SPRING 2006 — PRESENTATION

MAY 6, 2006

SUBCOMMITTEE ON BRIDGES AND STRUCTURES
HIGHWAYS SUBCOMMITTEE ON CONSTRUCTION
HIGHWAYS SUBCOMMITTEE ON DESIGN
HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT
SUBCOMMITTEE ON MAINTENANCE
HIGHWAYS SUBCOMMITTEE ON MATERIALS
HIGHWAYS SUBCOMMITTEE ON RIGHT OF WAY AND UTILITIES
SUBCOMMITTEE ON SYSTEMS OPERATIONS AND MANAGEMENT
HIGHWAYS SUBCOMMITTEE ON TRAFFIC ENGINEERING
TASK FORCE ON CONTEXT SENSITIVE SOLUTIONS (CSS) WORK PLAN
TECHNOLOGY IMPLEMENTATION GROUP
NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPEP)
SPECIAL COMMITTEE ON INTERNATIONAL ACTIVITY
SPECIAL COMMITTEE ON U.S. ROUTE NUMBERING
SPECIAL COMMITTEE ON WIRELESS TECHNOLOGY
HIGHPWAYS SUBCOMMITTEE ON BRIDGES AND STRUCTURES

Officers

- Chair: Malcolm T. Kerley (Virginia)
- Vice Chair: James A. Moore (New Hampshire)
- Secretary: M. Myint Lwin (FHWA)
- Assistant Secretary: Firas I. Sheikh Ibrahim (FHWA)
- AASHTO Liaisons: Ken Kobetsky/Kelley Rehm

Review of Subcommittee charge statement

Existing

No change to existing charge statement

Annual Meetings

Throughout the year, various Technical Committees held interim meetings to facilitate the business of the full subcommittee in support of actions taken during the past Annual Meetings. The most notable activity was that of the Technical Committee for Seismic Design (T-3) which met to review a 90% draft of the new seismic LRFD design specification. The committee is currently developing a work plan to set milestones for improving the LRFD seismic design specifications and practice.

On April 18-20, 2005, a workshop was held in Woods Hole, Rhode Island to update the 1999 Strategic Plan for Bridge Engineering to meet the changing needs of bridge engineering through a streamlined research program. The updated plan was adopted at the 2005 SCOBS meeting in RI and published in June 2005. It includes seven prioritized grand challenges: Extending Service Life, Optimizing Structural Systems, Accelerating Bridge Construction, Advancing the AASHTO Specifications, Monitoring Bridge Condition, Contributing to National Policy, and Managing Knowledge.

The new SCOBS executive committee held its first meeting during the 2005 SOBS meeting in RI. The Committee, which is comprised of the SCOBS officers and technical committee chairs and chaired by SCOBS chair - Malcolm Kerley, was formed to assist the SCOBS Officers in making business decisions, planning, and setting priorities, as well as improve communications between the technical committee leadership and chairs and to resolve issues of importance to SCOBS.

The 2006 Annual SCOBS Meeting will be held from May 21-26, 2006 in Snowbird Utah. 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. During the upcoming general session meeting, the full subcommittee will be voting on 31 agenda items.

Future meetings of the subcommittee have been scheduled in the following states: 2007 in Delaware, and 2008 in Louisiana, 2009 in Nebraska, and 2010 in California. Other future subcommittee meetings have been tentatively scheduled in the following states: 2011 in Virginia, 2012 in Texas, and 2013 in New Jersey.

Schedule on New/Recent/Updated Publications


SCOH Agenda Item V. B. Through E. Committee Work Plans
Jekyll Island, GA — May 6, 2006


Goals for the Next Five Years

SCOBS main focus for the next couple of years continues to be the successful implementation of the LRFD design specifications. The target for full implementation of the LRFD specifications is October 2007 for new highway bridge designs for federally funded projects. It is hoped that all new projects will use this specification regardless of funding.

To support and oversee the implementation of LRFD, the LRFD Oversight Committee was created a few years ago. Primary activities being facilitated by the Oversight Committee include maintenance and enhancement of the LRFD Specifications, identification of and support for development of needed educational and training materials, design examples, formal training courses, and limited applied research. This committee is chaired by SCOBS vice chair Jim Moore.

SCOBS secondary focus will continue to be the 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. The LRFR methodology will be included in the new Manual for Bridge Evaluation, which was adopted during the 2005 annual SCOBS meeting. No formal target has been set yet for full implementation of the LRFR methodology.

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

With the increasing demand and need for design and construction guidelines for tunnels, SCOBS recently formed a technical committee for tunnels (T-20 chaired by Harry Capers - NJDOT). This technical committee is working with the FHWA and others on guidelines for tunnels. In 2005, AASHTO, FHWA and NCHRP sponsored an International Scan on Underground Structures Safety and Security. The Scan team visited Norway, Denmark, Sweden, France, and Switzerland and had meetings with representatives from The Netherlands, Germany, Italy, and Austria. The focus was on equipment, systems, and procedures incorporated into modern underground and underwater tunnels by leading international engineers and designers and identified a number of underground transportation system initiatives and practices that varied from those in the U.S. in some respect. Nine of these initiatives, related to human factors, planning, design, and incident and asset management are recommended for possible implementation in the U.S.A.

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.
In the wake of bridges damaged during the past hurricane seasons (Ivan and Katrina), SCOBS is proposing an AASHTO-FHWA Task Group on Bridge Wave Loading. This group will lead the development and execution of a roadmap that includes a set of research studies and technology transfer activities to fully achieve a rational approach that addresses wave force and storm surge vulnerabilities in existing and new structures, and to develop design specifications for coastal bridges vulnerable to scour and hydrodynamic forces.
HIGHWAYS SUBCOMMITTEE ON CONSTRUCTION

AASHTO SOC Officers
Chair: Len Sanderson, NCDOT
Vice Chair: Thomas R. Bohuslav, TxDOT
Secretary: Tommy Beatty, FHWA-DC
AASHTO Liaison: Jim McDonnell

Review of SOC Charge Statement
No change.

Proposed Schedule (Specific task deadlines are August 2006, if not otherwise stated.)

New or Updated Publications
1) The SOC is updating the AASHTO Guide Specifications for Highway Construction. The expected adoption date is August 2006.
2) Develop a guide specification and contract language on stakeless construction utilizing survey conducted in 2005, data gathered in the NCHRP Synthesis Project 37-06, and any other state of the practice information. Develop a problem statement for standardization of survey data between survey, design, and construction. Expected completion date for this phase is August 2006. Computers and Technology Section
3) Complete the update of the Fifth Edition of the “Primer on Contracting for the 21st Century.” Contract Administration Section
4) Continue to build on the usefulness and content of the “Tid Bits” newsletter for DOT’s. Roadways and Structure Section Lead

Other Activities
General
1) Develop the program for the SOC 2006 summer meeting in Puerto Rico, July 30 through August 3.
2) Serve on the NPHQ Steering Committee, NWHS update, Highways for Life Task Force, and the Design Build Joint Committee.
3) Work with FHWA to address AASHTO member concerns on PDAT.
4) Submit and participate in Domestic Scan program, including ROW and Utilities Domestic Scan topic.

Computers and Technology Section (Tucker Ferguson, PennDOT)
1) Continue to provide information to AASHTO website.
2) Continue to provide leadership, extension, and guidance for the enhancements of the AASHTO Trans?Port software, and incorporate the VDOT pilot project of migrating Trans?Port to a web based application.
3) Provide representation to the NICET Steering Committee and the Civil Rights module for Trns?port Task Force.

Contract Administration Section (Cal Gendreau, NDDOT)
1) Capture best practices for capturing unit cost information on lump sum contracts.
2) Survey the states regarding the availability of State “precluded from bidding” or State “Suspension/Debarment” lists. Provide this information to FHWA for posting on their Suspension / Debarment web site. (The FHWA Contract Administration Group already has a few State “precluded from bidding” or “debarment” web sites posted at: http://www.fhwa.dot.gov/programadmin/contracts/sdlinks.htm)
3) Survey the states on issues and practices related to single-bid construction contracts and State DOT efforts to ensure competition. Being performed in conjunction with AASHTO.
Environmental and Human Resource Section (Bob Watson, MaineDOT)

**Environmental Stewardship**
1) Organize a Team for a domestic scan to travel to X number of States to determine BMP’s for erosion and pollution control. Include a question on certifying erosion soil control staff.
2) Survey the states to determine cost (dollars/time) of construction delay after award (post-award) caused by environmental issues.
3) Survey the states to compare tracking systems for environmental commitments and what payment methods are being used.

