AASHTO web based guide to better serve AASHTO customers and transportation entities in fostering a fully integrated operations program in to DOTs. The objective of this research project is to create a strategic guide to developing, evolving, and sustaining transportation system management and operations as a core business practice of State DOTs.

- Synopsis of related System Operations and Management NCHRP research projects and future reports in coordination with SSOM activities, recent NCHRP sponsored projects approved in 2010 for funding by SCOR:

  03-94 Transportation Systems Operations and Management Guide $50,000
  G-09 Support for the AASHTO IntellDriveSM Strategic Plan $500,000

Also recently approved and now in initial stages of development is an NCHRP 20-7 (282) project, Research Needs Assessment for Roadside Worker and Vehicle Visibility. The goal of this initiative is to review existing research, identify knowledge gaps and recommend a comprehensive, multidisciplinary research program roadmap to concurrently address incident scenes and work zones, first responders and construction/work zone personnel, and emergency response vehicles and those utilized for roadway construction and maintenance.

Additional active significant projects with planned membership oversight:

NCHRP 03-94 [Active]
Transportation Systems Operations and Management Guide
NCHRP 20-86 [Active]
Attracting, Recruiting, Developing, and Retaining Skilled Staff for Transportation Systems Operations and Management
NCHRP 20-7 Task 203 [Active]
Update of AASHTO Maintenance Manual to Include Systems Operations and Management
NCHRP 20-7 Task 221 [Active]
Traffic Incident Management Program for Worker Safety
NCHRP 20-7 Task 226 [Active]
Review and Update of Human Factors and Operations Issues in the AASHTO Green Book
NCHRP 20-59(23) [Active]
A Guide to Emergency Response Planning at State Transportation Agencies
NCHRP 20-59 (31) [Active]
Co-Location of Emergency Operations Centers and Intelligent Transportation Centers
NCHRP 20-77 [Active]
Transportation Operations Training Framework

- Additional research also active in the SHRP2 Reliability focus areas related to System Operations and Management:

  - Theme 1. Data, Metrics, Analysis, and Decision Support
    The research conducted within this theme will determine data types, methods of measurement and analytical
tools that will enable the monitoring of travel times and associated reliability permit the development of
performance measures and models that enable the evaluation of effectiveness of actions to control and
mitigate non-recurring congestion. The projects included in this theme are:
Project L02: Establishing Monitoring Programs for Travel Time Reliability and Mobility
Project L03: Analytic Procedures for Determining the Impacts of Reliability Mitigation
Strategies
Project L04: Incorporating Reliability Performance Measures in Planning and Operations
Modeling Tools
Projects L13 and L13a: Design and Implement a System for Archiving and
Disseminating Data from SHRP 2 Reliability and Related Studies
Project L16: Assistance to Contractors to Archive Their Data for Reliability and Related
Projects

- Theme 2. Institutional Change, Human Behavior, and Resource Needs
  Significant reduction of congestion related to non-recurring events will require significant changes to the
internal organization and business practices of transportation and public safety agencies. Historical
relationships among these public agencies and with other organization involved in incident response and
management must also be modified to increase effectiveness. Impact mitigation will require effective
communications with highway users and the modification of counterproductive driver behavior in proximity to
incidents. Research under Theme 2 will address this human side of non-recurring congestion. The projects
include:
Project L01: Integrating Business Processes to Improve Reliability
Project L06: Institutional Architectures to Advance Operational Strategies
Projects L10 and L10a: Use of In-vehicle Video Data to Explore How to Modify Driver
Behavior that Causes Non-recurring Congestion
Project L12: Training and Certification of Traffic Incident Responders
Project L14: Effectiveness of Different Approaches to Disseminating Traveler
Information on Travel Time Reliability

