

STATE OF TRB
July 2007 Report
(a.k.a. “The Cheat Sheet”)

This document is being provided to the chairs of TRB Groups, Sections, committees and task forces for their information and use in planning committee activities. It is also hoped that this “State of TRB” overview will help to maximize the efficient use of available time during any upcoming meetings. Comments are welcome, and can be addressed to Mark Norman (mnorman@nas.edu) or any TRB staff member.

1. Progress Made in Closing Budget Gap for 2007

TRB is on track to meet our \$1.1 million goal for revenue increases/cost reductions for calendar year 2007 – barring unforeseen developments. This matches the annual drop in FHWA’s level of support from the originally approved TRB 2007-2009 triennium budget for TRB core programs.

Within the Technical Activities Division:

- Our budget target for increased revenue from the TRB 2007 Annual Meeting registration fees was achieved.
- Additional money was saved by using convention services staff rather than TRB staff for on-site registration at the Annual Meeting.
- In late February, the Technical Activities Division committees and staff finished the selection of papers to be published in the TRR series. The percent of submitted papers selected dropped from 30% last year to 24.5% for 2007, surpassing our budget target of 25%.
- The approved 2007 travel budgets for Division staff total \$24,000 less than budgeted for last year and \$40,000 less than the year before.
- The Division recently purchased GoToWebinar® software that will allow us to initiate our webinar series for about \$8,000/year, as opposed to the \$150,000 that we had included in the original triennium budget. (The higher figure reflected typical costs at that time, using the standard model of hiring an outside service to set up and manage the webinars. The recently released GoToWebinar package allows unlimited webinars to be managed in-house for a annual flat fee for licensing of the software.)
- Budgeted reduced staff levels are being adhered to. We continue to reshuffle existing staff to make the best use of existing talents and to maximize productivity. Of course, existing staff is being stretched by current demands and new programs.

Cuts in costs and staffing for TRIS and *TRNews* are also contributing to the bottom line. As Bob Skinner predicted in January, about 30% of the \$1.1 million annual gap closure so far has been due to revenue increases, primarily the Annual Meeting. The remainder is due mostly to cost cutting, with a significant portion of this from reductions in planned staff levels that have been implemented. Hopefully, our efforts to generate revenue - including the introduction of the TRR Online subscription service, webinar registrations, dues and publication increases, and Annual Meeting exhibits/sponsorships - will begin to bear fruit soon.

TRB appreciates the efforts of standing committee chairs to date reduce costs through the adherence to the 25% limit on acceptance of papers for TRR publication, and reductions in requests for travel reimbursement from TRB.

2. Technical Activities Division Adopts Action Plan Based on TRB Strategic Plan

The Technical Activities Council (TAC) has completed the development of an Action Plan that draws from the action items in the updated TRB Strategic Plan. The development of both the TAC Action Plan and the updated TRB Strategic Plan relied heavily on the input received from the standing committees in late 2006 and early 2007. A copy of the TAC Action Plan, which will be used to help guide the deliberations and activities of the Technical Activities Council and TRB staff in the coming years, is attached. The Action Plan is intended to be a living document. As such, committee Chairs and Members are welcome to send in comments or ideas at any time. **In addition, TAC asks each Chair to think about implementation options as they affect your own committees, and to consider the items contained in the attached Action Plan as part of your committee's triennial strategic plan. Chairs are also reminded to review TRB's Critical Issues and their committee's millenium paper when updating your triennial strategic plan.**

TAC Action Plan, encourage them to take into account TRB critical issues, committee millennium papers, and Action Plan as part of their triennial strategic planning updates.

3. Change Is In the Air for 2008 TRB Annual Meeting

A. 2007 Annual Meeting Follow-ups:

Registrations for the TRB 2007 Annual Meeting exceeded 10,400, slightly exceeding last year's record. Many compliments were received regarding this year's meeting program and administration. Staff held a debriefing in February and identified a number of improvements that will be implemented for the 2008 meeting.