**Work Zone Safety**
1) Survey the states to determine practices for certifying or prequalifying construction staff, both state and contractor, for implementing Work Zone Traffic Control.
2) Survey the states to determine practices for the use of law enforcement to enhance safety in construction zones.
3) Survey the states to determine who is responsible for Traffic Control Plans (owner or contractor) and how traffic control is paid for (lump sum, contingent sum, unit price). Use of temporary markers for centerline during construction? Removing markings to reduce confusion? Reducing delays and/or accidents? I/D used? Guidance?

**Human Resources**
1) Attend TCCC meeting and coordinate issues of interest with this Section.
2) Report to the Section on the update of NICET’s program. Committee meeting this fall and winter to develop competencies. Erosion training needs to be updated for its certification.
3) The diversity in the construction industry’s workforce is changing. Survey the states to see what they are presently doing to overcome cultural/language/etc. differences to establish being adequately staffed and trained.

Roadway and Structures Section (Kevin Dayton, WSDOT)
1) Develop a catalogue of various practices of reviews (constructability, VE, Contractor solicited input, and post construction feedback) to improve the quality and effectiveness of plan sets. Market the result of this effort to DOTs.
2) Conduct a survey to determine how DOT’s are accomplishing specialty construction inspection (ITS, Bridge Painting). Specifically determine if it is through outsourced means or State resource, the type of certification process used (if any), and the relative cost difference in outsourced services compared to agency staff.

Research Steering Committee (Byron Coburn, VDOT)
1) Record definitions, process and deadlines for submitting problem statements, (Synthesis of practice, 20-7 projects, NCHRP projects by SOC sections for distribution to new members.
2) Redistribute to membership the previously completed NCHRP 10-58 strategic study plan, which included a priority list of statements. www.trb.org search on 10-58 second topic. Work with AASHTO staff to provide electronic link and send reminder prior to next annual meeting.
3) Submit the problem statement from the NCHRP 10-58- statement #7, “Alternative contracting methods and delivery systems to facilitate faster construction/reconstruction.”
4) Submit the problem statement from the NCHRP 10-58- statement #2, “Analysis of nighttime construction activities and impacts on safety, quality, and productivity.”
5) Submit the problem statement concerning “Bid Alternates Using Life-Cycle Determinations.”
6) Submit the problem statement identified a synthesis proposal: “The use of electronic documents and data, such as survey data, by State DOTs for bidding and other purposes.”
7) Submit the problem statement “To examine the effectiveness of TCCC with recommendations to modify business plan.”
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.

Future Meetings

- July 30 – August 3, 2006, San Juan, Puerto Rico
- 2007, San Antonio, Texas
- 2008, Gulf Shores, Mississippi
**HIGHWAYS SUBCOMMITTEE ON DESIGN**

**Officers**
- Chair: Allen Biehler (Pennsylvania)
- Vice Chair: Robert Walters (Arkansas)
- Secretary: Dwight Horne (FHWA)
- Liaison: Jim McDonnell (AASHTO)

**Review of Subcommittee charge statement**
- **Existing**
  - No change to existing charge statement

**Proposed Schedule**
- **New or Updated Publications**

**Introduction**

The majority of the Subcommittee on Design’s technical work is performed by its twelve Technical Committees. Their individual work plans outlined below collectively represent the Subcommittee work plan.

The Subcommittee on Design will hold its 2006 annual meeting in Orlando, Florida, June 13-16, providing a forum for the exchange of practices and experience in the field of transportation facility design. The meeting will also include discussion of various resolutions, proposed research projects, and other Subcommittee business.

**Technical Committee Work Plans**

**Technical Committee on Cost Estimating**

*Underway/Planned for 2006*
- Publish “practical” guidance on preparing final estimates, including recommended procedures and guidance on reviewing bids prior to concurrence in award.
- Use the output from NCHRP Project 8-49, “Procedures for Cost Estimation and Management for Highway Projects during Planning, Programming, and Preconstruction” to begin work on developing a “strategic” guide to cost estimating.
- Assist FHWA in developing “minimum standards” for cost estimating, as mandated by SAFETEA-LU Section 1904, and seek input from other committees as necessary.
- Work with the FHWA in developing a peer review program to utilize State DOT expertise in the review of project cost estimates and in the FHWA process reviews of State DOT cost estimating processes.
- Work with the Transportation Estimators Association (TEA), as well as meet in conjunction with their annual meeting, to help ensure that its work has benefits to all State DOTs.
- Submit two additional research proposals for funding under NCHRP 20-7 in Spring 2006: one related to cost escalation and one related to inflation and cost forecasting.

**5-Year Goals**
- Develop guidance for cost estimating to cover the full range from cradle (conceptual estimate) to grave (final estimate).

**Joint Technical Committee on Design-Build**

*Underway/Planned for 2006*
- Update the Current Practices Report based on input from Committee members and AASHTO SOC/SCOD members.
- Follow-up on the results of the FHWA Report to Congress on Design-Build (anticipated release in early 2006)

Continue to monitor and provide review comments for the additional research work provided under Task Number 25 to NCHRP Project 25-25(12), “Design-Build Environmental Compliance Process and Level of Detail Required.”

Pending the availability of funding, consider a national alternative contracting/design-build workshop.

Provide consolidated comments on the FHWA’s Notice of Proposed Rulemaking to implement the provisions of SAFETEA-LU Section 1503.

5-Year Goals

- Complete development of an RFQ/RFP Guide for Design-Build (based on the NCHRP project) as well as other guidance on design-build contracting for State DOTs, including possible best practices guide.
- Continue to review policy and guidelines developed by other organizations for consistency with AASHTO design-build goals and objectives.

Technical Committee on Environmental Design

Underway/Planned for 2006

- Possible development of web-based guidance on new methods for handling and retaining stormwater runoff in the right-of-way (with the TC on Hydraulics).
- Coordinate with AASHTO and task forces on context sensitive design.
- Coordinate with TRB task force on visualization.

5-Year Goals

- Place the 1993 Guide on Evaluation and Abatement of Traffic Noise on AASHTO web site. We have determined this guidance is still current.
- Remove the Policy on Land Use and Source Control Aspects of Traffic Noise Attenuation from AASHTO Publications; it is out of date and no longer requested.

Technical Committee on Geometric Design

Underway/Planned for 2006

- Work with the TC on Roadside Safety to address inconsistencies in the Green Book, Bike Guide and Roadside Design Guide regarding clear zone.
- Monitor NCHRP Projects 15-25 (Alternatives to Design Speed), 15-30 (Median Intersection Design), and 15-31 (Accel/Decel Lanes) for possible inclusion in geometric design publications.

5-Year Goals

- Update Green Book to incorporate appropriate findings from research currently in progress.
- Update Bicycle Guide in coordination with the TC on Nonmotorized Transportation.

Technical Committee on Highway Lighting

Underway/Planned for 2006

- Just finished extensive revision of the Roadway Lighting Design Guide which was published in 2005.

5-Year Goals

- The TC is currently inactive although we will continue to assemble any comments from practitioners on the recently completed lighting guide.

Technical Committee on Hydrology and Hydraulics

Underway/Planned for 2006

- Coordinate with NCHRP panel on identifying needs and advancing current technology relative to bridge scour.

4/27/06
• Continue work on refining the AASHTO Model Drainage Manual into an engineering document on policies and standards with recommendations on acceptable ranges of practice.
• Evaluate the outcomes from numerous research projects for inclusion in future editions of the Highway Drainage Guidelines and Model Drainage Manual.
• Propose various research statements on bridge scour and flow control structures.

5-Year Goals
• Perform periodic maintenance on the Hydraulics Drainage Guidelines and reformat the Model Drainage Manual to create a more user friendly, three-tier reference document.

Technical Committee on Nonmotorized Transportation

Underway/Planned for 2006
• Develop a plan for designation of national bicycle routes. Coordinate with the TC on Geometric Design and the Subcommittee on Traffic Engineering and forward to SCOH.
• Monitor NCHRP Project 17-37, Pedestrian Predictive Crash Methodology, for possible inclusion in future bicycle publications.
• Participate in the Pro Bike/Pro Walk Conference in September, 2006.
• Coordinate with the TC on Geometric Design on the update of the Bicycle Guide.

5-year Goals
• Revise the 1999 Guide for Development of Bicycle Facilities.
• Develop an effective relationship with the TRB committees and work cooperatively to identify the most pressing research needs.