- Theme 3. Incorporating Reliability in Planning, Programming, and Design
  There is an intimate relationship between the frequency of non-recurring congestion related to incidents and
general effective capacity of a highway network or segment. Effective reduction in the frequency and/or
impacts of non-recurring incidents can reduce or delay the need for additions to highway capacity. At present,
however, transportation agencies need improved tools to identify and evaluate the effectiveness of
infrastructure or operational countermeasures or to quantify the impacts of non-recurring congestion on overall
highway capacity. Theme 3 addresses these issues. The projects are:
Project L05: Incorporating Reliability Performance Measures into the Transportation
Planning and Programming Processes
Project L07: Evaluation of Costs and Effectiveness of Highway Design Features to
Improve Travel Time Reliability
Project L08: Incorporation of Non-recurrent Congestion Factors into the Highway
Capacity Manual Methods
Project L09: Incorporation of Non-recurrent Congestion Factors into the AASHTO
Policy on Geometric Design
- Theme 4. Fostering Innovation to Improve Travel Time Reliability
The gains in travel time reliability derived from institutional and behavioral change will be major, but will largely
be one-time, short-term gains. Gains derived from analysis, decision support tools and design responses will
also be large initially and continued research in these areas will produce steady, but less dramatic
improvements. The theme 4 research is designed to foster innovative thinking that will form the foundation for
long term reductions in non-recurring incidents and improvements to travel time reliability.
Project L11: Evaluating Alternative Operations Strategies
Project L15: Reliability Innovations Deserving Exploratory Analysis (IDEA)

- With the adoption and continual refinement of the SSOM Strategic Plan, Task Forces are formally
organized with their work plans:

- **Task Force – Mainstreaming and Work Force Development**
  *(Task Force Lead: John Corbin, WI DOT)*
  *Membership activities also with NTIMC*

- **Task Force – Performance Measures**
  *Task Force Lead: Daniela Bremmer, WA DOT*
  *Membership activities with SCOPM and performance metrics*

- **Task Force – Technology and Reliability Initiatives**
  *Task Force Co-Leads: Ted Trepanier, WA DOT; Gummada Murthy, VA DOT*
  *Membership activities with ITS and IntelliDrive*

- **General Activities for the coming year:**
  A. Coordinate with the other task forces and within the SSOM structure for the development and delivery
  of research products and reports to meet the Mission and Vision of SSOM and compliment the SCOH
  Strategic Plan and focus areas just recently ratified by the membership.
  B. Teleconferences lead by each of the three SSOM task forces, i.e. Technology and Reliability,
  Mainstreaming Operations and Performance Management chairs to incorporate membership input and
  proactively respond to issues related in system operations and management. The task forces have
discussed also the possibility of having a joint web meeting and various support avenues are being
investigated.
  C. Develop research needs statements and participate in active research projects and programs to
  promote and advance strategies in operations and define where gaps exist.
  D. Monitor and assist in the reporting of progress of State DOTs with respect to formal operations and
  system management programs in their strategic business plans.
  E. Promote and advance strategies for travel time reliability within state DOTs by developing outreach and
  marketing material on DOT success stories.
  F. Coordinate activities and membership involvement with other system operations and management
  initiatives either supported by USDOT or other national coalition groups supporting effective operations
  activities, programs and policies.
  G. Actively participate as the lead task force in coordination with the VII Consortium group in the
  development and deployment of the VII or new IntelliDrive program in partnership with USDOT,
  AASHTO and OEMs.

- **Upcoming Meetings**
  - May 2-5, 2010, Houston TX, joint national/international meeting with ITS America Annual Meeting.
  - 2011, solicitations for joint committee meeting and location underway. There is a possible joint meeting
    proposed with ITSAmerica for 2011 depending on the success of the joint 2010 meeting that will combine
    the World Congress and Annual Meeting scheduled in Orlando, FL in order to maximize exposure and
    participation of membership in three joint national meetings.
GOALS

Transportation systems operations and management (SOM) draws on the knowledge of several disciplines—including for example traffic engineering, intelligent transportation systems, maintenance, emergency response and incident management, performance measurement, and system planning—applied in a comprehensive approach to increase the efficiency and safety of the transportation system. SOM encompasses interactions among transportation modes and between the transportation system and other functions such as emergency management, public safety, and the concerns of the general public. SOM contributes to creation and maintenance of livable communities, improving public health by reducing air pollution, saving energy, and supporting economic development, as well as promoting efficient traffic flow.