B. 2008 Annual Meeting Spotlight Theme and Cross-Cutting Sessions:

"Partnerships for Progress in Transportation" is the theme for the 2008 TRB 87th Annual Meeting, January 13-17, 2008, in Washington, D.C:

Progress towards addressing TRB's critical issues in transportation will not be possible without joint efforts and collaboration. Resolving issues such as congestion, safety, funding, energy, environment, intellectual capital, security and infrastructure protection, and others will require partnerships among a myriad of players. The 2008 TRB Annual Meeting spotlight theme "Partnerships for Progress in Transportation" will explore past and recent experiences, and the need and potential for partnerships inside and outside of the transportation community and around the world.

At its June meeting, the Technical Activities Council authorized the development of the following multi-Group sessions addressing the Partnerships theme and other cross-cutting issues. These sessions will not count against committee session allocations.

- Climate change (include under Partnership spotlight theme) (Operations & Maintenance, Marine, Aviation, Planning & Environment – P&E).
- Partnerships in Design: The Role of Well-Designed Transportation Facilities in Enhancing Communities (Policy & Organization Group - POG)

- Local and Statewide Coordination in Safety Data Programs (POG)
- Institutional Arrangements to Advance Public-Private Partnerships Parts 1 & 2 (POG)
- Partnering to Respond to the Perfect Snow Storm – The Colorado and Pennsylvania Experiences (POG)
- Implementing Strategic Highway Safety Programs Systems (Systems Users Group lead development. Work with POG and P&E Groups)
- Implementing Vehicle Infrastructure Integration - VII. (Operations and Maintenance Group lead. Work with POG, Legal Resources, and Safety Groups).
- Coordination of Transit, Regional Transportation Planning and Land Use (Public Transportation Group lead. Work with P&E Group)
- Effects of globalization on transportation (Freight, Marine, and POG Groups)

TAC asks committees to consider sessions and presentations addressing the Partnership spotlight theme, energy, climate change, and performance measurement.

C. Dual Paper Submission Deadline Introduced

To avoid the paper submission processing delay problems that occurred at the August 1 deadline last year, TRB has obtained additional server capacity and has changed the process for converting the papers to pdf format. This system has been successfully tested by staff. In addition, dual submission dates are being introduced, as noted in the announcement below:

TRB has implemented dual paper submittal deadlines for the 2008 Annual meeting: Papers in non-PDF formats must be submitted by midnight of July 27, 2007; and Papers in PDF format must be submitted by midnight of August 1, 2007. (see Participants Guide for details). Authors are strongly encouraged to convert their paper to PDF format prior to submission to the TRB website to take advantage of the later deadline and to facilitate quicker processing of their paper. TRB also reminds authors that the best way to avoid last minute complications is to submit their paper well before these deadlines.

D. Exhibits/Sponsorships Introduced

For the first time ever, TRB is offering two opportunities for businesses and other organizations to showcase themselves at the 2008 Annual Meeting. TRB is launching commercial exhibits at which products and services may be presented. In addition, general meeting and targeted sponsorship opportunities are available. TRB's Annual Meeting Prospectus includes general exhibit information, exhibit rules and regulations, and details on the general and targeted sponsorship packages. Exhibit space and/or sponsorship packages may be purchased using TRB's exhibit and sponsorship application online system.

TRB has developed the opportunities described in its Annual Meeting Prospectus to enable organizations to select the option that best fits their needs. Meeting support begins at \$2,000, and exhibit space is available starting at \$25 per square foot. The prospectus and additional information can be found on the 2008 TRB Annual Meeting website.

E. Hotels Being Renovated

Both the Marriott and the Hilton hotels will be undergoing renovations in January 2008, resulting in a net loss of available session and meeting rooms compared to last year. This will probably necessitate scheduling more sessions Thursday morning, sessions on Wednesday evening, and

the use of temporary meeting rooms. Due to the construction, the Chairman's Luncheon and TRB Executive Committee meeting are expected to remain in the Shoreham for another year.

4. August 15 Deadline for Entries into TRB Research Needs Statements Database

TRB will announce the availability of its new Research Needs Statements (RNS) database to the general public in early September. **Committee chairs are asked to take steps to assure your committee's statements are entered by August 15.**

In February, TRB staff provided instructions to those whom the committees had designated to enter their collection of approved research problem (needs) statements. This entry is currently underway. As of late June, more than 400 statements have been entered in the RNS Database. Of the 31 subject areas identified in the system, there is at least one statement for all but three of them. A list of committees and the number of statements they have entered into the RNS database as of June 27 is attached.