Joint Technical Committee on Pavements

Underway/Planned for 2006
• Continue development of the new Mechanistic-Empirical Pavement Design Guide (MEPDG).
• Continue to work with the FHWA Design Guide Implementation Team and the Lead States Team to promote the MEPDG.

5-Year Goals
• Complete implementation of the MEPDG and respond to comments from the AASHTO balloting process.

Technical Committee on Preconstruction Engineering Management

Underway/Planned for 2006
• Continue work on updating the Guide for Contracting, Selecting, and Managing Consultants in Preconstruction Engineering.
• Coordinate with the Joint TC on Design-Build to identify and resolve the unique relationships when consultants are used in Design-Build projects.
• Analyze the results of the two surveys conducted in preparation for updating the Preconstruction Engineering Guide.

5-Year Goals
• Identify how to deal effectively with the issue of errors and omissions; consider a document that includes best practices.

Technical Committee on Public Transportation Facilities Design

Underway/Planned for 2006
• This Technical Committee is currently inactive.

5-Year Goals
• Assemble any comments on the two Guides recently updated by the Committee, Guide for High-Occupancy Vehicle Facilities and Guide for Park-and-Ride Facilities.
Technical Committee for Roadside Safety

Underway/Planned for 2006
- Complete the publishing and distribution of Chapter 6 Median Barriers Addendum to the Roadside Design Guide.
- Initiate discussions with TC on Geometric Design to resolve conflicts related to identification of clear zones in AASHTO publications.
- Coordinate with NCHRP Project 22-9(3) to revise the RSAP software program.

5-Year Goals
- Complete revision of the RSAP software program.
- Update the *Roadside Design Guide*.

Technical Committee on Value Engineering

Underway/Planned for 2006
- Continue planning for the 2007 AASHTO Value Engineering Conference.
- Update two sections of the 2001 AASHTO Guidelines for Value Engineering.
- Maintain an active web site providing information about transportation value engineering and develop a photo library for innovative ideas.
- Evaluate the results of NCHRP Project 20-5, Topic 35-04, Synthesis Study on Value Engineering Applications in Transportation, for possible inclusion in future value engineering documents.

5-Year Goals
- Update the 2001 AASHTO Guidelines for Value Engineering.
- Develop best practices guidelines for Value Engineering on Design-Build projects.

Future Meetings
June 2006, Orlando, Florida
June 2007, Vermont
HIGHWAYS SUBCOMMITTEE ON HIGHWAY TRANSPORT

Officers
Chair: Gordon Proctor, OH
Vice-Chair: Jeff Honefanger, OH
Secretary: Jim March, FHWA
AASHTO Liaison: Leo Penne

Task Force Chairs:
Alan Frew, Idaho, Operations
Ric Athey, Arizona, Size and Weight
Denny Silvio, Louisiana, Oversize/Overweight Permitting

Review of Subcommittee charge statement

- **Existing**
  No change to existing charge statement

Proposed Schedule

- **New or Updated Publications**
  Report on hurricane response, Summer 2006
  Primer on oversize/overweight truck routing, Fall 2006
  Highway Freight Movement Bottom Line Report, Fall 2006

Activities for 2006-2007

- Encourage more representation on SCOHT from the freight transportation and planning divisions of transportation departments.
- Continue promoting partnerships with industry.
- Examine national standards on size and weight for uniformity and respond to proposals for change.
- Coordinate with the National Transportation Safety Board (NTSB) on recommendations made on improving safety on Oversize/Overweight Vehicle Movements and escort vehicle certification.
- Promote regional permits among and between the various AASHTO Regions.
- Evaluate current and proposed federal ITS initiatives (CVISN, PRISM, etc.) and make recommendations that contribute to improvements, uniformity and nationwide implementation.
- Review and comment on security issues relating to trucking, including the use of ITS technology to monitor/process information on drivers, vehicles and loads.
- Work to integrate trucking elements into state 511 service.
- Continue implementation support for commercial vehicle provisions of SAFETEA-LU
- Work with NTSB on and improved communication concerning OW/OW movements and highway-rail grade crossings through SCOHT/SCORT working group.
- Incorporate highway and bridge engineering issues into workplan.
- Develop interactive communication and support system through Subcommittee website.

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.
• Identify potential research projects surrounding the subcommittee’s charge that would have a high degree of probability for implementable results.
• Promulgate results of International Scan on trucking regulation.
• 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 15-16, 2006  
  Location: Couer d’Alene, Idaho
HIGHPAYS SUBCOMMITTEE ON MAINTENANCE

Officers
- Chair: Carlos Braceras, UDOT
- Vice Chair: Russell Yurek, MD SHA
- Secretary: Jim Sorenson, FHWA
- Liaison: Ken Kobetsky, AASHTO

Review of Subcommittee charge statement

- Existing
  No change to existing charge statement

Proposed Schedule

- New or Updated Publications
  - AASHTO Maintenance Manual for Roads and Bridges expected to be in circulation late Spring or early Summer this year
  - The Maintenance Manager (a quarterly newsletter for Subcommittee use)
  - Subcommittee on Maintenance Roster (updated annually)
  - Subcommittee on Maintenance information pamphlet (guide for newcomers)

- Other Activities For The Coming Year
  - The 11th AASHTO/TRB Maintenance Management Conference is scheduled July 16-20, 2006 in Charleston, South Carolina.
  - The 11th Eastern Winter Road Maintenance Symposium & Equipment Expo is scheduled for September 6 – 7, 2006 in Atlantic City, New Jersey.
  - Develop sustaining support for the Transportation Systems Preservation Technical Services Program. Contacts: Steve Varnedoe – NCDOT, John Vance – MSDOT
  - Pursue development of the Maintenance Academy. Contacts: Jim Feda – SCDOT, Chris Newman – FHWA
  - Pursue development of Bridge Maintenance community list serve as part of the Transportation Systems Preservation Technical Services Program. Contacts: Peter Weykamp – NYSDOT
  - Promote regional meetings for State Bridge Maintenance Engineers. Contacts: Peter Weykamp – NYSDOT, Ed Welch, NHDOT
  - Development of the 2006 AASHTO Equipment Reference Book in electronic format to be posted on the Subcommittee on Maintenance website.

GOALS

Continue facilitation of Quality Improvement in highway maintenance activities by supporting increased involvement of the Maintenance Manager in Asset Management concept. Improve core business functions by encouraging cross functional assignments to committee tasks and activities. Increase awareness and reduce risk to the maintenance workers through improved Work Zone Traffic Safety methods, practices and innovations. Sustain high level of maintenance interest and involvement in the areas of Snow & Ice, System Preservation, and Workforce Development. Promote maintenance a cornerstone to environmental stewardship. Encourage the use of
performance-based contracting for long, as well as short term maintenance. Propagate the managing of assets through Asset Management theory, above the traditional over-managing of maintenance activities. Promote the use of SCOM’s Web page as a clearinghouse for task force and focus groups. Encourage technical development in highway safety and maintenance operations. Work Force Planning for Knowledge Management, advancing the awareness and value of maintenance professionals leaving the public sector by fostering internal networks of experts in a knowledge-based environment. Promote the Transportation System Preservation Technical Service Program.
HIGHWAYS SUBCOMMITTEE ON MATERIALS

Officers:
- Chair: Grant Levi, North Dakota
- Vice-Chair: Lon Ingram, Kansas
- Secretary: Steve Chase, FHWA
- AASHTO Liaison: Ken Kobetsky

Review of Subcommittee Charge Statement:
Review existing subcommittee charge statement and determine if any updates or changes are needed.
No change to existing charge statement.

