

**Reports and Materials for the
ANF20 Bicycle Transportation Committee Annual Meeting (2007)**

(revised 1/19/07)

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1. Federal Highway Administration Pedestrian and Bicycle Research and Program Activities

Summary of Federal Highway Administration (FHWA) Pedestrian and Bicycle Research and Program Activities Prepared for the 2007 Annual TRB Meeting

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FHWA Research Program

FHWA – TURNER FAIRBANK R&D

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Ongoing Major Research Activities

1. *Safety Index for Assessing Pedestrian and Bicycle Safety at Intersections* will be completed. The indices are tools for engineers and planners to determine how safe an intersection is for pedestrians and bicyclists and what improvements could be made to the intersection to increase safety for pedestrian and bicyclists.
 - o HSRC North Carolina University - Charlie Zeeger and Bill Hunter
Will be completed by April 2007
2. *Evaluation of Pedestrian and Bicycle Safety Measures*: Evaluation of new and innovative signing and other low-tech countermeasures and recommendations for their installation and use.
 - o TTI - Shawn Turner
Will be completed by June 2009

Ongoing In-House Projects

1. *Segway® Human Transporter Research*: Two studies have been developed to investigate the operational characteristics of Segway riders. The results of these studies are intended to assist engineers and policy makers in understanding Segway performance.

A study was conducted during the summer of 2004 examining the stopping behavior of experienced Segway riders. Participants rode on a closed sidewalk course at Turner-Fairbank Highway Research Center (TFHRC) and made planned and unexpected stops while traveling in three different speed keys (up to 6mph, 8mph, and 12.5mph respectively).

- o Spring 2006

A second study is currently under way investigating both novice and experienced Segway riders performing simple navigation tasks on a sidewalk at TFHRC. Participants also view a series of

sidewalk videos shown from the rider's perspective and rate them on the quality of lateral and longitudinal separation, passing ability, and general ridability exhibited.

- Spring 2007

2. *In-Roadway Warning Lighting Research*: A before and after study is being conducted at two crosswalks in the metropolitan Washington, DC region. In the after phase, in-roadway warning lights have been installed at the crosswalks using either push button actuation or automatic detection of pedestrians attempting to cross the road. Before and after data collection is complete at both sites; long term after (one-year) data collection is underway.

- Winter 2006

3. *Pedestrian Exposure to Risk*: This project is in an initial stage and will examine ways to better quantify pedestrian and bicyclist exposure to risk. The first step will be to conduct a literature review to find out how researchers try to measure pedestrian exposure to risk, the advantages and limitations of these approaches, and how these findings are used. A long-term goal is to develop a pilot study to more adequately investigate risk.

- Winter 2007

Recently Completed Research Reports

1. Characteristics of Emerging Road and Trail Users and Their Safety
2. Evaluation of Safety, Design, and Operation of Shared Used Paths
3. Enhancement of Pedestrian Bicycle Crash Analysis Tool (PBCAT)
4. Updated FHWA Pedestrian and Bicycle University Course
5. Pedestrian Facilities Users Guide: Providing Safety and Mobility
6. Safety Effects of Marked Vs. Unmarked Crosswalks at Uncontrolled Locations: Executive Summary and Recommended Guidelines
7. An Analysis of Factors Contributing to "Walking Along Roadway" Crashes: Research Study and Guidelines for Sidewalks and Walkways.
8. A Review of Pedestrian Safety Research in the United States and Abroad.

Copies of the completed research reports are available upon request to: ann.do@dot.gov.

FHWA Safety Program Activities

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Safety Products Under Development

Pedestrian Safety Guidance for Communities. This project involves developing two guides aimed at addressing pedestrian safety problems. The first guide pertains to improving pedestrian safety at transit locations. The guide will provide information about how to accommodate pedestrian safety at transit locations. Issues such as how to locate bus stops will be addressed. The second guide will address pedestrian safety in neighborhoods. This guidance would be a toolkit to assist neighborhoods in working with their local and State transportation agencies and in identifying countermeasures that can be enacted in the community to reduce speeds and improve safety for pedestrians. The kit would also include basic information on the MUTCD and guidance on different traffic control devices relevant to

homeowners associations, as well as information about how to do outreach and get law enforcement involved.

Improving Pedestrian Safety with Road Safety Audits: Current Road Safety Audit (RSA) materials lack technical guidance on how to address pedestrian safety. FHWA's Safety Office has a project underway to address this gap. The task order team is reviewing existing pedestrian-related safety materials to develop new guidelines and checklists that will be included in the Road Safety Audit software package. The new materials will be completed in early 2007 and will be incorporated into the RSA software sometime thereafter. For more information contact gabriel.rousseau@dot.gov.

Cooperative Agreements to demonstrate and evaluate the effectiveness of a combined pedestrian safety engineering and ITS based areawide countermeasure program: FHWA awarded three Cooperative Agreements: San Francisco, Las Vegas, and Miami several years ago. Phase 1 of the Cooperative Agreement (completed) consisted of the development of a plan addressing the pedestrian safety problem identification and countermeasure selection within each locality. Phase 2 (ongoing) consists of implementing the plan. The intent of the Cooperative Agreement is (1) to demonstrate the effectiveness of the pedestrian safety program plan in reducing pedestrian fatalities, injuries, and conflicts, and (2) demonstrate the plan's portability to other jurisdictions within the United States. For more information, contact gabriel.rousseau@dot.gov.

Future Safety Products

Develop Bicyclist Road Safety Audit Module and Field Test Pedestrian Audit Module: This project would provide funding to develop a bicycle module for Road Safety Audits. Road Safety Audits are essentially a checklist that State and local officials can use when developing roadway projects to ensure the safety of the facilities that are being developed or retrofitted. Pedestrian and bicycle accommodation are not generally considered during the RSA process, and this project would seek to change that. The pedestrian component mentioned above will also be field tested and evaluated in several pedestrian Focus States and/or Cities. A comprehensive report will be prepared after the field tests and revisions may be made to the checklist and guidelines.

Pedestrian Report to Congress: This Congressionally mandated report on pedestrian safety will build on current level of knowledge of pedestrian safety countermeasures by identifying the most effective advanced technology and ITS, such as automated pedestrian detection and warning systems, road design, and vehicle structural design that could potentially mitigate the crash forces on pedestrians in the event of a crash. To be completed by the end of 2007.

Pedestrian/Bicycle University Course Mini-Grants: Now that the Pedestrian and Bicycle University course has been revised (see description below, under "completed projects"), this project will help market and promote it to ensure that interested instructors will be aware of course. Potentially, we will award mini-grants to different colleges and universities that will use the funding to develop a full course on Pedestrian and Bicycle Safety and Accommodation. We will also track the grants and do an evaluation of course success after a few years.

Available Safety Products

Bicycle Safety Countermeasure Selection Expert System: This is an expert system to provide guidance as to which safety treatment is most appropriate to be implemented under numerous combinations of traffic, roadway, and other bicycle related conditions. The project was complete in

Summer 2006, and is available in either a hardcopy or CD Rom version at http://safety.fhwa.dot.gov/ped_bike/ped_bike_order.htm. For more information, contact tamara.redmon@dot.gov.

How to Develop a Pedestrian Safety Action Plan: This guide was developed to help State and local officials know where to begin to address pedestrian safety issues. It is also intended to assist agencies in further enhancing their existing pedestrian safety programs and activities, including identifying safety problems, analyzing information, and selecting optimal solutions. The guide also contains information on how to involve stakeholders, potential sources of funding for implementing projects, and how to evaluate projects. The guide is primarily a reference for improving pedestrian safety through street redesign and the use of engineering countermeasures, as well as other safety-related treatments and programs that involve the whole community. This guide can be used by engineers, planners, traffic safety and enforcement professionals, public health and injury prevention professionals, and decisionmakers who have the responsibility of improving pedestrian safety at the State or local level. The guide is available for download at: www.walkinginfo.org/pp/howtoguide2006.htm. For more information, contact Tamara Redmon at tamara.redmon@dot.gov.