The AASHTO Highway Subcommittee on Systems Operations and Management defines SOM specifically as “an integrated program designed to make the best use of existing highway infrastructure through provision of systems and services that preserve and improve performance.”

- Successfully continue the major initiative and on-going development of the future AASHTO Guide for Operations for future ratification and implementation.
- The System Operations and Management subcommittee task forces remain active in many major focus areas, including coordination with ITS and IntelliDrive activities, workforce development issues, SHRP2 research program especially in the Reliability focus area and performance management and metrics involving congestion and operations.
- SSOM has also been the lead AASHTO subcommittee and continue coordination of efforts with related national coalition groups involved in system operations and management activities involving TSAG (Transportation Safety Advancement Group), NTIMC (National Traffic Incident Management Coalition), NTOC (National Transportation Operations Coalition), I-95 Corridor Coalition, the Operations Academy through the UofMD in coordination with the I-95 Corridor Coalition, the 511 Coalition and IntelliDrive working groups of ITE, ITSA and AASHTO supported through USDOT FHWA and RITA JPO.
- SSOM is continually involved and providing input to the development of AASHTO’s recommendations on a new federal authorization proposal and efforts on recommendations related to performance management. This includes endorsing a new $3 billion per year Operations program also dedicated to provide low-cost quick turn-around relief for congestion. The Operations and Management program is fully endorsed under SSOM to enhance travel reliability, reduce delay and improve overall system performance. Funding improvements in system performance include: real time system management, traveler information, emergency response and incident management. Eligible activities would include incident management; emergency response; signal synchronization, intersection and street improvements; lane markings and traveler information systems. Approximately 4.5% of core program funding would be apportioned to the states for this program. In addition, including an increase of the current program for funding ITS and operations research at $150 million per year, an increase of 35%.
- In summary, six strategic goals have been identified to support the SSOM Vision and Mission:
  A. Develop and promote resources for State DOTs in providing greater operational reliability, mobility, safety and efficiency on the transportation network
  B. Promote performance measurements of operations for State DOTs to support the necessary business decisions and make informed investment decisions. Quantify benefits and provide the necessary educational and outreach materials and assistance for State DOT policy and decision-makers
  C. Participate in the decisions and direction of technology advancements within State DOTs.
  D. Integrate and mainstream operations in every aspect of the performance of DOTs.
  E. Develop and promote resources for States and AASHTO members to optimize the collection, processes and applications of operational data.
  F. Provide the system operations and management framework to assist DOTs in making business decisions (i.e. getting to the ribbon cutting ceremony.)
HIGHWAYS SUBCOMMITTEE ON TRAFFIC ENGINEERING

(Amended 4/27/10)

Officers
- Chair Del McOmie, Chief Engineer, Wyoming Department of Transportation
- Vice Chair Tom Hicks, Director, Traffic and Safety, Maryland State Highway Administration
- Secretary Mark Kehrli, Director of Transportation Operations, FHWA
- AASHTO Liaison Ken Kobetsky, Program Director, Engineering

Proposed Schedule
Plans for 2010-2011 include continuing work with the NCUTCD, including the mid-year meeting in January, summer meeting in June, and proposed changes to the MUTCD.

The five Technical Committees have the following work plans:

Work Zone
The following items are those now being considered by the SCOTE Work Zone Technical Team for advancing safety and mobility in the work zone. It is expected that these items will be pursued by the Team working closely with other AASHTO Committees and Subcommittees, partner associations, and US DOT, particularly FHWA.