Schedule of New/Updated Publications and Other Activities for 2005:
List of activities for the current year and anticipated milestones or dates of completion (Name in parentheses indicates SOM member or AASHTO staff representative with lead responsibility):

- Prepare a draft standard practice for establishing requirements for and performing equipment calibrations, standardizations, and checks – April 2005 (Spellerberg/Lutz)
- AMRL progress in reviewing all standards for terms relating to calibration and certification of equipment (Spellerberg)
- Conduct a technical fair at SOM annual meeting with several displays to introduce new materials technology – August 2005 (Tenison/Fissel)
- Preparation of guidelines for the possible expansion of industrial sponsorship of portions of the annual SOM meeting and providing the names of companies with new technologies for next August technical fair - aiming for 10 to 12 displays (task force overseeing the fair)
- Prepare a proposed letter from SOM to FHWA asking for a more thorough integration of recycled materials information in the National Highway Institute’s 6-week highway Materials Engineering training course.
- Conduct survey of current State highway agency usage of recycled materials – September 2005 (Jones)
- Report at SOM annual meeting on the result of national survey of state use of recycled materials in the highway environment and establishing what still needs to be done to make consideration of recycled material standards on every project (Jones/Melton)
- Create a joint task force of FHWA, AASHTO, the U.S. Environmental Protection Agency (EPA), the U.S. Department of Energy (DOE), and the Association of State and Territorial Solid Waste Management Officials (ASTSWMO), to provide overall leadership for a coordinated national recycling program – September 2005 (Jones)
- Present first two offerings of training course on highway applications of recycled materials to northeastern and southeastern State materials and environmental engineers – September 2004 (completed) and May 2005 (Jones)
- Preparing a proposed resolution requesting continued FHWA and /or state funding for the Recycled Materials Resource Center (SOM Recycled materials task force)
- Exploring the use of risk assessment tools in the evaluation of recycled materials (Jones)
- Communication between Recycled Task Force and EPA (Jones).
- Establishing a pooled fund project to support Recycled Materials Resource Center (Jones)
- Progress of the AASHTO’s Technology Implementation Group (TIG) in soliciting new technologies for implementation in 2006 (SOM)
- Joint AMRL/CRL research programs to continue the development of precision statements for a number of asphalt mixture test methods (Spellerberg/Lutz)
- AMRL effort to improve terminology and practice in AASHTO standards (Spellerberg/Lutz)
- Report at SOM annual meeting on results of feasibility study on potential application of European accelerated pavement marking system testers in American transportation programs – August 2005 (Baker)
- SOM approval of a resolution for continuation of the support of the traffic marking accelerated wear simulator and assessment of the possibilities of developing a facility for traffic marking accelerated wear simulator in US
in a partnership among AASHTO and states, the FHWA, and ATSSA (the American Traffic Safety Services Association)

- Develop plan for adding nondestructive testing of structural steel and welds to AASHTO Materials Reference Laboratory (AMRL) procedures and AASHTO Accreditation Program (AAP) – August 2005 (Spellerberg/Lutz)
- Preparation of a plan for adding accreditation of laboratories testing of coatings on structural steel (Spellerberg)
- State/industry/FHWA support of Transportation Curriculum Coordinating Council (TCCC) in developing regional and national training programs that States can use as a basis for their own training and development programs (Malerk)
- Complete 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 – August 2005 (Fletcher/McGough)
- Develop Strategic Plan II for AASHTO Materials Reference Laboratory (AMRL) for years 2006-09 – December 2005 (Spellerberg).
- Provide recommendations for 2007 and future scanning tours to Special Committee on International Activities Coordination – December 2005 (Baker/Felag)
- Development of pooled fund study to support SOM standards development (Kobetsky/Hoffman)
- Report on AMRL council/SOM ballot for the addition of physical testing of metals and reinforcing steel to the AASHTO Accreditation Program (Spellerberg)
- Preparation of a plan for including alternate standard methods, i.e., state test methods that have AASHTO or ASTM counterparts but differ from those national standards, in the scope of the AASHTO Accreditation Program (Spellerberg)
- Discussion on research need for the 2007 NCHRP program to develop a strategic road map for pavement preservation and development of a pooled fund study to support SOM standards development on pavement preservation (Kobetsky/Hoffman)
- Selection of the subjects and participants for international scan tours by FHWA, AASHTO and the AASHTO subcommittees (Kobetsky)
- Results of the poll of the technical section chairs’ level of interest in having their own web page in the SOM website (Fisher)
- Editorial revision of the Annexes and Appendixes in various standards in AASHTO Materials following the practices laid out in the ASTM Blue Book available on-line at www.astm.org sections no later than the 27th Edition (technical chairs)
- Drafting a memorandum of Understanding between AASHTO and ASTM on the relationship between the two organizations. Also preparation of a letter to ASTM regarding the organization’s unauthorized use of AASHTO standards as the basis for its own new standards (Kobetsky)
- Compiling a list of ASTM standards that were based on AASHTO standard (Fisher)
- Status of AASHTO Technical Service Program to support volunteer effort by technical sections (Kobetsky)
- To draft guidelines for the SOM regarding the subsidies of the offsite events during the SOM meetings (Ingram)
- Facilitating teleconferencing or conference telephone connections to allow negative voters not in attendance to participate in discussions on SOM ballot items (Executive Council)
- Preparation of a draft guide for states to use in establishing a materials management information system (Geary)
- Developing a training presentation for the SOM on how to write new specifications and test methods (Geary)
- Technical Sections to look at ways to get more input on technical section ballot items from non-voters (Geary)
- Status of two international scan tour panels on warm-mix asphalt and long life concrete pavements (Baker)
- Status of National Partnership on Highway Quality (NPHQ) in various states (Geary)
- Looking at establishing a pooled fund study aimed at hiring consultants for activities to support standards development and other SOM programs (Hoffman/Kobetsky)
Goals for Next 5 Years:
Outline of what the subcommittee expects to accomplish in the next 5 years.

- Establish Memorandum of Understanding between AASHTO and ASTM on shared activities in standards development and publication by 2006 (Kobetsky).
- Complete tasks in AMRL Strategic Plan II by 2009. (Spellerberg/Lutz).
- 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 2008 (Jones).
- Have at least 20 State Qualified Product Lists linked to the APEL database by 2008 (Fletcher/McGough).
- Increase use of Internet and AASHTO Website in standards development, SOM organization and operations, and sharing of technical information through 2008 (Fissel).
- Bring all standards into conformance with standard practice for establishing requirements for and performing equipment calibrations, standardizations, and checks by 2010 (Spellerberg/Lutz)
- Maintain comprehensive and up-to-date information on existing State materials management systems on SOM Website through 2008 (Geary).

Upcoming Meetings:
List of all upcoming meetings for the Subcommittee and its task forces, including dates, locations, duration, and frequency of occurrence.

- Subcommittee on Materials meeting
  o Dates: August 6-11, 2006
  o Location: Overland Park, Kansas
  o Duration: 4½ days
    - 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.
The Subcommittee submitted for SCOH consideration a recommendation for a replacement Chair and Vice Chair as well as an update on Executive Committee membership.

**Review of Subcommittee charge statement**

- **Existing**

  No change to existing charge statement

**Schedule of New/Updated Publications and Other Activities for 2006/2007:**

- The Subcommittee, in cooperation with FHWA, will monitor, assist and provide information to member states on pending FHWA-approved Right of Way Experimental Pilot Projects and Utilities Research/Technologies Transfer Projects underway as a result of the European Scan (see above). The Subcommittee in cooperation with FHWA and AASHTO will develop a marketing tool to widely distribute the successes and/or lessons learned from the experimental and demonstration projects. A marketing tool a tri-fold brochure to advance the information gained from these studies was developed by FHWA in conjunction with O.R. Colan and Associates and it has received wide circulation. It is requested that this portion of this item be reported to SCOH as accomplished by the scheduled completion date but that the item should be retained in the Work Plan as continuing through 2007.

  Right of Way Experimental Projects
  - Land Consolidation.
  - Appraisal Review Modification.
  - Appraisal Waivers exceeding $10,000.
  - Incentive payments to property owners and displaced persons.
  - Same Person Appraising and Negotiating (Conflict of Interest) On Properties exceeding $10,000.
  - Appraisal/Replacement Housing Payment (RHP) Calculation (One-Step Process).

  Thirteen experimental projects are underway or have been completed. By state these are: California, Conflict of Interest; Florida, Appraisal Review Modification, Incentive Offer, and Appraisal Waiver; Michigan, Appraisal Review Modification; Mississippi, Land Consolidation; North Carolina, Appraisal Waiver; South Florida, Water Management Acquisition/Relocation Incentive; South Carolina, Appraisal Waiver; Virginia, Preliminary Engineering Cost Reimbursement and Relocation Incentive; Washington State, Appraisal Review Modification; Wisconsin, Appraisal Review Modification. The status of each project is reported on the FHWA website.

  Utilities Experimental Projects
  - Investigate the feasibility of paying preliminary engineering costs for all utility relocations.
  - Investigate the feasibility of recognizing pipelines as a mode of transportation.

  Completion date: Continuing through 2006.

It is requested that the completion date for Utilities Experimental Projects is extended through 2007.