Determining the Extent of the Highway Safety Problem as it relates to Hispanic Populations in the United States: This project, co-funded by NHTSA and FHWA, involved conducting research to determine the extent of the highway safety problem as it relates to Hispanics and how big of a problem is it in the areas we wish to cover: Hispanics as pedestrians and Hispanics as bicyclists. Where do the problems lie in terms of groups and demographics and immigration trends? Why are these problems occurring? To download a copy of the document, see: http://safety.fhwa.dot.gov/ped_bike/docs/sa06ba030/index.htm.

Marketing Plan and Outreach Materials for Hispanic Audiences: This project is part 2 for the project listed above. This phase of the project, which used the information gathered in part 1, included developing a marketing plan to tell interested parties how to best “sell” safety to the Hispanic populations in the U.S., and included developing actual products based on the outcome of the marketing plan. See http://safety.fhwa.dot.gov/ped_bike/toc.htm. Based on the research conducted as part of this effort, 5 brochures, 5 posters, 2 radio PSAs, and a website (http://safety.fhwa.dot.gov/ped_bike/ped_bike_hsp.htm) created that address issues such as alcohol, pedestrian signals, crosswalks, sidewalks, and bicycle safety. The brochures and posters were done in English and Spanish. See http://safety.fhwa.dot.gov/ped_bike/ped_bike_hsp.htm (look under “Materials for Hispanic Pedestrians and Bicyclists”). For information, contact tamara.redmon@dot.gov.

Pedestrian Safety Countermeasure Selection Expert System: This project consists of an expert system to provide guidance as to which safety treatments are most appropriate to be implemented under numerous combinations of traffic, roadway, and other pedestrian related conditions. To access the Pedsafe website, see www.walkinginfo.org/pedsafe. To order copies of Pedsafe, see http://safety.fhwa.dot.gov/ped_bike/ped_bike_order.htm. For more information, contact tamara.redmon@dot.gov.

Pedestrian Safety in Rural Areas: The fact that 28 percent of pedestrian fatalities occur in rural areas challenges the conventional wisdom that pedestrian fatalities are an urban problem. This report identifies characteristics of rural pedestrian fatalities. The most prominent characteristics were clear

weather, hours of darkness, weekends, non-intersection locations, and level, straight roads. (FHWA-SA-04-008) www.walkinginfo.org/rd/safety.htm#fhwareports.

Pedestrian Safety Outreach Campaign: The FHWA Safety Office completed the *Pedestrian Safety Campaign Planner*, which is a comprehensive kit of materials for local communities to use in implementing their own Pedestrian Safety Campaign, in Spring 2003. The PSA toolkit includes materials designed for use in television, radio, cinema, and print advertising. Some of the materials included are in Spanish. States and local communities are responsible for implementing the campaign through local television and radio stations and print media. A *Campaign Planning Guide* that explains in detail how to implement the campaign successfully at the local level is also included. The *Campaign Planning Guide* contains sample articles and news releases, posters, brochures, and graphics for promotional materials. If you would like to view the materials, see <http://safety.fhwa.dot.gov/pedcampaign/index.htm>. For more information, contact tamara.redmon@dot.gov.

Safer Journey Interactive Bicycle Safety Awareness CD-ROM: FHWA-SA-03-013 is an interactive CD (English/Spanish) that takes the user through various bicycle safety scenarios encountered every day across America. It was developed to improve the level of bicycle knowledge for all road users, including safety practitioners. **The CD is currently unavailable, but we hope to have copies again in the summer.** When available again, the CD-ROM can be ordered from the web at http://safety.fhwa.dot.gov/ped_bike/ped_bike_order.htm.

Safer Journey Interactive Pedestrian Safety Awareness CD-ROM, FHWA-SA-03-014, is an award winning interactive CD (English/Spanish) that takes the user through various pedestrian safety scenarios encountered every day across America. It was developed to improve the level of pedestrian knowledge for all road users and safety practitioners. At least 7 States are using this CD-ROM as one of their tools to improve pedestrian safety in their elementary schools. If interested in this process, please contact tamara.redmon@dot.gov. See the CD-ROM at <http://safety.fhwa.dot.gov/saferjourney/>, or order it at http://safety.fhwa.dot.gov/ped_bike/ped_bike_order.htm. **The CD is currently unavailable, but we hope to have copies again in the summer.**

Pedestrian and Bicyclist University Course: FHWA developed this course, which can be easily incorporated into any college or university's Civil Engineering or Urban Planning curricula. It teaches students about safe design and accommodation. The course was recently revised. Professors can register to receive the course materials free at http://safety.fhwa.dot.gov/ped_bike/univcourse/pbcrsbroch.htm.

Pedestrian Forum Newsletter is a quarterly newsletter with the objective of providing information on pedestrian issues such as research and development, new and revised regulations, programs, innovative projects, successful test and evaluation, etc. The newsletter is emailed quarterly to FHWA safety specialists, State bicycle and pedestrian coordinators, and other interested parties. See <http://safety.fhwa.dot.gov/fourthlevel/pedforum.htm>.

Bicycle Safety Education Resource Center:

The Bicycle Safety Education Resource Center is a website that provides bicycle safety education information for bicyclists of all ages, motorists, and those who teach children to ride. The site contains a searchable database of training materials; a guide to help you identify the training needs of your

audience, and a *Good Practices Guide* to assist with the development of your own program. Modifications have been made to the Resource Center to provide a manageable process for growing the resource database as well as keeping it current. This was accomplished by developing an Internet based system that takes on-line program submission, allows program contacts to manage their own program information in the database, and enables the resource center database to be controlled from a secure administration site. The Bicycle Safety Education Resource Center website has also been selected as one of the best sites for students and teachers by the National Science Teachers Association. See http://safety.fhwa.dot.gov/fourthlevel/tools_b.htm. Hard copies of the *Good Practices Guide* are available by contacting Tamara Redmon at tamara.redmon@dot.gov.

FHWA Planning, Environment, and Realty Activities

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Surface Transportation Environment and Planning Cooperative Research Program (STEP)

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) introduced a new funding program for environmental and planning research within FHWA. STEP has resulted in greater outreach for determining both funding levels and the specific research studies that are to be undertaken using STEP funds. For FYs 2006 and 2007, available funds will be used to develop pedestrian and bicycle data collection methodologies in general and more specifically for the Nonmotorized Transportation Pilot Program. Outreach will continue this year. Further information on STEP can be found at www.fhwa.dot.gov/hep/step/index.htm.

Nonmotorized Transportation Pilot Program (NTPP)

The NTPP provided \$25 million to construct a system of bicycle and pedestrian facilities and programs to each of four communities:

- Marin County, CA
- Columbia, MO
- Sheboygan County, WI
- Minneapolis-St Paul, MN

A contract was awarded to the University of Minnesota to develop a plan for and to carry out community-wide “before” data collection in the four communities and in a control community. The data collection is underway. A cooperative agreement was awarded to the Rails-to-Trails Conservancy to assist with communications among the four pilot communities and with others interested in the NTPP. An interim report to the US Congress is being drafted and will be delivered to the Congress by September 30, 2007. As projects are implemented in the four communities, they will be evaluated using a consistent methodology developed by the Volpe Center for this purpose. A final report is due to the US Congress by September 30, 2010.

Recreational Trails Program (RTP)

- FHWA’s RTP continues to work with the USDA Forest Service, Bureau of Land Management, National Park Service, US Fish and Wildlife Service, other Federal agencies, and through American Trails and other nonprofit trail organizations to support the National Trails Training Partnership, a clearinghouse for training for all kinds of trails (see www.NTTP.net).
- FHWA posts trail publications, including several Forest Service trail publications, at www.fhwa.dot.gov/environment/rectrails/publications.htm.