- Recognition of the role of planning, design, construction, operations, maintenance in work zone strategy development and execution.
- Determination of knowledge gaps through self-assessment, performance measurements, and consultation with others.
- Support of field testing of strategies and traffic control methods.
- Continue to develop listings of successful practices (Guidebook).
- Review and apply results from the 2010 Work Zone Domestic Scan.
- Continue to develop needed training initiatives with ATSSA and others.
- Develop follow-up comments to the recently published 2009 MUTCD.
- Explore opportunities for changing driver performance/behavior in the work zone.
- Review and consider the experience of states that have applied work zone automated enforcement strategies.
- Continue discussions on the application of the FHWA Final Rules on Work Zone development and deployment activities.
- Enhance the application of ITS technologies in the work zone.
- Discuss the role of law enforcement in the work zone.
- Discuss the role of public relations and community communications in the work zone.
- Review project contract documents for applicability in today’s highway transportation environment.
- Revisit short-term and mobile work zone operations – traffic control strategies and devices.
- Review compliance with SCOH Strategic Plan for meeting safety and mobility goals.
- Enhance communications and working relationships with other AASHTO Committees and Subcommittees.
- Enhance communications and working relationships with partner agencies and associations for work zone safety and mobility matters.

The following five areas of particular importance to the Work Zone Technical Team and to SCOTE:

- Identify and facilitate use of emerging research technologies, materials, processes, and program.
- Promote accountability through performance-based management.
- Significantly reduce crashes in work zones.
- Explore feasibility of demonstration projects using ITS technologies for work zone traffic management; adaptive/responsive systems.
- Work hand-in-hand with AASHTO committees/subcommittees, outside partners, and SCOTE Technical Teams.

Signing and Marking
The SCOTE Signing and Marking Technical Team met in Manchester, New Hampshire on June 16, 2009.

Accomplishments in 2009 and items discussed included:

- Completion of an informational pamphlet “Are Your Signs Working for You?”
- Airport Way finding.
- NPA items in the soon-to-be-issued MUTCD.
- Digital billboards as a driver distraction.
- Methods for meeting sign retro-reflectivity requirements.
- Use of colored pavements.
• Methods to address WRONG WAY crashes.
• Letter height on Changeable Message Signs (“blooming” – pixel LED’s versus physical measure).
• Update of “Guidelines for Installation of Supplemental Guide Signs Adjacent to the Interstate”.
• Combining real-time data with guide signs
• Ways to combine the efforts to address issues of SCOTE and SSOM

Work Plan for 2010-2011

• Distribute the “Are Your Signs Working For You?” to practitioners by working with AASHTO Headquarters.
  o Note: This activity also fits the AASHTO Strategic Plan (AASHTO-SP) goal to communicate standards.
• Explore Project 20-7(11) “Use of Colored Pavements for Special Use and/or Users.” This will require the team to work closely with the Markings Committee of the NCUTCD, and will begin in June 2010.
  o Note: This item applied to AASHTO-SP goal to reduce congestion through improvements to multi-modal transportation systems.
• Work with FHWA and NCUTCD Technical Committees on Airport Way finding uniformity efforts.
  o Note: This activity also addresses communication of standards.
• Continue to investigate the various aspects of driver distraction including digital billboards and other graphic displays.
  o Note: These efforts are related to the overriding goal to reduce fatalities and injuries on our highways.
• Collect the information and report on how states are complying with the retro-reflectivity requirements for signing.
• Explore the use of travel time data on dynamic guide signs.
  o Note: This applies to AASHTO-SP goals of utilizing technology and addressing congestion through its use.
• Continue to work closely with the NCUTCD on issues related to both signs and markings in the 2009 edition of the MUTCD.