- The Subcommittee has organizationally restructured internally to incorporate standing technical councils in all of the technical responsibility areas within the charge statement of the subcommittee. The objective is to encourage and facilitate more participation by a larger number of member states in Subcommittee work and allow better planning and reporting on issues at the full subcommittee annual meeting. Standing
technical councils were established in areas such as Appraisal, Appraisal Review, Consultant Management, Relocation, Acquisition, Property Management, Condemnation Coordination and Management, Program Management, Utility Relocation, Utility Accommodation, Subsurface Utility Engineering and Utility Pole Safety. The Subcommittee will test this organization for 2 years. Completion date: April 2006.

Technical councils met in person in conjunction with the Right of Way and Utilities Subcommittee annual meeting and reported to the Subcommittee. They conducted telephone, video or e-mail conferences or correspondence at least one additional time during the year to accomplish committee goals and they provided topics of interest to the Executive Committee of the Subcommittee for inclusion as topics during the annual meeting. The subcommittee submitted for SCOH consideration a proposed amendments to Operating Procedures to add a Technical Council for “Outdoor Advertising Control” and to permit consultants to serve on Technical Councils. It is requested the completion date be extended to April 2007.

- The Subcommittee has assisted in coordinating and initiating a pooled-fund research project involving member states on electronic appraisal transmission and storage. The process and costs for the development of this infrastructure and methods of implementation will be described in a guidance manual. Completion date: April 2006.

A pooled-fund research project for electronic appraisal is underway. Texas is the lead state and 15 member states participated. Phase one of the study has produced a Draft Technical Memorandum (9-1523-7) on the Electronic Appraisal System. Additional phases to promote implementation are contemplated. The Subcommittee’s task force on Research, also led by Texas, is consolidating, promoting and sharing research by individual states. Research initiatives undertaken by individual states are reported on the AASHTO Right of Way and Utilities Subcommittee website. It is requested that this item be reported to the SCOH as accomplished by the completion date but that the production and publication period be extended to June 2006.

The subcommittee has been active as members of the advisory council on Integrating Geospatial Technology into the Right of Way and Utility process. An NCHRP funded study is underway with the first phase scheduled for completion in June of 2006. Virginia Tech is the consultant hired for this project.

- The Subcommittee will continue to develop and publish web site surveys conducted on-line by the Subcommittee member states and to identify and document best business practices at: http://www.transportation.org/community/right_of_way/aashtorr.htm.

This item is an ongoing activity. It is requested that it be reported to the SCOH that many on-line surveys are completed and they are reported on the Subcommittee’s website and that the Right of Way and Utilities Subcommittee website was updated during the past year.

The Subcommittee will work in coordination with FHWA on training initiatives underway as a result of a real estate training analysis conducted by the Subcommittee and FHWA.

An updated web-based course on the Uniform Act is offered by FHWA to all state DOTs, their partners and consultants at no cost. Updated courses on appraisal and appraisal review for federal-aid highway programs are being developed for completion in 2006. Updated NHI advanced course on relocation was developed in 2005 and an updated course on business relocation is scheduled for completion in 2006.

- The Subcommittee will continue to work jointly with FHWA in developing a Right of Way Training curriculum at the university or college level with particular emphasis on long distanced or web-based learning.

Completion date: Continuing through 2006.

It is requested that this item be extended through 2007.

- The Subcommittee will continue to communicate, educate and advocate the best approaches to ROW practices and utility relocation/accommodation, including:
  - Promote enhanced training opportunities for both state and industry personnel.
This is an ongoing item that will be promoted in coordination with FHWA by a variety of educational tools including NHI classes, coordination with colleges and universities, continued coordination with the IRWA, Subcommittee research, coordination with the NCHRP, and publication of materials in conjunction with AASHTO.

- Completion date: Continuing through 2007.

It is requested that it be reported to the SCOH that the Subcommittee is actively participating in a major initiative with IRWA to recommend significant modernization of materials and instructional methods for ROW courses. The subcommittee will also consider a proposal by IRWA to co-sponsor a new training opportunity to be held for one week in February 2007. And, it is requested that that it be reported to the SCOH that the Subcommittee’s Domestic Scan proposal was chosen by NCHRP as one of two Pilots for 2006. Several Subcommittee Members are serving as Co-chair and Scan Team Members to develop and implement the Scan Pilot. It is requested that the completion date be amended to continue through 2008.

One of the ways that the subcommittee recognizes and promotes best practices is in conjunction with FHWA’s presentation on a bi-annual basis of excellence in a variety of right of way and utility services. These awards enhance the ability of professionals in the utility and right of way fields to meet challenges associated with acquiring real property and clearing utilities for federal-aid projects. Awards for right of way are in the categories of: innovation, leadership, stewardship, streamlining/integration and technical specialty. Awards for utilities are in the categories of: relocation, coordination, safety and innovation.

Goals for Next 5 Years:

- Update the Right of Way and Utilities Best Practices Guide addressed in the SCOH Strategic Plan, Strategy 4-4, as new technologies and state of the art methodology’s emerge or state or federal laws and regulations change which affect Right of Way and Utilities. Initiate update by 2007.

It is requested that this item be changed to 2008.

The Subcommittee on Right of Way and Utilities will explore opportunities to conduct joint forums with AASHTO counterparts in the Subcommittee on Design, the Standing Committee on Planning, and the Standing Committee on Environment to improve project development and delivery. * *

- In coordination with other SCOH Subcommittees and other AASHTO Standing Committees, study current state practices of project delivery and the role of Right of Way and Utilities in those processes. Examine whether states have initiated methods for initiating or improving multi-disciplinary coordination and communication in project delivery which integrates and incorporates Right of Way and Utility input and information throughout the Planning, Project Development and Environment, Design and Plans Development phases of a project. Determine whether improved early communication and coordination with the Right of Way and Utility offices has resulted in more effective, timely and cost efficient Plans Delivery, Environmental Streamlining, Corridor Preservation, Context Sensitive Design, Corridor Infrastructure Management, and Optimization of Placement of Utilities. Completion date January 2007. * *

- In coordination with the AASHTO Subcommittee on Design and the Standing Committee on Planning conduct a joint meeting with representatives from each committee’s Executive Committee and FHWA representatives to explore methods to improve project delivery. Completion date January 2007 * *

* * To meet these objectives, but in lieu of these activities, the ROW and Utilities Subcommittee proposed and was funded by AASHTO for a Domestic Scan Pilot scheduled for Summer 2006. This Scan titled, Integrating Project Delivery to Meet Accelerated Project Delivery Schedules, is an interdisciplinary scan that will involve members from the planning, environment, design, right of way and utilities professions. Among the anticipated benefits of this scan are: gathering information to promote changes to federal laws regarding environmental clearance related to corridor preservation; development of a model for accelerated project delivery; development of a model for integrated project delivery; development of best practices for expeditious coordination of utilities relocation; and development of a model to help state and local transportation agencies secure outside resources for project delivery.
The Subcommittee began consideration of a proposal by Michigan DOT to partner with FHWA to prepare and publish an update to the ROW Project Development Guide (PDG), which is used by States and their partners to ensure that State and Federal regulations are followed. One option under consideration is to propose an AASHTO Technical Project utilizing State contributions.

If the Subcommittee adopts this proposal and if the SCOH approves, it would be added to the Activity Plan and the completion date would likely be January 2009.

The Subcommittee began consideration of a possible proposal for a long term AASHTOWARE product for an expert system for determining relocation payments. The concept is to develop a product called Turbo Relocation, similar to Turbo Tax. The possible proposal would likely include several interim products for specific types of “calculators”.

If the subcommittee develops a proposal and if the SCOH approves, it would be added to the Activity Plan and the likely interim completion date would be January 2009.

Upcoming Meetings:

- The Highway Subcommittee on Right of Way and Utilities Executive Board meets annually to conduct mid-year subcommittee business, identify emerging issues and problems, coordinate with FHWA leadership on Right of Way and Utilities on anticipated program changes and plan for the full Subcommittee meeting in the spring.
  - Dates: Early January 2007
  - Location: Orlando, Florida
  - Duration: 2½ days
  - Frequency: Subcommittee Executive Board meeting occurs once per year.