- The Forest Service is editing an equestrian trail design guide for front-country areas (expected early 2007), and then will edit a guide for rural and wildlands areas (probably later 2007). There is also an OHV trail monitoring study.
- The International Mountain Bicycling Association (IMBA) is developing a mountain bike management guide with support from FHWA and several State resource agencies. See www.imba.com for mountain bike resources.
- The RTP also supports various trail conferences (see www.fhwa.dot.gov/environment/rectrails/rtevents.htm) and the American Hiking Society's National Trails Day (www.americanhiking.org/events/ntd/).

Updated Websites: FHWA's Byways, Bike-Ped, Trails, and Enhancements team updates its websites frequently:

Bicycle and Pedestrian Program: www.fhwa.dot.gov/environment/bikeped
 Publications: www.fhwa.dot.gov/environment/bikeped/publications.htm

Recreational Trails Program: www.fhwa.dot.gov/environment/rectrails
 Publications: www.fhwa.dot.gov/environment/rectrails/publications.htm

National Scenic Byways Program: www.bywaysonline.org
 America's Byways (website for travelers): www.byways.org

Transportation Enhancements: www.fhwa.dot.gov/environment/te (policy)
 National Transportation Enhancements Clearinghouse: www.enhancements.org (technical assistance and examples). NTEC posted its FY 2005 report of Transportation Enhancement projects funding at www.enhancements.org/misc/teatafy05.pdf.

Federal Aid Funding Update:
 See www.fhwa.dot.gov/environment/bikeped/bipedfund.htm for more details. Two-thirds of the Federal-aid funding continues to come through the Transportation Enhancement activities, and bicycle and pedestrian projects (including rail-trails) continue to account for more than half of all TE projects.

2. National Highway Traffic Safety Administration (NHTSA)

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA)
Report to the Transportation Research Board Bicycle Safety Committee – January 2007

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Bicycle Safety Program and Safe Routes to School:

Bicycle issues and Safe Routes to School (SRTS) activities in NHTSA are housed within the Research and Program Development (RPD) Office. RPD is responsible for the behavioral aspects of bicycle, pedestrian safety and SRTS, including program development, pertinent research, public information and education, training, enforcement, and outreach. Within RPD, the bicycle and pedestrian safety programs and SRTS are the responsibility of both the Office of Safety Programs and the Office of Behavioral Safety Research. Additionally, many bicycle and pedestrian safety activities are carried out jointly with the Federal Highway Administration (FHWA). NHTSA's SRTS program supports FHWA the lead agency for SRTS. NHTSA's National Center for Statistics and Analysis (NCSA) provides fact sheets and annual reports relating to fatalities and injuries due to bicycle and pedestrian related traffic crashes. Telephone inquiries regarding data should be addressed to Ms. Louann Hall at 1-800-934-8517. Also see: <http://www-nrd.nhtsa.dot.gov/departments/nrd-30/nca/>.

NEW BICYCLE SAFETY PROJECT:

- ***Hispanic Pedestrian and Bicycle Safety Outreach:*** This project is creating ESL curriculum modules on pedestrian and bicycle safety to reach recent Hispanic immigrants, and is exploring ways to reach Hispanic youth with pedestrian and bicycle safety messages through a peer-to-peer initiative. The resulting products will include: an ESL Instructors Guidebook for delivering a pedestrian safety and separate bicycle safety course to adults and a white paper delivering recommendations for reaching Hispanic youth and their family members. (Expected Completion: Spring 2008)

NEW BICYCLE SAFETY PRODUCTS:

- ***Traffic Safety Facts 2005: Bicyclists and Other Cyclists (Fact Sheet).*** This fact sheet on motor vehicle and traffic crashes published by NHTSA's NCSA, provides information on bicycle crashes, fatalities and injuries based on Fatality Analysis Reporting System (FARS) data. Available on the NHTSA website: <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSF2005/BicyclistsTSF05.pdf>
- ***Kids and Bicycle Safety (Brochure).*** This brochure combines and updates previously developed NHTSA bicycle safety brochures: "Kids and Bicycle Safety" and "Did You Know." It includes: safe riding tips; rules of the road for bicycling; and more. Available on the NHTSA website in English: <http://www.nhtsa.dot.gov/people/injury/pedbimot/bike/KidsandBikeSafetyWeb/index.htm> and

Spanish:

<http://www.nhtsa.dot.gov/people/injury/pedbimot/bike/KidsandBikeSafetySpan/index.htm>

- ***Easy Steps for Properly Fitting a Bicycle Helmet (Brochure)***. This brochure combines and updates previously developed NHTSA bicycle safety brochures: "Did You Know," "What's New about Bicycle Helmets," and "Your Bicycle Helmet - A Correct Fit." It includes: six steps to follow for fitting a helmet; associated graphics; and a short discussion on helmet laws. Available on the NHTSA website in English:
<http://www.nhtsa.dot.gov/people/injury/pedbimot/bike/EasyStepsWeb/index.htm> and Spanish:
<http://www.nhtsa.dot.gov/people/injury/pedbimot/bike/EasyStepsSpan/index.htm>
- ***Enjoy the Ride- Bicycle Safety Tips for Adults. (Video)*** This video provides an overview of the basic principles of bicycling safety for adults that are new or returning to cycling. The video discusses the how's and why's of four main principles: (1) choosing the right bicycle; (2) using safety equipment, including bicycle helmet, lights and reflectors on bicycles, and clothing for increased visibility; (3) checking your bicycle equipment before each ride and (4) the rules of the road. The video is available in both DVD, and VHS. Available for order on the NHTSA website:
www.nhtsa.dot.gov

BICYCLE SAFETY PRODUCTS COMING SOON:

- ***Enhancing Bicycle Safety: Law Enforcement's Role. (CD-ROM)***. This self-paced interactive training program will teach law enforcement: application of traffic laws that apply to bicyclists and motorist interactions with bicyclists, which infractions are the major cause of bicycle/motorist crashes, and why enforcement of the laws is important. Successful completion of the training may enable them to receive continuing education units. Expected completion: Winter 2007.
- ***Bicycle Safety Roll Call Video:*** This video is for law enforcement agencies. It emphasizes understanding the laws as they relate to cyclists, enforcing the laws among bicyclists and motorists as they relate to bicyclists, and reporting bicycle-vehicle crashes. The users are referred to a more in-depth resource, i.e. the *Enhancing Bicycle Safety: Law Enforcement's Role* CD-ROM training. Expected completion: Winter 2007.
- ***Proper Fitting of Bicycle Helmets (Web-based Video Clip)***. This video clip will demonstrate how to properly select and fit a bicycle helmet. Available on NHTSA's website in both English and Spanish. Expected completion: Winter 2007.
- ***How to Demonstrate Bicycle Helmet Effectiveness (Web-based Instructions)***. This publication will provide instructions on how to conduct demonstrations of bicycle helmet effectiveness. Available on NHTSA's website. Expected completion: Summer 2007.
- ***Bicycle Rodeo Guide (Web-based Guide)***. This guide will include instructional materials on how to conduct a bicycle safety rodeo including, guidance on how to conduct the event for rodeo sponsors and the common set of critical bicycle safety messages that should be taught to rodeo participants. Expected completion: Summer 2007.
- ***Bicycle Safety Activity Kit***. This kit is being adapted for on-line use from an existing NHTSA product "Be Smart. Bike Safe." It provides English/Spanish education and activities for children ages 4-7; and children ages 8-11. The information and activities engage children to increase their knowledge on safe bicycling. Expected completion: Winter 2007.
- ***Preventing Bicycle Crashes. (brochure)*** This brochure is designed for parents and caregivers of school age children (kindergarten through fifth grade). It provides insight on how children think

differently about safety based on their growth and development, and provides a pictorial description of common traffic related bicycle crashes and what bicyclists need to do to prevent a crash. Expected completion: Winter 2007.