Traffic Design, Regulation and Management

• Automated Enforcement. The technical team will continue discussions concerning the issues of automated enforcement. The team identified the need for a guideline or a best practices report to specify standards that should be used in red light running applications. An NCHRP synthesis is presently underway that may provide the information necessary to accomplish this need. The team will monitor the progress of this synthesis and will evaluate it when completed.
• Bicycle Guideline. The technical team will monitor the development of the Bicycle guideline and will report any issues to SCOTE - and a recommendation for subcommittee approval.
• Speed Operational Issues. A technical team member will review the latest research on the issue of design versus operational speed and will report to the team at the next annual meeting. Distribution of information to the SCOTE committee on this subject will be made when appropriate.
• Driver’s Handbook. The team will review the material developed for State Driver’s Manuals on the subjects of Older Drivers, Trucks, Work Zones, Bicycles, and ITS as part of NCHRP 20-07 Task 212. The final write-ups will be presented to the SCOTE committee.
• Roundabout Design Issues. A review of existing state programs regarding the criteria used for selecting a roundabout over a traffic signal will be conducted along with a review of the revised guideline to be issued by FHWA. A report of the findings will be presented to the SCOTE committee.
• Congestion Mitigation Strategies. A review of the use of adaptive signal systems to improve congestion on traffic arteries will be conducted. The use of these systems appears to have great potential to improve congestion and to reduce gas consumption. There is an NCHRP synthesis beginning on this subject and could provide the information desired. Ed Fisher (Oregon) will represent the technical team on the panel for this synthesis. Information from this synthesis will be discussed by the task force and information will be distributed to the SCOTE committee.

Traffic Signals and Roadway Lighting

Status and Work Plan

• The SCOTE Traffic Signal Technical Team has two active NCHRP 20-7 projects that we are providing oversight and guidance on:
  o NCHRP 20-7/Task 271 – Graphic Traffic Signal Design Aid based on the MUTCD. The contractor (University of Idaho) has developed templates and is currently incorporating materials from the 2009 MUTCD. We hope to have a prototype prior to the June meeting.
  o NHRP 20-7/Task 283 – Evaluation of Flashing Yellow (FYA) Permissive Left Turn in Shared Left Turn in Shared Yellow Signal Sections. The Contractor (University of Wisconsin) has sent in responses to questions from the technical team. The contract is being finalized and work is anticipated to begin around June 2010.
The Traffic Signal Team will continue for the next one-two years to provide input, guidance, and oversight on these two projects to bring them to completion.

- Our work plan for the June 2010 meeting will be to evaluate the status, discuss, and provide input as needed. We will also update the SCOTE members as to the status and progress.

Safety and Security

- Perform literature search, survey of states on emerging safety treatments including rumble stripes and strips, median barrier, special curve warning treatments, recovery area methods and advance warning for end of green (flashing indication).
- Continue to liaison with leadership of the Highway Safety Subcommittee to determine roles and possible joint meeting.

Upcoming Meetings

June 2010, Chicago, IL
June 2011, Boise, ID
AASHTO Task Force to Develop the Highway Safety Manual (HSM)

Officers

- Chair: D. W. Vaughn
- Vice Chair: Priscilla Tobias
- AASHTO Liaison: Ken Kobetsky

Work on the Highway Safety Manual, First Edition is complete, and the document has been transmitted to AASHTO for editing and printing. Since the Joint Task Force work is complete and are now awaiting approvals from SCOH and others, the committee recommends that the JTF sunset after all approvals have been made.
TECHNOLOGY IMPLEMENTATION GROUP

Officers:

Chair    Kevin Chesnik
Vice Chair  Vacant
Secretary  Byron Lord
AASHTO Liaison Keith Platte

New Implementation Activities:

• Selection of Two/Three New Focus Technologies
• Selection of Two or Three Additionally Selected Technologies

Note: The above selections will be made at the TIG Spring Meeting

Other Activities:

• Close out Focus Technologies that have accomplished their team objectives.

Goals for Next Five Years:

• Expand TIG’s technology forecasting ability by strengthening ties with State, Federal, and AASHTO research entities.
• Promote coordination with Transportation partners (FHWA, Industry, etc) to implement TIG Technologies within in the transportation community.
• Be the leading voice of technology transfer activities in the transportation community.