- The Subcommittee on Right of Way and Utilities annual meeting
  - Dates: April 30 – May 4, 2006
  - Location: Baltimore, MD
  - Duration: 4½ days (Includes Sunday registration and social event. Technical sessions are for 3 1/2 days).
  - Frequency: Full subcommittee meeting occurs once per year. This conference has become the best available technical and policy level seminar on rights of way and utilities issues for transportation. Over 400 attendees expected.
HIGHPWAYS SUBCOMMITTEE ON SYSTEMS OPERATION AND MANAGEMENT

Officers

- Chair: John Conrad, WA
- Vice Chair: Connie Sorrell, VA
- Secretary: Jeff Paniati, FHWA
- AASHTO Liaison: Valerie Briggs

Review of Subcommittee charge statement

- **Existing**
  
  No change to existing charge statement

Proposed Schedule

- **New or Updated Publications in FY 2005**
  - Guide to Emergency Traffic Operations – NCHRP 20-59(11), in progress
  - Guide to Contracting Intelligent Transportation System Projects – NCHRP 3-77, in progress

- **Other Activities For The Coming Year**
  - 2006 SSOM Annual Meeting to be held jointly with the Special Committee on Transportation Security, September 17-20, 2006, Orlando, FL.
  - Joint meetings with the Subcommittee on Maintenance and Subcommittee on Traffic Engineering are scheduled for 2007 and 2008 respectively.
  - Execute Business Plan for Mainstreaming Operations in State DOTs (developed through NCHRP 20-7).
  - Initiate joint task force with Standing Committee on Planning to advance planning for operations and provide feedback to related FHWA projects.
  - Continue to support the National 511 Coalition and Vehicle Infrastructure Integration Initiative.
  - Support efforts to develop a National Unified Goal for Traffic Incident Management in conjunction with the National Traffic Incident Management Coalition (NTICM). Continue to support other NTIMC activities, including a Community of Practice web resource and a National Conference on Traffic Incident Management and Planned Special Events, Nov. 28 – Dec. 2 in Irvine, California.
  - Support the National Transportation Operations Coalition projects on Performance Measures, Business Planning, Funding, and Signal Assessment, and Professional Capacity Building. Continue to support a program to enhance the management and operation of traffic signal systems nationwide.

Balloting of Products and Standards

The Subcommittee anticipates balloting the “Guide to Emergency Transportation Operations” developed through NCHRP 20-59 during the period, in addition to numerous Intelligent Transportation Systems Standards.

Recently Completed Research

Mainstreaming Operations within State DOTs – NCHRP 20-7(188)

Ongoing Research

- Traffic Incident Management + Program for Worker Safety – NCHRP 20-7(221)
- Statewide Incident Reporting Systems – NCHRP 20-7(215)
- Guide to Multi-state Transportation Operations Programs – NCHRP 3-84
- Update of the AASHTO Maintenance Manual to Include Operations – NCHRP 20-7(203)
Proposed Research

Operations Academy (Approved for NCHRP FY 2007 funding)

GOALS

The SSOM finalized its multi-year Strategic Plan and Task Force Work Plans. Goals currently identified are:

1. Mainstreaming of operations into state DOT policy-making and organizational structures
2. Expansion of performance monitoring and measurement to enhance real-time, 24-7 systems operations
3. Development and deployment of technology, standards, and best practices
4. Improved coordination and partnerships with other stakeholders, interests, and associations, including other AASHTO committees and subcommittees

Initiatives to support these goals will be carried out by the Subcommittee as a whole and the Subcommittee’s five Task Forces: ITS Standards Development and Deployment, Performance Measurement, Technology Initiatives for Operations, Traffic Incident Management, and Work Zone Management. Each SSOM Task force finalized a work plan to support the Subcommittee and additional Task Force goals. Identified initiatives are described below:

Overall Subcommittee
- Develop lead state program to support mainstreaming of systems operations into state DOTs
- Establish Subcommittee website as clearinghouse for Subcommittee activities and resources
- Participate in related national initiatives including the National Transportation Operations Coalition and Federal Highway Administration initiatives
- Hold joint meetings with other AASHTO committees and subcommittees, including Standing Committees on Planning (2005) and Highway Traffic Safety; Highway Subcommittees on Maintenance (2007), Traffic Engineering (2008), and Highway Transport
- Support implementation of SAFETEA-LU
- Coordinate activities with the new Special Committee on Transportation Security

ITS Standards Development and Deployment
- Develop multi-program of high priority standards for key transportation operations applications and scenarios
- Streamline the development and maintenance processes and improve partnership roles for reduction in standards development time
- Develop a recommended deployment program for state and local organizations and recommended deployment initiatives to stimulate state and local action over the next two years

Performance Measures
- Develop common standardized set of performance measures for key operations activities
- Develop and standardize key measures and reporting mechanisms for benchmarking key national trends in operations
- Develop mechanisms for communicating benefits of operations to managers, decision makers and the public
- Support research to develop tools to simulate and evaluate potential operations activities

Technology Initiatives for Operations
- Support and advance business plans for:
  - Vehicle Infrastructure Integration,
  - National 511 Coalition,
  - Incident Reporting Systems and Electronic Data Exchange
- Support peer exchange and advancement of best practices in ITS, including ITS procurement practices, and public-private partnerships
• Support knowledge exchange with private sector technology leaders

Traffic Incident Management (TIM)
• Support the National Traffic Incident Management Coalition (NTIMC) in cooperation with USDOT partner associations
• Execute a business plan for the NTIMC that advances best practices in responder safety and quick clearance
• Develop and support progress toward a National Unified Goal (NUG) for TIM
• Hold a second National Conference on TIM in Nov-Dec 2006 to finalize the NUG
• Support implementation of International Scanning Tour on TIM
• Review and support role out of Emergency Transportation Operation Guide
• Work with the Performance Measures Task Force to establish means of benchmarking incident management practices

Work Zones
• Coordinate with FHWA to facilitate the development and implementation of Work Zone Mobility and Safety Plans in conjunction with new rules and/or guidelines
• Coordinate and champion reviews and research of methodologies for improvements in work zone mobility and safety
• Work with the Performance Measures Task Force to establish means of benchmarking work zone management practices
HIGHWAYS SUBCOMMITTEE ON TRAFFIC ENGINEERING

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

Review of Subcommittee charge statement
No change to existing charge statement

Proposed Schedule
Plans for 2005-2006 include continuing work with the NC, including the mid-year meeting in January, and evaluating proposed changes to the MUTCD as they may be published in the Federal Register.

The subcommittee will continue to address requests for changes in the designation of control cities along Interstate highways.

The five Technical Committees have the following work plans:

Work Zone
1. Continue working with FHWA on the “Work Zone Best Practices Guide.” In particular review to identify practices no longer in use and suggest practices for inclusion.
2. Review current practices on data collection: Identify what is being collected by the States and how the data is being used.
3. Provide support for the AASHTO Working Group responsible for review of implementation guidance associated with the new Work Zone Safety and Mobility rule.

Signing and Marking
1. Move to (1) solicit review of, (2) design layout for, (3) publish, and (4) distribute “Signs and Markings” pamphlet depicting “good” and “bad” signing practices. This document is intended for practitioners, such as city managers, law enforcement officials, public works directors, city administrators, and planning commissions. The pamphlet will include photos emphasizing (1) retroreflective qualities of white and yellow markings, (2) proper use of double yellow and double white markings, and (3) good and bad signing practices.
2. Work with SCOHTS to identify signing and marking techniques that have direct impact/application to the Strategic Highway Safety Plan.
3. Perform a query of AASHTO-SCOTE membership to identify the most effective practices for signing and markings to reduce crash experience.

Traffic Design, Regulation and Management
1. Access Management – Query the States as to their questions and needs; review the TRB Report; develop a “user friendly” guide that reflects highway operations.
2. Automated Enforcement – Continue with on-going research until fall 2005; make further recommendations on the basis of research findings.
3. Traffic Control Devices for Special Events – All members will consider the possibility of future activities.
4. VII – Monitor issue and keep members advised.
5. Roundabout Design Issues – Develop a paper on design issues and their effects operationally.
7. Speed Operational Issues – Team awaiting more information on the National effort and the “FHWA US Limits” program.


10. Traffic Control Devices on Private Property – Keep apprised of activities of the NCUTCD Task Force formed to review this subject.

Safety and Security
1. Convene meeting with leadership of the Highway Safety Subcommittee to determine relative roles; consider a future joint meeting with this subcommittee.
2. Survey the members to obtain best practice incident management practices and present findings at next Annual Meeting.
3. Assist FHWA with the Comprehensive Highway Safety Plan activity and provide comments on the guidance chapters.

Traffic Signals and Roadway Lighting
1. Summarize responses to Technical Team list serve inquiries.
2. Review the NTOC Traffic Signal Report Card to identify topics for future work activities.
3. Survey members as to traffic signal resource requirements: what kind and how much.

In addition to the above task force assignments, the Subcommittee will take the lead on keeping the new AASHTO Pedestrian Facilities Handbook current. This will be done in cooperation with other appropriate AASHTO subcommittees.