- ***Seven Smart Steps to Bicycle Safety. (brochure)*** This brochure is designed for adults and older youth. It is being adapted for on-line use from an existing NHTSA product “10 Smart Routes to Bicycle Safety.” Expected completion: Winter 2007.
- ***Share the Road with Bicycles (toolkit)***. This product will be available on-line and will provide examples of share the road initiatives aimed at engaging both bicyclists and motorists to utilize the road safely with mutual consideration and respect. Expected completion: Summer 2007.

EXISTING BICYCLE SAFETY PRODUCTS:

For additional products please refer the NHTSA’s website at www.nhtsa.dot.gov under bicycle safety.

Safe Routes to School (SRTS):

FHWA, Office of Safety is the lead DOT agency for Safe Routes to School under SAFETEA-LU legislation, providing State funding for SR2S programs focusing on children grades K-8. NHTSA actively supports FHWA on education, enforcement, encouragement and evaluation issues.

SRTS NEW PROJECT:

- ***Law Enforcement Program for SRTS:*** This project includes developing and pilot testing SRTS resource materials for law enforcement officers to engage them in the SRTS movement. The contractor will work with a variety of law enforcement entities to determine what resource materials will be helpful, best ways to pilot test these materials and best ways to disseminate and ensure utilization of the final product. Expected completion: Winter 2009.

SRTS NEW PRODUCTS:

- ***SRTS On-Line Guide.*** This *Guide* is a comprehensive online reference manual designed to complement and support other SRTS publications. To support SRTS, this guide provides “one-stop shopping” including modules on Engineering, Enforcement, Encouragement, Education and Evaluation. Additionally the *Guide* includes: Case Studies, Adult School Crossing Guard Guidelines and The Walking School Bus. Still in progress is the module on Evaluation (Expected completion Winter 07). The *Guide* can be found on the National Center for SRTS website: <http://www.saferoutesinfo.org/guide/>

EXISTING SRTS PRODUCTS:

Products are available in both hard copy and on-line. Please refer to the NHTSA’s website at www.nhtsa.dot.gov under bicycle safety or the National Center for SRTS at www.saferoutesinfo.org.

Research Initiatives – Research Office:

- ***Compendium of NHTSA’s Pedestrian and Bicycle Research.*** This product synthesizes NHTSA-sponsored research conducted since the late 1960s. Abstracts of research products are included along with the theoretical framework. Available on CD-ROM via the NHTSA website: www.nhtsa.dot.gov
- ***Pedestrian and Bicyclist Safety Resource Guide.*** This Guide was prepared for the pedestrian and bicycle safety professional and others who are proactive in developing programs at the State or

community level. It provides a compilation of existing and proposed countermeasures that can be used by a variety of implementers to help solve a wide range of pedestrian and bicycle safety problems. In developing the Guide requests for countermeasures were made to hundreds of pedestrian and bicycle safety professionals. Each countermeasure is described in the section called “existing countermeasures.” The Guide also contains suggestions for the development of additional countermeasures that specific implementers might use to address specific pedestrian or bicycle safety problems. These are described in the section called “proposed countermeasures.” Available on CD-ROM via the NHTSA website.

- ***Evaluation of the Safety Benefits of Safe Routes to School (SRTS) Programs.*** The objectives of this study are: 1) To determine the feasibility of conducting a systematic and practically meaningful crash-based evaluation of SRTS programs; 2) If feasible, to determine the effect on crashes of the implementation of SRTS programs; 3) To determine the extent of bicycling and walking prior to, during and after these programs are implemented. Currently, Dunlap and Associates has collected the demographic data on existing SRTS programs and will soon begin the next phase of collecting crash data. Expected completion: Winter 2007.

3. AASHTO Technical Committee on Nonmotorized Transportation

Webpage: <http://design.transportation.org/?siteid=59&pageid=761>

update submitted by Dwight Kingsbury, Vice Chair

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NCHRP Project 15-37, Revising the AASHTO Guide for the Development of Bicycle Facilities (<http://www.trb.org/trbnet/projectdisplay.asp?projectid=417>), is now underway. One of four submitted proposals was selected as having the highest probability of success by the project panel. NCHRP ordinarily awards contract in April or May each year, and the project is scheduled to be completed in 24 months, putting the ending date in spring 2009. A draft outline for the next edition of the *Guide*, prepared in 2005 by a previous NCHRP project, will provide the initial basis. Consulting with appropriate AASHTO committees, practitioners and other stakeholders, the contractor will produce a complete draft revision and a report that documents the effort. The draft will be submitted to AASHTO (Highway Subcommittee on Design is the custodian) for balloting and any further revisions deemed necessary. Thus, a new edition might be ready in the fall of 2009.

A key challenge for the contractor will be to manage research gaps. Users of the 1999 edition expressed frustration with guidance that is perceived as noncommittal or insufficiently definitive, that in effect instructs the user to “Watch out if you do this” or “If you decide to do this, then do it this way”. Users have strongly expressed a need for more definitive or quantitative guidance on the suitability of bicycle lanes and sidepaths under various conditions, and appropriate design strategies (especially at junctions); planners want effective but practical techniques for predicting usage of contemplated facilities. Research conducted since 1999 has addressed or started to address a number of questions (especially on questions of path planning and design), but consensus is far from achieved on all of them. Where questions remain, the most practical strategy may be to synthesize present practice.

Meanwhile, the AASHTO TCONMT will continue to prepare, prioritize and submit research problem statements to NCHRP.

Chair of the TCONMT is Dick Albin, Asst. State Design Engineer with Washington State DOT (albind@wsdot.wa.gov).

4. Association of Pedestrian and Bicycle Professionals

For the committee report:

Association of Pedestrian & Bicycle Professionals (APBP)

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In September 2006, APBP hired its first Executive Director since the position ended in 2003.

APBP continues to offer its Designing Pedestrian Facilities for Accessibility workshop.

APBP Board of Directors and members serve as liaisons to national task forces and committees.

APBP is updating its Bicycle Friendly Community workshop, which was developed in 2003. APBP and the League of American Bicyclists (LAB) will work collaboratively to promote the Bicycle Friendly Community designation program throughout the U.S.

APBP is launching a Consultant's Directory, which will be marketed to municipalities along with recommendations about writing pedestrian and bicycle project RFPs.

Coming events: APBP's biennial Professional Development Seminar (PDS) Series on Sept. 11-14, 2007 is hosted by platinum BFC winner Davis, CA.

Plan to attend! APBP members receive registration discount. Join or renew today. APBP's PDS occurs in conjunction with the Walk Bike California 2007 conference. See for yourself how Davis evolved into the USA's premier bicycle friendly community. Then take home what you've learned to apply for or enhance your own community's BFC designation.

5. Perils For Pedestrians Television

John Z Wetmore, Producer

john@pedestrians.org

The television series is now available on over 100 public access cable channels, The Universityhouse Channel on DISH Network, and Google Video. Details are available at www.pedestrians.org.

I am always looking for topics for the program. Anyone who would like their research to reach the general public should talk to me about an interview on camera.