Future Meetings:

• October 28, 2011, Biloxi, Mississippi
NTPEP OVERSIGHT COMMITTEE

Officers
Chair: Christine Reed (Illinois Chief Engineer)
Vice Chair: Tom Baker (Washington State, Materials Engineer)
AASHTO Liaison: Keith Platte, Program Director of Materials and Product Evaluation
Greta Smith, NTPEP Senior Project Engineer
Katheryn Koretz, NTPEP Project Engineer
Evan Rothblatt, NTPEP Manufacturing Auditor
Henry Lacinak, NTPEP Staff Liaison

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

Proposed Schedule

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 face-to-face and 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 departments. 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 a NTPEP Executive Committee (EC), representing each of the AASHTO regions, is selected by the NTPEP Chairman.

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

Schedule of NEW Activities for FY11 Program Year:

During the 2010-2011 calendar year, NTPEP intends to conduct major field demonstration projects and nationally-coordinated laboratory testing in the following product categories.

| NTPEP TEST DECKS (MAJOR PROJECTS TO INITIATE, 2010-2011 CYCLE) |
|---------------------|----------------|------------------------------------------------------------------|
| #                   | Due            | Lead States                        | Description of Activity                                           |
| 1                   | March 2010     | Minnesota, Missouri                | Coordinate laboratory evaluations of concrete admixtures. Publish and distribute final report. |
| 2                   | March 2010     | Minnesota, Kansas                  | Coordinate laboratory evaluations of concrete curing compounds. Publish and distribute final report. |
| 3                   | April 2010     | Virginia, Louisiana, Minnesota, Arizona and Missouri              | Coordinate, fabrication and install test panels for 2010-2012 cycle of testing for sign sheeting materials. Field evaluation racks are at four locations nationally. Publish previous year's data on DataMine. |
| 4                   | April 2010     | Louisiana, Minnesota, Arizona and Missouri                           | Coordinate, fabricate, and install 2010 "Roll Up Signing Materials" test deck at three field locations. Evaluate products and publish reports. |
| 5                   | August 2010    | Tennessee                           | Coordinate, install, and evaluate summer 2010 – winter              |
## NTPEP Test Decks (Major Projects to Initiate, 2010-2011 Cycle)

<table>
<thead>
<tr>
<th>#</th>
<th>Due</th>
<th>Lead States</th>
<th>Description of Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>May-July 2010</td>
<td>Minnesota, New York, Louisiana, Pennsylvania, and Wisconsin</td>
<td>Coordinate, install, and evaluate a pavement marking deck in Minnesota. Conduct routine readings on test decks installed in previous years. Perform laboratory testing. Data for this TC is posted data online via DataMine.</td>
</tr>
<tr>
<td>7</td>
<td>Fall 2010</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. Publish and distribute reports.</td>
</tr>
<tr>
<td>8</td>
<td>Fall 2010</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. Publish and distribute reports.</td>
</tr>
<tr>
<td>9</td>
<td>Fall 2010</td>
<td>Ohio, Kansas, New York</td>
<td>Coordinate, install, and evaluate rapid set concrete patch field test deck. Conduct laboratory testing on products. Publish and distribute reports.</td>
</tr>
<tr>
<td>10</td>
<td>January 2011</td>
<td>Tennessee</td>
<td>Coordinate, install, and evaluate winter 2009 – summer 2009 flexible delineators and work zone drums field and laboratory testing. Publish and distribute final report.</td>
</tr>
<tr>
<td>11</td>
<td>February 2011</td>
<td>North Carolina</td>
<td>Coordinate field evaluation of portable changeable message signs and flashing arrow panels. Publish and distribute a final report.</td>
</tr>
<tr>
<td>12</td>
<td>QUARTERLY</td>
<td>New York, Washington</td>
<td>Quarterly solicitation and laboratory evaluation of geotextiles. Publish and distribute hard copy test reports and post results via the Internet and NTPEP DataMine.</td>
</tr>
<tr>
<td>13</td>
<td>QUARTERLY</td>
<td>Wisconsin, TRI/Environmental</td>
<td>Quarterly solicitation and laboratory evaluation of Erosion Control Products. Publish and distribute electronic copy test reports and post results via the Internet and NTPEP DataMine.</td>
</tr>
<tr>
<td>15</td>
<td>ONGOING</td>
<td>NTPEP, TRI/Environmental Kansas and Washington</td>
<td>NTPEP Audit Program (NAP) for Plastic Pipe is schedule to conduct 35 audits in calendar year 2010. NAP produces electronic reports from each audit.</td>
</tr>
<tr>
<td>16</td>
<td>ONGOING</td>
<td>NTPEP and Texas</td>
<td>Begin NAP for Rebar on reinforcing steel plants. Currently there are 23 plants scheduled in calendar year 2010. NAP produces electronic reports for each audit.</td>
</tr>
</tbody>
</table>