Upcoming Meetings

June 2006, Kansas City (Overland Park), MO
June 2007, Lake Tahoe, NV
TASK FORCE ON CONTEXT SENSITIVE SOLUTIONS (CSS) WORK PLAN

Officers:
Chair: Neil J. Pedersen, MD

Background

The AASHTO Task Force on CSS was formed shortly after an AASHTO/FHWA National Workshop in 1998. Since its inception the Task Force has endeavored to continue the leadership effort in advancing CSS principles and practices nationally.

The Task Force has focused on issues related to AASHTO’s role and policies in the area of CSS, on training to promote awareness of CSS and integrate its practice into daily operations, and on the demonstration of the positive benefits of CSS on transportation agencies.

Products of the Task Force’s work were the adoption of the “Guide for Achieving Flexibility in Highway Design” as policy, the publication of “Performance Measures for Context Sensitive Solutions, the formation of a partnership with FHWA, and the completion of a national survey on the state of the practice of CSS in State DOTs.

AASHTO/FHWA Partnership

The Task Force, assisted by the AASHTO Center for Environmental Excellence (CEE), entered into extensive discussions with FHWA on CSS training programs for State DOTs. The outcome was an agreement for AASHTO and FHWA to jointly support:

- A national State-led conference to focus on CSS achievements and challenges
- A two-stage peer-to-peer exchange

National Workshop Planned for September, 2006

Under the auspices of the Task Force, AASHTO and FHWA will be sponsoring the upcoming “Context Sensitive Solutions: An AASHTO/FHWA Peer Exchange,” scheduled for September 6-8, 2006, at the Radisson Lord Baltimore Hotel in Baltimore, Maryland. The AASHTO Center for Environmental Excellence (CEE) is actively staffing this effort. Conference calls and meetings have been held monthly since the AASHTO Annual Meeting in 2005.

The purpose of the conference is to engage primarily AASHTO-member state transportation departments and the Federal Highway Administration in a series of facilitated peer exchange sessions that explore the successes, challenges, benefits, perceived risks, and lessons learned from CSS implementation since the 1998 “Thinking Beyond the Pavement” conference, which helped establish the first set of guiding principles for CSS in transportation. Check the Center’s website for details:
http://environment.transportation.org/environmental_issues/context_sens_sol/

2-Stage Peer-to-Peer Exchange

The Peer-to-Peer Exchange is designed to maximize interactive discussions by using small-group learning that is personal and specific. Two formats will be explored:

- Stage 1: “Field Trip” - Teams new to CSS visit States actively mainstreaming CSS, and
- Stage 2: “Expert Brainstorm and Assessment” - Experts in CSS implementation visit select DOTs to share new concepts

The Task Force will work with FHWA to implement this part of the program following the National Workshop scheduled for September 6-8, 2006. The workshop will help to identify which States are strong in various stages of CSS implementation.
National CSS Survey

AASHTO has completed the compilation and analysis of a national survey on the state of the practice of CSS. Results have served as the basis for the agenda for upcoming peer exchange. A summary of the results is attached. The summary will be sent to members electronically and will also be presented at the AASHTO Spring Meeting.

Domestic Scanning Tour

In August, 2005, the Task Force submitted a request to AASHTO to include CSS as a scan tour topic to be considered as part of NCHRP 20-68, US Domestic Scan Program. The CSS proposal was not selected for implementation but the Task Force intends to submit an application in 2006 to be part of the NCHRP 20-68 (1) US Domestic Scan Program Pilot.

Task Force Future

In order to continue promoting national awareness of CSS, and recognizing that it applies to the planning, environmental, design, construction and maintenance phases of project delivery, the Task Force will also make recommendations for a permanent location for CSS within AASHTO’s committee structure at the 2006 Annual Meeting.
TECHNOLOGY IMPLEMENTATION GROUP

Officers:

Chair       Vacant
Vice Chair  Paul Wells
Secretary   Byron Lord
AASHTO Liaison Adam Fisher

Review of Subcommittee charge statement

• **Existing**
  
  No change to existing charge statement

New Implementation Activities:

• Three New Technologies Selected
  o Maintenance Decision Support System
  o Pavement Rehab Strategies – CA4PRS and
  o Precast Concrete Paving Slabs
• New Technology Grouping – “Additionally Selected Technologies”
  o Notch Wedge / Safety Edge / Shoulder Wedge Making
  o Balsi Beam - A Work Zone Protection Device
  o Design Build Traffic Signal Projects

Other Activities:

• Working towards the creation of guidebooks to formalize the process of technology implementation in TIG and to create a series of performance measures that will be able to quantify TIG’s successes.
• Development and maintenance of TIG communications plan.

Goals for Next Five Years:

• Expand TIG’s technology forecasting ability by strengthening ties with State, Federal, and AASHTO research entities.
• Expand TIG’s technology implementation footprint in the transportation community to include technology outside the engineering field (e.g. business applications, environmental).
• Be the leading voice of technology transfer activities in the transportation community.

Future Meetings:

• October 25, 2006. Portland, Oregon
• January 2007. TRB
OFFICERS

Chair: Vacant
Vice Chair: Tom Baker (Washington)
AASHTO Liaison: Mike McGough (AASHTO), NTPEP Manager & Chief Technology Officer
Amy Hearon (AASHTO), NTPEP Project Engineer

NTPEP ADMINISTRATIVE TASK FORCE:
David Kuniega (Pennsylvania)  Henry Lacinak (Louisiana)
Jim McGraw (Minnesota)   Robert Sarcinella (Texas)

Review of Subcommittee charge statement

• Existing

  No change to existing charge statement

Proposed Schedule

Organizational and Administrative Framework

NTPEP is a pooled fund engineering technical service program (TSP) which operates from AASHTO headquarters in Washington, DC. It is staffed by two 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 with Industry Associations who are expert in their respective niche industry. For each class of product category under NTPEP, a Project Panel of state DOT and Industry membership convenes at least yearly to discuss conduct of evaluation.

The NTPEP Oversight 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 Oversight Committee are appointed by the AASHTO Executive Director. For administrative matters and industry appeals a NTPEP Administrative Task Force (ATF), representing each of the AASHTO regions, is selected by the NTPEP Chairman.

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

A senior ranking steering committee was set up in 2000 to address issues facing implementation of NTPEP program results within the highway safety devices area. A Joint Review Evaluation Committee (JREC) composed of five AASHTO members and five industry members, represented by the American Traffic Safety Services Association (ATSSA), meets twice a year to promote NTPEP.

Schedule of NEW Activities for FY07 Program Year:

NTPEP coordinates major demonstration projects for field and laboratory evaluation of proprietary engineered products. The program’s success is largely due to public-private partnerships. Currently, NTPEP is actively evaluating the following product categories:

- Pavement Markings
- Sign Sheeting Materials
- Rolled Up Signing Materials
- Raised Pavement Markers & Adhesives
- Plowable Raised Pavement Markers
o Flexible Delineators and Workzone Drums
o Portable Changeable Messages Signs & Flashing Arrow Panels
o Geotextiles
o Reinforced Geosynthetics
o Rolled Erosion Control Products
o HDPE Plastic Pipe
o Concrete Admixtures
o Concrete Curing Compounds
o Rapid Set Patching Materials
o Joint Sealants for PCC
o Crack Filler for HMA Pavement
o Structural Steel Coatings
o Polymer Concrete Bridge Deck Overlays
o Reinforcing Steel

During the 2006-2007 fiscal program year, NTPEP has intends to conduct major field demonstration projects and nationally-coordinated laboratory testing on many products. Note that timeline for implementation of new testing regimes requires study of available program resources.