6. ITE Pedestrian and Bicycle Council

Date	Project Name	Scope	Report Type	Volunteer Manager	Status	Project Status	Estimated Completion Date
July 2006	Web Catalog of Pedestrian and Bicycle Innovations	Provide up-to-date information on various pedestrian and bicycle innovations through ITE web pages.	Other	Matthew Ridgway	In progress. ITE staff to set up Web functionality.	Active	2006
July 2006	Collision Reporting Practices	Gather information on collision reporting systems in the US and other countries. Identify the current state of collision reporting practices and provide jurisdictions with models to adopt as their own.	Informational Report	Matthew Ridgway	In progress. Initial findings to be presented to Ped/Bike, Traffic Engineering, and Safety Councils in August 2006. Research topic to be refined based on those meetings.	Active	2007
July 2006	Guidelines for the Installation of Marked Crosswalks at Uncontrolled Locations	Develop a Recommended Practice on this topic. Subsequent Informational Reports or Recommended Practices may be warranted to address other innovative pedestrian crossing signal applications that are not in the MUTCD.	Recommended Practice	Shawn Turner	Draft complete; review panel to be selected.	Active	2006
March 2006	National Bicycle and Pedestrian Documentation Program	Develop a consistent bicycle and pedestrian count methodology and have it reviewed and approved by peer groups. Collect, compile, and analyze counts from agencies and groups who submit them.	Recommended Practice	Michael Jones	Counts and surveys were conducted and analyzed in 2005 in over 20 communities, and summarized in a presentation to TRB in January 2006. TRB expressed interest in this as a future priority research topic. A presentation of preliminary findings was also given at the ITE conference in San Antonio in March 2006.	Active	2008
July 2005	Include Pedestrian and Bicycle Trips on ITE Trip Generation Forms	Update the ITE Trip Generation Handbook and associated forms to include pedestrians and bicycles as well as autos.	Informational Report	Lisa Fontana Tierney	In progress.	Active	2006
July 2006	Web Seminars on Pedestrian and Bicycle Innovations	Work with ITE Headquarters to develop and deliver web seminars based on informational reports (Alternative Treatments for At-Grade Pedestrian Crossings, Innovative Bicycle Treatments).	Other	Matthew Ridgway	In progress. ITE began hosting these seminars in January 2006.	Ongoing	Ongoing
November 2005	Pedestrian and Bicycle Council Web Pages	Update and maintain relevant information on the Council's web pages found at http://www.ite.org/councils/Ped_Bike/index.asp .	Other	Shawn Turner	Council's web pages have been updated.	Ongoing	Ongoing

July 2005	Complete the Streets Coalition	Represent the ITE Pedestrian and Bicycle Council on the "Complete the Streets" coalition and report relevant information back to the Council.	Other	John LaPlante	In progress.	Ongoing	Ongoing
November 2005	MUTCD Tracking	Track and report on the status of potential pedestrian and bicycle updates to the MUTCD.	Other	Richard Moeur	Will continue to provide status reports at Council meetings.	Ongoing	Ongoing
November 2005	Pedestrians at Roundabouts	Track and report on the status of NCHRP 3-78, which is addressing issues related to visually impaired pedestrians at roundabouts.	Other	Janet Barlow	Will continue to provide status reports at Council meetings.	Ongoing	Ongoing

7. Nonmotorized Transportation Pilot Program

Summary

Nonmotorized Transportation Pilot Program

January, 2007

SAFETEA-LU (Section 1807) establishes a program in four pilot communities to “construct a network of nonmotorized transportation infrastructure facilities, including sidewalks, bicycle lanes, and pedestrian and bicycle trails, that connect directly with transit stations, schools residences, businesses, recreation areas, and other community activity centers”. The purpose of the program is “to demonstrate the extent to which bicycling and walking can carry a significant part of the transportation load and represent a major portion of the transportation solution, within the selected communities”.

The SAFETEA-LU authorizes a total of \$25 million for each of four communities over FY 2006 – 2009. As identified in law, the four communities are: Columbia, MO; Marin County, CA; Minneapolis-St Paul, MN; and Sheboygan County, WI.

Eligible Projects and Costs

The types of projects that are eligible for funding under this program are:

- infrastructure projects that create a bicycle and pedestrian network
- educational programs
- promotion
- network and project planning
- data collection, analysis, and reporting.

Leveraging Other Funds

Depending on the scale of the network and the scope of activities needed to carry out the pilot, a community may need to leverage other Federal, State, local or private funds for constructing the network and promoting its use. Leveraging should be viewed in the broadest sense, including other Federal-aid highway funds such as Surface Transportation Program (including transportation enhancements), Congestion Mitigation and Air Quality (where applicable), Highway Safety Improvement Program, Safe Routes to School (if the network is directly related to a safe routes to school initiative in the community), etc.

Data Collection and Evaluation

As a pilot program, there is a need for an evaluation effort to determine the extent to which it achieves its purpose. The legislation requires the submission of an interim report by September 30, 2007, and a final report by September 30, 2010, to the Congress on the results of this pilot program.

Current Status

The program has been launched successfully in each of the Pilot Communities -- administrative procedures established, local staffing completed, and public outreach begun. In each community, advisory groups have been identified and project solicitation and selection procedures crafted.

At the national level, an evaluation program has been created and an initial “before” survey completed. Further work on project specific measurements is underway.

A national communications program has also underway to coordinate the efforts of the Pilot Communities to exchange information with each other, to reach out to local stakeholders and constituents and to build an information base useful for other agencies and organizations across the country that are interested in encouraging more biking and walking in their communities.

For further information, become a member of the “nonmotoring” listserve at:

nonmotoring-subscribe@yahoogroups.com

Or visit these websites:

Columbia, MO: www.gocolumbiamo.com/PedNet_Project/index.php

Marin County, CA: www.walkbikemarin.org

Minneapolis, MN: www.tlcmnnesota.org/Resources/NTP%20Program/ntp.html

Sheboygan, WI: www.co.sheboygan.wi.us/

Or contact:

John Fegan	Federal Highway Administration	john.fegan@dot.gov
Franz Gimmler	Rail-to-Trails Conservancy	franz@railstotrails.org

8. TRB

Note from J. Dill: I've copied portions of the *State of TRB January 2007 Report (aka 'The Cheat Sheet')* that I thought would be of interest to committee members and friends.

Paper Submissions Surpass Record, TRB Server Capacity

More than 3,000 papers were submitted for consideration for Annual Meeting presentation and/or TRR publication for 2007—another new record. Committees assigned reviewers to all papers, and the vast majority of reviews were received by the September 19 due date. Session proposals from committees were submitted by October 1. Speaker invitations were sent in October, and the program was posted on the TRB website in early November.

All did not go smoothly with the paper submissions, however. Authors attempted to submit more than 2,000 papers in the final 24 hours before the original August 1 deadline. When the TRB servers couldn't handle the volume, we were forced to extend the deadline through August 6. Although every author who tried to submit a paper by the original deadline was eventually able to do so by August 6, the first week in August was a time of significant frustration for the authors and TRB staff. Authors resubmitting papers by the November 15 deadline also experiences some delays.

Options being considered to avoid a repeat of this experience in 2007 include:

1. Expand TRB server capacity: Arrange and pay for additional server capacity to handle this once-a-year peak in demand (we thought we had done that for this year)
2. Congestion pricing: Attempt to stagger demand by allowing authors to submit papers at no cost up to a certain date, but charging gradually increasing processing fees as the date gets closer to August 1. Charging authors for multiple paper submissions might also be included.
3. Stagger by topic: Establish different paper submission due dates by topic area
4. Some combination of the above

The Technical Activities Council has recommended option #3. The plan would require papers from one set of topic areas to be submitted by July 27, and the second set by August 1. TRB staff is also working to revise how our servers handle these papers for more efficient processing.

Poster Sessions Continue to Grow

The number and percent of papers presented in “Meet the Author” poster sessions continues to set records each year. Steps taken to group poster presentations on similar topics have helped to create a critical mass and synergy that has significantly increased the popularity of these sessions. While there continues to be concern expressed by some international participants over the value of traveling long distances for a poster session, steps have been take to assure authors that the acceptance criteria for poster session presentations is the same as for lectern sessions (the decision on where to place a paper is not made until after the paper review and acceptance process is complete).