### Ongoing Activities supporting NTPEP expansion and promotion:

NTPEP staff maintains the committee website, [http://www.ntpep.org](http://www.ntpep.org). The program’s success is largely due to public-private partnerships. Therefore presentations are made at various regional and national conferences and liaison reports are provided to other AASHTO committees.
Goals for Next 3 Years:

- Increase 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 organization to handle program growth.
- Work with the National Electrical Manufacturers Association (NEMA), the Institute of Transportation Engineers (ITE), and other AASHTO subcommittees to create a national testing and evaluation program for Light Emitting Diodes (LEDs) and signal controller boxes.

Upcoming Meetings:

- NTPEP 2011 annual meeting of the NTPEP Committee
  - Dates: May 2-6, 2010
  - Location: San Antonio Texas

- NTPEP 2012 annual meeting of the NTPEP Committee
  - Dates: May 3-7, 2012
  - Location:
SPECIAL COMMITTEE ON US ROUTE NUMBERING

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

Members:
- Ken Sweeney, ME - Region 1
- Kevin Keith, MO - Region 3
- Cathy Nelson, OR - Region 4
- Marty Vitale, AASHTO, Secretary

- Policy and Procedures for U.S. Bicycle Routes is complete.
- Application for U.S. Bicycle Routes is complete.
- Update 1989 Edition of U.S. Route Numbering publication using NCHRP funds is still a work in progress. An online database is currently functioning.

Expected Goals for Next 5 Years:
- Publish and promote a new edition of the U.S. Numbered Highways for availability on the internet as an AASHTO historical record.
- Update the U.S. Numbered Highways continuously as applications are approved and processed.
- Continue to update and expand the Special Committee on U.S. Route Numbering. Website

Upcoming Meetings:
- Special Committee USRN
  - Annual 2010 Biloxi, MS
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

Proposed Schedule

**Other Activities For The Coming Year**
- Committee members will receive training on radio propagation coverage, frequency interference studies, line-of-sight microwave system engineering, the radio frequency coordination process and FCC license applications, and much more at the 2010 annual meeting, conducted by Peter Moncure of Radiosoft.

**Upcoming Meetings**
- August 22 - 26, 2010, Committee meeting, Irvine, California

GOALS

The Special Committee on Wireless Communications Technologies will continue developing a training program leading to accreditation as an AASHTO Certified Frequency Coordinator.

The Committee strives to establish a better method for establishing and maintaining a shared knowledge data base of the equipment, technologies and methods used in wireless systems to support the members’ voice, data, ITS and other communications requirements. Part of this initiative is the development of the Radio 101 informational briefing.

The Committee will conduct an internal study of participation trends by the wireless and communications professionals within the member states with the SCOWCT and discuss methods and programs to increase participation with the national group.

The Committee emphasizes the need for all departments to maintain a trained staff of wireless and communications professionals, with the necessary visibility within the organizational structure to be incorporated in their department’s current and long range programs that can benefit from modern wireless communications technologies. This includes the need to support their attendance at AASHTO events and relevant trade shows that will help maintain currency of technical expertise in this most rapidly changing field.