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<thead>
<tr>
<th>#</th>
<th>Due</th>
<th>Lead States</th>
<th>Description of Activity</th>
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<tbody>
<tr>
<td>1</td>
<td>March 2006</td>
<td>Minnesota, Missouri</td>
<td>Laboratory evaluations of concrete admixtures. Publish a final report.</td>
</tr>
<tr>
<td>2</td>
<td>March 2006</td>
<td>Minnesota, Kansas</td>
<td>Laboratory evaluations of concrete curing compounds. Publish a final report.</td>
</tr>
<tr>
<td>3</td>
<td>April 2006</td>
<td>Virginia, Louisiana, Minnesota, Arizona and Missouri</td>
<td>2006-2009 cycle of testing for sign sheeting materials. Field evaluation racks placed at four locations nationally. Publish data on DataMine.</td>
</tr>
<tr>
<td>4</td>
<td>April 2006</td>
<td>Louisiana, Minnesota, Arizona and Missouri</td>
<td>Coordinate, plan, and install 2006 “Roll Up Signing Materials” test deck at three field locations. Evaluate products and publish reports.</td>
</tr>
<tr>
<td>5</td>
<td>June &amp; July 2006</td>
<td>Utah, Pennsylvania, New York, Louisiana, Minnesota</td>
<td>Coordinate, plan, and install a pavement marking deck in Mississippi. Publish data on DataMine.</td>
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<tr>
<td>8</td>
<td>Fall 2006</td>
<td>Georgia, Florida</td>
<td>Coordinate, plan, and install raised pavement marker “sun country” field test deck. Conduct laboratory testing on products. Publish reports.</td>
</tr>
<tr>
<td>9</td>
<td>Fall 2006</td>
<td>Ohio, Georgia, Florida</td>
<td>Coordinate, plan, and install snowplowable raised pavement marker test deck – field and laboratory testing. Publish reports.</td>
</tr>
<tr>
<td>10</td>
<td>Fall 2006</td>
<td>Ohio, Kansas, New York</td>
<td>Coordinate, plan, and install rapid set concrete patch test deck – field and laboratory testing. Publish reports.</td>
</tr>
<tr>
<td>12</td>
<td>February 2007</td>
<td>North Carolina</td>
<td>Conduct a field evaluation of PCMS and flashing arrow panels. Publish a final report.</td>
</tr>
</tbody>
</table>
# NTPEP TEST DECKS (MAJOR PROJECTS TO INITIATE, 2005-2006 CYCLE)

<table>
<thead>
<tr>
<th>#</th>
<th>Due</th>
<th>Lead States</th>
<th>Description of Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>QUARTERLY</td>
<td>Wisconsin, TRI/Environmental</td>
<td>Launch the “Erosion Control Products” for the ongoing laboratory testing serving the nation. Publish test reports via the Internet. Coordinate with NCHRP 20-7 Task 165 project for large- to bench-scale correlation study.</td>
</tr>
<tr>
<td>16</td>
<td>ONGOING</td>
<td>Kansas, TRI/Environmental, Ohio University, Utah State University</td>
<td>Coordinate, sample and test “HDPE Plastic Pipe”. Publish test reports online. Coordinate merger with Plastics Pipe Institute (PPI). Solicit interest from Subcommittee on Materials (SOM) membership to support implementation.</td>
</tr>
<tr>
<td>17</td>
<td>ONGOING</td>
<td>Washington, New York, TRI/Environmental</td>
<td>Coordinate, sample, and test reinforcement geosynthetics materials. Publish reports online.</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). Presentations are made at various regional and national conferences. Liaison reports are provided to other AASHTO committees.

**Goals for Next 3 Years:**

- Increasing use of NTPEP results through training opportunities and peer exchanges.
- Introducing collaborative online communication for committee correspondence.
- Establishing a greater presence in the AASHTO community.
- Structure organization to handle program growth.

**Upcoming Meetings:**

- NTPEP 2006 annual meeting of the NTPEP Oversight Committee
  - Dates: May 7-11, 2006
  - Location: Wilmington, NC
- NTPEP 2007 annual meeting of the NTPEP Oversight Committee
  - Dates: May 6-10, 2007
  - Location: Boise, ID
HIGHERWAYS SPECIAL COMMITTEE ON INTERNATIONAL ACTIVITY COORDINATION

Officers:

Chair        Vacant
Vice Chair    John F. Conrad, WA
Secretary     Henry Nevares, FHWA
AASHTO Liaison Ken Kobetsky

Review of Subcommittee charge statement

- **Existing**
  
  No change to existing charge statement

The fiscal year 2006 program contains the following scans:

- Long-Life Concrete Pavements May 11th – 28th 2006
- Planning for Congestion Management June 2nd – 18th 2006
- Audit Stewardship May 5th – 21st 2006

The planned fiscal year 2007 program contains the following scans:

- Warm-Mix Asphalt Technology
- Freight Mobility and Intermodal Connectivity: Asia
- Electronic Speed Enforcement
- Bridge Inspection Quality Control and Quality Assurance
- Linking Transportation and Land Use

International Scan Program, FY 2008 – Call for Proposals:

The fiscal year 2008 International Scan Program is a cooperative program jointly sponsored by FHWA, NCHR P, and AASHTO. The electronic notification for the call for proposal was distributed to various committees and subcommittees in the beginning of April 2006. It is anticipated that four Scans will be selected for this fiscal year.

Goals for Next Five Years:

- In cooperation with the Federal Highway Administration and NCHR P Panel 20-36, continue coordinating the proposal and selection process for the Joint Scanning Program achieving the maximum number of scans supported by the current budget.
- Develop plan for improving the current scan and proposal process by September, 2006. This includes improving the implementation of scans findings.
- Facilitate AASHTO’s continued presence and participation in World Road Association (PIARC) committees and activities.
- Provide leadership in identifying and optimizing other international opportunities of benefit to AASHTO and others in the U.S. transportation community. Review successful practices in other states and countries.
- Improve efforts to disseminate information on international activities, scans, and practices to AASHTO member departments. Prepare a semi-annual update on status of scans and their results.
OFFICERS:

Chair       Mike Behrens, TX (Region IV)
Secretary   Marty Vitale, AASHTO
Region I:   Ken Sweeney, ME
Region II:  Don Vaughn, AL
Region III: Kevin Keith, MO

REVIEW OF SUBCOMMITTEE CHARGE STATEMENT

- Existing
  No change to existing charge statement

SCHEDULE OF NEW/UPDATED PUBLICATIONS AND OTHER ACTIVITIES FOR 2005-2006:

- Convert all application and documentation to an electronic format

EXPECTED GOALS FOR NEXT 5 YEARS:

- Publish and promote a new edition of the U.S. Numbered Highways for availability on the internet as the AASHTO historical record.
- Develop an electronic application process and make available on the internet via the committee’s webpage
- Update the U.S. Numbered Highways continuously as applications are processed.
- Conduct committee business by teleconference on a periodic basis rather than meeting only twice a year.
- Continue to update and expand the Special Committee on U.S. Route Numbering Website

UPCOMING MEETINGS:

- Special Committee USRN meets during the AASHTO SCOH Meeting
  - Spring 2006 in Jekyll Island, Georgia
  - Fall 2006 in Oregon
SPECIAL COMMITTEE ON WIRELESS TECHNOLOGY

Officers
- Chair: Richard Sheldrew (Nevada)
- Vice Chair: Vacant
- Secretary/AASHTO
  - AASHTO Liaison Larry A. Miller
  - FHWA Liaison: James Arnold (Turner Fairbank Research Facility)

Review of Subcommittee charge statement
No change to existing charge statement

Proposed Schedule
- The committee conducts a workshop yearly. This meeting offers training and networking for the member department telecommunications managers. This year the workshop will be hosted by the Connecticut Department of Transportation. The location will be Windsor Connecticut May 21-25.
- The committee will meet jointly with the Subcommittee on Systems Operations and Management in June 2007. The SCOWT workshop will be separate from the actual SSOM meeting but there will be a day of coordinated activities. This will enable both committees to become familiar with the goals and areas of common interest. Included are intelligent transportation and traffic engineering, and maintenance and construction activities.
- The committee has oversight responsibility for the Frequency; Coordination Program. Each member department designates a state frequency coordinator who assists in this process.

Goals
- SCOWT’s main focus is tracking the activities of the Federal Communications Commission and how the changes in FCC rules affect the member departments. This includes spectrum allocations, technical standards, and licensing policies and procedures.
- Since wireless telecommunications are a critical link in disaster recovery and public protection there is an important role for the member department which must interact with other agencies in these activities as well as homeland security.
- The committee collects and disseminates information to the member departments allowing them to take advantage of the latest developments in technology.
- The committee’s goal is to become more involved in the activities which are important to the other committees who report to the SCOH.
- To operate the Frequency Coordination Program in the most efficient manner. This will guarantee sufficient revenue for AASHTO to continue to be the voice of the member departments for Wireless Telecommunications activities.

Upcoming Meetings
2006 Annual Workshop May 21-25 Hartford/Windsor Marriott, Hartford CT. Member department telecommunications managers will attend training classes, equipment exhibits and network with other telecommunications managers. The SCOWT members will meet to discuss the items addressed at the workshop and the future activities of the committee.

2007 June Meet with SSOM in Wisconsin