	2004	2005	2006	2007
# Lectern Sessions	498	470	469	455
# Poster Sessions	46	65	88	134
# Workshops	62	62	73	79

Almost half of the papers will be presented in poster sessions or “hybrid” sessions. The latter provide an opportunity for authors to present a very short (3 to 5 minute) introduction of their poster session paper in a lectern session format.

3070 Total Papers Submitted

1849 (60.2%) Total Papers Selected for Presentation

935 (50.5%)	Papers Presented in Lectern Sessions
752 (40.7%)	Papers Presented in Poster Sessions
123 (6.7%)	Papers Presented in “Hybrid” Poster/Lectern Sessions
39 (2.0%)	Papers Presented in Meetings

In addition, the program includes 1350 invited speaker presentations. Approximately 25% of submitted papers will be accepted for publication in the Transportation Research Record series.

Research Needs Statements Database Developed – Ready for Data Entry by Committees

TRB standing committees are responsible for maintaining a collection of research problem statements for the most needed research in their topic area. However, until now there has not a central place where these can be housed and shared. As announced last summer, a TRB research needs database has been developed. It will be available for viewing at the TRB TRIS booth at the TRB 2007 Annual Meeting in January.

For this to be successful, standing committees will need to enter and maintain their collection of research problem (needs) statements. The Technical Activities Council has therefore asked committee chairs to assign this responsibility to one or more individuals on your committee. TRB will ask for the name(s) of these individuals as part of a survey to all Chairs following the Annual Meeting.

Groups to Audit Scopes of Standing Committees

The Technical Activities Council is asking each Group to audit the scopes, levels of activities, performance, and potential of committees during 2007 to determine if any committees should be dropped, combined, or changed to subcommittees. This action is being undertaken in response to comments made by a number of TRB Executive Committee members as part of the discussions on the TRB strategic plan. It also reflects the limits in TRB resources to support the growing number of standing committees and task forces.

Criteria have been developed to help the Groups in evaluating the available alternatives, specifically in the following areas where little or no criteria previously existed:

- Eliminating or combining existing committees
- Establishing task forces
- Establishing joint subcommittees

9. TRB STRATEGIC PLAN UPDATE

November 2006 Draft

V. OBJECTIVES AND ACTION PLAN

“A goal without a plan is just a wish.”

Antoine de Saint-Exupéry

The following objectives have emerged from the strategic planning process, based on the Executive Committee’s scan of the external and internal environments; revised TRB mission and goals; surveys of standing committee chairs, state representatives, and e-newsletter subscribers; analysis of TRB strengths, weaknesses, opportunities and threats; and gap analysis. Under each objective, potential actions are noted. Some of these candidate actions were proposed by members of the Subcommittee on Planning and Policy Review at its October 2006 meeting; others were suggested by respondents to one of the three strategic planning surveys conducted by TRB; and still others build on action items in the Board’s prior strategic plan or are proposed by TRB staff. This broad set of candidate actions is included here for the purpose of discussion; it is not expected that all of these actions will be featured in the final plan. Finally, to assist the Executive Committee in its review of this draft, the bracketed line beneath the title of each objective below identifies which ‘rubric’ the objective belongs to (using the three rubrics suggested by Adib Kanafani—finance; outreach; and research, knowledge, and information), and also indicates which of the Plan’s 8 Goals it relates to.

1. Broaden and solidify TRB’s financial base

[*FINANCE*; all goals]

A. Develop a strategy to enhance revenues:

- Consider increasing conference and workshop registration fees, publication prices, and other charges to bring them more into line with the market
- Increase private-sector base and enhance revenues by offering recognition opportunities for organizations that contribute to TRB, e.g. by listing them as contributors in the Annual Meeting Program, etc.

B. Develop a fundraising strategy to diversify and increase core support:

- Explore potential for stronger relationships with foundations, including research foundations of transportation organizations
- Restructure TRB Affiliates program to attract more donors and yield greater revenues by targeting affiliate packages and services to different constituencies, including the private sector, universities, and public agencies
- Develop strategy to engage high-ranking officials of government agencies more actively, to ensure their continuing support for TRB; assist them in understanding how the changing role of governments in transportation is changing funding mechanisms in a way that may affect research and TRB
- Develop strategy to attract support from additional federal government agencies, including those that are ‘lapsed’ TRB sponsors

2. Expand coverage and relevance

[*RESEARCH, KNOWLEDGE, & INFORMATION; OUTREACH*; goals: 1, 4, 5, 6]

A. Develop a strategy to expand TRB’s coverage and its relevance to different segments of the transportation community:

- Freight — build on existing activities and leverage new National Cooperative Freight Research Program; pursue active outreach to freight companies and associations
- Aviation — build on existing activities and leverage new Airport Cooperative Research Program; pursue active outreach to aviation agencies and associations
- Local government — Establish closer ties with metropolitan planning organizations (MPOs), local government; pursue active outreach to MPOs, mayors, counties, and county associations
- State DOTs—Explore methods to enhance the ability of state DOT employees to participate directly in TRB committees, meetings, and conferences
- International — promote meaningful partnerships with transportation research organizations outside the United States; assess opportunities for expanded international collaboration on research and other activities; pursue active outreach to international transportation community
- Industry and professional groups—pursue partnerships and joint activities with other organizations, including those that have overlapping interests and are not TRB sponsors, as well as organizations such as tollway authorities and international firms that are playing a bigger role in operating U.S. transportation facilities
- Review how effectively the current structure and activities of TRB’s Marine Board serve the needs of the marine transportation community and various maritime sectors; identify opportunities to broaden and strengthen the Marine Board’s ability to identify research and engineering needs and to provide a forum for exchange of information

B. Promote greater involvement by women, minorities, and young professionals

- Explore establishing a special relationship with historically black college(s) or minority-serving institution(s), to bring TRB’s research focus to the institution(s) and facilitate increased participation (TTI model)
- Explore creation of scholarship program for minority students and young professionals to attend TRB Annual Meeting
- Continue measures already in place to enhance diversity, such as following through with monitoring minority subcontracting on CRP projects

3. Improve Effectiveness of TRB

[RESEARCH, KNOWLEDGE, & INFORMATION: goals 1, 2, 3, 4, 5, 6]

A. Target advice and guidance

- Issue and update regularly a comprehensive transportation research agenda, keyed to the *Critical Issues*
- Anticipate future transportation challenges and explore means of addressing them, e.g. through self-initiated policy studies, core technical activities
- Building on action item from 2002 TRB Strategic Plan to develop a ‘big issues in transportation’ study series, identify several key national transportation policy issues for which there are significant gaps in information/analysis, together with potential study designs and fundraising suggestions
- Serve as an information resource on research issues for staff of Congressional committees, especially during reauthorization cycles
- Improve and expedite the reporting of research results to practitioners, e.g. through practical information and tools generated from research

B. Ensure continuing strength and relevance of TRB standing committees

- Improve coordination, communications, and linkages among committees, sections, and groups
- Audit the scopes of existing committees to discover any major gaps that need to be filled and to identify opportunities for merging of existing committees
- Enhance committees' ability to address emerging and cross-cutting issues, including issues that may not fall within the domain of an existing committee
- Develop and update research needs statements, to be provided as a comprehensive electronic database available to sponsors, affiliates, and subscribers
- Pursue measures to foster increased participation and leadership on standing committees by women, minorities, and young professionals
- Pursue measures to address growing size and complexity of TRB Annual Meeting
- Monitor effectiveness of measures taken to improve stature of TRB's peer review process, including establishment of TRR Publication Board; consider additional measures/refinements as appropriate
- Present more research of interest to the private sector; sponsor conferences/sessions for industry, practitioners

C. Ensure continuing strength and relevance of TRB research management activities; assist in development of additional cooperative research programs

- Monitor effectiveness and usefulness to customers of TRB's research management activities
- Develop 'success stories' from newer programs to assist in marketing their continuation and funding support in the future
- Provide information and guidance upon request to other organizations interested in initiating cooperative research, such as metropolitan planning organizations (MPOs) or toll road authorities
- Provide information on how individuals are selected to serve on CRP panels and SHRP II expert task groups
- Provide information on 'matchmaking' for individuals/organizations who wish to form a team to propose on a research project

4. Promote enhanced outreach and public understanding of TRB, research, and transportation [OUTREACH; goals 2, 6, 7, 8]

A. Promote public understanding of TRB, research, and transportation

- Explore means to facilitate two-way communication with transportation customers—to better understand them and their needs, and to communicate more effectively with them on issues and solutions
- Include technology transfer and information dissemination as part of initial planning of research projects, conferences, and other TRB products
- Develop strategies to achieve greater visibility for research results, enhanced coverage of transportation and transportation research stories
- Do a better job of communicating the benefits of TRB participation, including direct communications/meetings with elected and appointed officials and decision makers
- Undertake more aggressive marketing of TRB—build on existing activities, develop stronger ties with media, and raise TRB profile with targeted groups and the general public (e.g., through an attention-getting tool on research similar to ASCE's 'report card' on the state of U.S. infrastructure)

B. Enhance electronic outreach

- Make enhancements to website and e-newsletter formats, accessibility
- Put *Transportation Research Record* journal series online, available through subscription and on pay-per-view basis (individual articles)
- Use webcasts, e-newsletters, and other technology tools to reach those who find it hard to attend meetings
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10. TRB Standing Committees and Task Forces

Use this list to help identify committees that we should liaison with. It would be nice if each committee member was a liaison with another TRB committee or organization. We have liaisons identified already for the Pedestrian Committee and Task Force on Context Sensitive Design/Solutions.

Committee liaisons would be expected to:

- keep up on the activities of the other committee;
- let that committee know of our committee activities that may be of interest;
- let our committee know what that committee is doing; and
- identify opportunities for collaboration, such as research problem statements, joint sessions, calls for papers, and joint subcommittees.

AB000 Policy and Organization Group

ABC00 Section - Management and Leadership

ABC10 [Strategic Management](#)

ABC20 [Management and Productivity](#)

ABC30 [Performance Measurement](#)

ABC40 [Transportation Asset Management](#)

ABC99B [U.S. and International Approaches to Performance Measurement for Transportation Systems: A Conference](#)

ABE00 [Section - Transportation Policy](#)

ABE10 [Taxation and Finance](#)

ABE20 [Transportation Economics](#)

ABE25 [Congestion Pricing](#)

ABE30 [Transportation Issues in Major U.S. Cities](#)

ABE40 [Critical Transportation Infrastructure Protection](#)

ABE50 [Transportation Demand Management](#)

ABE60 [Accessible Transportation and Mobility](#)

ABE70 [Women's Issues in Transportation](#)

ABE80 [Native American Transportation Issues](#)

ABE90 [Transportation in the Developing Countries](#)

ABG00 Section - Research and Education

ABG10 [Conduct of Research](#)

ABG20 [Transportation Education and Training](#)

ABG30 [Technology Transfer](#)

ABG40 [Library and Information Science for Transportation](#)

ABG50 [Transportation History](#)

ABJ00 Section - Data and Information Systems

ABJ10 [National Transportation Data Requirements and Programs](#)

ABJ20 [Statewide Transportation Data and Information Systems](#)

ABJ25T [Task Force on the Traffic Monitoring Conferences](#)

ABJ30 [Urban Transportation Data and Information Systems](#)

ABJ40 [Travel Survey Methods](#)

ABJ50 [Information Systems and Technology](#)

ABJ60 [Geographic Information Science and Applications](#)

ABJ70 [Artificial Intelligence and Advanced Computing Applications](#)

ABJ80 [Statistical Methodology and Statistical Computer Software in Transportation Research](#)

ABJ90	Freight Transportation Data
ABJ95	Visualization in Transportation
AD000	Planning and Environment Group
ADA00	Section - Transportation System Policy, Planning and Process
ADA10	Statewide Multimodal Transportation Planning
ADA20	Metropolitan Policy, Planning, and Processes
ADA30	Transportation Planning for Small and Medium-Sized Communities
ADA40T	Task Force on the Transportation Needs for National Parks and Public Lands
ADA50	Transportation Programming, Planning, and Systems Evaluation
ADA60	Public Involvement in Transportation
ADA70	Access Management
ADA99B	Committee on the Metropolitan Planning Organization, Present and Future: A Conference
ADA99C	Key Issues in Transportation Programming: Second National Conference
ADB00	Section - Travel Analysis Methods
ADB10	Traveler Behavior and Values
ADB20	Telecommunications and Travel Behavior
ADB30	Transportation Network Modeling
ADB40	Transportation Demand Forecasting
ADB50	Transportation Planning Applications
ADB60T	Task Force on Moving Activity-Based Approaches to Practice
ADB99A	Innovations in Travel Demand Modeling: A Conference
ADC00	Section - Environment and Energy
ADC10	Environmental Analysis in Transportation
ADC20	Transportation and Air Quality
ADC30	Ecology and Transportation
ADC30T	Task Force on Ecology and Transportation
ADC40	Transportation-Related Noise and Vibration
ADC50	Historic and Archeological Preservation in Transportation
ADC60	Waste Management and Resource Efficiency in Transportation
ADC70	Transportation Energy
ADC80	Alternative Transportation Fuels
ADD00	Section - Social, Economic, and Cultural Issues
ADD10	Transportation and Economic Development
ADD20	Social and Economic Factors of Transportation
ADD30	Transportation and Land Development
ADD40	Transportation and Sustainability
ADD50	Environmental Justice in Transportation
AF000	Design and Construction Group
AF010T	Task Force on Design-Build
AF020T	Task Force on Roadway Pavement Preservation
AFB00	Section - Design
AFB10	Geometric Design
AFB20	Roadside Safety Design
AFB30	Low-Volume Roads
AFB40	Landscape and Environmental Design
AFB50T	Task Force on Context Sensitive Design/Solutions (CSD/CSS)
AFB60	Hydrology, Hydraulics and Water Quality
AFB70	Utilities
AFB80	Geospatial Data Acquisition Technologies in Design and Construction
AFD00	Section - Pavement Management
AFD10	Pavement Management Systems
AFD20	Pavement Monitoring, Evaluation and Data Storage
AFD30	Highway Traffic Monitoring
AFD40	Full-Scale and Accelerated Pavement Testing
AFD50	Rigid Pavement Design
AFD60	Flexible Pavement Design
AFD70	Pavement Rehabilitation
AFD80	Strength and Deformation Characteristics of Pavement Sections

AFD90	<u>Surface Properties - Vehicle Interaction</u>
AFF00	Section - Structures
AFF10	<u>General Structures</u>
AFF20	<u>Steel Bridges</u>
AFF30	<u>Concrete Bridges</u>
AFF40	<u>Dynamics and Field Testing of Bridges</u>
AFF50	<u>Seismic Design and Performance of Bridges</u>
AFF60	<u>Tunnels and Underground Structures</u>
AFF70	<u>Culverts and Hydraulic Structures</u>
AFF80	<u>Structural Fiber Reinforced Polymers</u>
AFH00	Section - Construction
AFH10	<u>Construction Management</u>
AFH20	<u>Management of Quality Assurance</u>
AFH30	<u>Emerging Technology for Design and Construction</u>
AFH35T	<u>Task Force on Accelerating Innovation in the Highway Industry</u>
AFH40	<u>Construction of Bridges and Structures</u>
AFH50	<u>Portland Cement Concrete Pavement Construction</u>
AFH60	<u>Flexible Pavement Construction and Rehabilitation</u>
AFH70	<u>Fabrication and Inspection of Metal Structures</u>
AFH80	<u>Disadvantaged Business Enterprises (DBE)</u>
AFK00	Section - Bituminous Materials
AFK10	<u>General Issues in Asphalt Technology</u>
AFK20	<u>Characteristics of Bituminous Materials</u>
AFK30	<u>Characteristics of Nonbituminous Components of Bituminous Paving Mixtures</u>
AFK40	<u>Characteristics of Bituminous-Aggregate Combinations To Meet Surface Requirements</u>
AFK50	<u>Characteristics of Bituminous Paving Mixtures to Meet Structural Requirements</u>
AFN00	Section - Concrete Materials
AFN10	<u>Basic Research and Emerging Technologies Related to Concrete</u>
AFN15T	<u>Task Force on Nanotechnology-Based Concrete Materials</u>
AFN20	<u>Properties of Concrete</u>
AFN30	<u>Durability of Concrete</u>
AFN40	<u>Concrete Materials and Placement Techniques</u>
AFP00	Section - Geology and Properties of Earth Materials
AFP10	<u>Engineering Geology</u>
AFP15T	<u>Task Force on Rockfall Evaluation and Control</u>
AFP20	<u>Exploration and Classification of Earth Materials</u>
AFP30	<u>Soil and Rock Properties</u>
AFP40	<u>Physicochemical and Biological Processes in Soils</u>
AFP50	<u>Frost Action</u>
AFP60	<u>Engineering Behavior of Unsaturated Soils</u>
AFP70	<u>Mineral Aggregates</u>
AFS00	Section - Soil Mechanics
AFS10	<u>Transportation Earthworks</u>
AFS20	<u>Soils and Rock Instrumentation</u>
AFS30	<u>Foundations of Bridges and Other Structures</u>
AFS40	<u>Subsurface Soil-Structure Interaction</u>
AFS50	<u>Modeling Techniques in Geomechanics</u>
AFS60	<u>Subsurface Drainage</u>
AFS70	<u>Geosynthetics</u>
AFS80	<u>Cementitious Stabilization</u>
AFS90	<u>Chemical and Mechanical Stabilization</u>
AH000	Operations and Maintenance Group
AH010T	<u>Task Force on Surface Transportation Weather</u>
AHB00	Section - Operations
AHB10	<u>Regional Transportation Systems Management and Operations</u>
AHB15	<u>Intelligent Transportation Systems</u>
AHB20	<u>Freeway Operations</u>
AHB25	<u>Traffic Signal Systems</u>
AHB30	<u>Vehicle-Highway Automation</u>

AHB35 [High-Occupancy Vehicle Systems](#)
AHB40 [Highway Capacity and Quality of Service](#)
AHB45 [Traffic Flow Theory and Characteristics](#)
AHB50 [Traffic Control Devices](#)
AHB55 [Work Zone Traffic Control](#)
AHB60 [Highway/Rail Grade Crossings](#)
AHB65 [Operational Effects of Geometrics](#)
AHD00 Section - Maintenance
AHD10 [Maintenance and Operations Management](#)
AHD15 [Maintenance and Operations Personnel](#)
AHD20 [Pavement Maintenance](#)
AHD25 [Sealants and Fillers for Joints and Cracks](#)
AHD30 [Structures Maintenance](#)
AHD35 [Bridge Management](#)
AHD40 [Polymer Concretes, Adhesives, and Sealers](#)
AHD45 [Corrosion](#)
AHD50 [Roadside Maintenance Operations](#)
AHD55 [Signing and Marking Materials](#)
AHD60 [Maintenance Equipment](#)
AHD65 [Winter Maintenance](#)

AL000 Legal Resources Group

AL010 [Transportation Law](#)
AL020 [Transit and Intermodal Transportation Law](#)
AL030 [Contract Law](#)
AL040 [Emerging Technology Law](#)
AL050 [Environmental Issues in Transportation Law](#)
AL060 [Eminent Domain and Land Use](#)
AL070 [Tort Liability and Risk Management](#)

AN000 System Users Group

ANB00 Section - Safety
ANB10 [Transportation Safety Management](#)
ANB20 [Safety Data, Analysis and Evaluation](#)
ANB23T [Task Force on Highway Safety Workforce Development](#)
ANB25T [Task Force on the Development of the Highway Safety Manual](#)
ANB30 [Operator Education and Regulation](#)
ANB40 [Traffic Law Enforcement](#)
ANB45 [Occupant Protection](#)
ANB50 [Alcohol, Other Drugs, and Transportation](#)
ANB60 [Safe Mobility of Older Persons](#)
ANB70 [Truck and Bus Safety](#)
ANB75T [Task Force on Roundabouts](#)
AND00 Section - Users Performance
AND10 [Vehicle User Characteristics](#)
AND20 [User Information Systems](#)
AND30 [Simulation and Measurement of Vehicle and Operator Performance](#)
AND40 [Visibility](#)
ANF00 Section - Pedestrians and Cycles
ANF10 [Pedestrians](#)
ANF20 [Bicycle Transportation](#)
ANF30 [Motorcycles and Mopeds](#)

AP000 Public Transportation Group

AP010 [Transit Management and Performance](#)
AP015 [Transit Capacity and Quality of Service](#)
AP020 [New Public Transportation Systems and Technology](#)
AP025 [Public Transportation Planning and Development](#)
AP030 [Public Transportation Marketing and Fare Policy](#)
AP035 [Transit Fleet Maintenance](#)

AP040	Major Activity Center Circulation Systems
AP045	Intermodal Transfer Facilities
AP050	Bus Transit Systems
AP055	Rural Public and Intercity Bus Transportation
AP060	Paratransit
AP065	Rail Transit Systems
AP070	Commuter Rail Transportation
AP075	Light Rail Transit
AP080	Rail Transit System Design
AP085	Ferry Transportation
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AR000	Rail Group
AR010	Intercity Rail Passenger Systems
AR020	Guided Intercity Passenger Transportation
AR030	Railroad Operating Technologies
AR040	Local and Regional Rail Freight Transport
AR050	Railroad Track Structure System Design
AR060	Railway Maintenance
AR070T	Task Force on Railroad Operational Safety
AT000	Freight Systems Group
AT010	Freight Transportation Economics and Regulation
AT015	Freight Transportation Planning and Logistics
AT016T	Task Force on Innovations in Freight Transportation Modeling
AT020	International Trade and Transportation
AT025	Urban Freight Transportation
AT030	Agricultural Transportation
AT035	Military Transportation
AT040	Transportation of Hazardous Materials
AT045	Intermodal Freight Transport
AT050	Intermodal Freight Terminal Design and Operations
AT055	Motor Vehicle Size and Weight
AT060	Trucking Industry Research
AT099A	Freight Transportation Industry Roundtable
AT099B	Committee on Freight Demand Modeling: A Conference on Tools for Public-Sector Decision Making
AV000	Aviation Group
AV010	Intergovernmental Relations in Aviation
AV020	Aviation System Planning
AV030	Environmental Impacts of Aviation
AV040	Aviation Economics and Forecasting
AV050	Airport Terminals and Ground Access
AV060	Airfield and Airspace Capacity and Delay
AV070	Aircraft/Airport Compatibility
AV080	Light Commercial and General Aviation
AV090T	Task Force on Aviation Security and Emergency Management
AV099B	Developing Aviation Environmental Design Tools (AEDT) and Aviation Environmental Portfolio Management Tools (APMT)--A Workshop Series
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AW000	Marine Group
AW010	Ports and Channels
AW020	Inland Water Transportation
AW030	Marine Environment