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 collected, searched, and shared. The new RNS database will provide a shopping list for all those in the transportation research community who fund and conduct transportation research, including TRB's cooperative research programs, federal agencies, state DOTs, university faculty and students, consultants, and others. By entering committee's statements and keeping them up to date, Chairs can increase the probability that your committee's high priority research will be undertaken, and enhance the exposure that your committee receives.

5. TAC Tackles Committee Membership Issues

The Technical Activities Council addressed a number of membership issues affecting standing committees and committee members at its May and June meetings. Among the items agreed to were:

- **Emeritus Members**: Due to budget restraints and the growing number of Emeritus Members, provide complimentary Annual Meeting registration and Chairman's lunch in first year only. In subsequent years, the Emeritus Member will be eligible for the Committee Member rate. Current Emeritus Members will henceforth pay the Member rate as well (a letter is being sent to current Emeritus Members). In addition, the criteria for designating new Emeritus Members has been revised to stress leadership positions in the sponsoring committee and to require at least 12 years of active participation in the sponsoring committee. **Committee Chairs are reminded that Emeritus Member designations should be reserved for those who have provided the most outstanding leadership and long term active involvement in their committee.**
- **Younger Members**: Change the maximum age of Younger Member at time of appointment from 30 to 32 years old. Thus, the maximum age of a Younger Member at the completion of their three-year term would be 35, the same as the age limit for the Burggraf paper award.
- **Committee Rotations**: Retain the 25 member limit, three-year rotation, and three-term limit for standing committee members with exceptions based on written justification.

TAC will give additional consideration to enhancing the stature of active “Friends” of the committee.

- **International Members:** Increase from four to five the number of International Members who would not count against the 25 member limit for committees. Canadian members may now be included in this limit.
- **Committee Chairs:** Staff will routinely send committee members a notice during the year preceding committee Chair scheduled appointment/reappointment advising of the process and soliciting input from individual members (not the committee as a whole) to the staff for consideration. The Leadership Guide is being revised to involve Group Chairs earlier in the process for nominating Section and Committee Chairs.

6. Groups Reviewing Committee Scopes

In accordance with the updated TRB Strategic Plan, the TRB Executive Committee has directed the Group Executive Boards to review of scopes of existing committees and provide recommendations to TAC, including any gaps that need to be filled, scope changes, dissolution or combining existing committees, or converting existing committees to task forces or subcommittees. Although many Groups routinely do this as part of their triennial strategic planning process, this effort will provide an across the board review of all standing committees at one point in time. Groups have been asked to provide a progress report in October, and a final report in January 2008.

7. TRB Following Up on TRR Publication Board Priorities, Launches TRR Online

At its January meeting, the TRR Publication Board established the following top priorities for 2007:

1. Consider steps to enhance and expedite the availability of TRR papers
2. Try to make the TRR published papers available on a more predictable schedule
3. Consider the potential for year round paper submissions and reviews

Since January, TRB staff has been focusing on item #1. In March, TRB launched the new TRR Online subscription service. In addition, TRB staff has taken steps to make TRR papers that have been selected for publication in the current year available to authors on the TRB website. If current year authors cite these papers, this could significantly increase the TRR impact factor, which is computed based on the number of citations from the previous two years. Other steps were considered that would have shortened the paper review and submittal process, but it was determined that limitations in staff and volunteer resources precluded implementation of these options at this time.

The TRR Online subscription service was launched in March. TRB’s newest web-based information dissemination service provides 24/7 electronic access to more than 7,600 peer-reviewed papers that have been published as part of the *Transportation Research Record: Journal of the Transportation Research Board* series since 1996. This powerful new electronic format for the TRR Journal includes the latest in search and analysis technology. State DOTs and other TRB sponsors are being provided with complimentary subscriptions.

No action has yet been taken on consideration of the potential for year round paper submissions and reviews. Any such consideration will of course involve standing committee chairs.

8. TRB Webinar Series to be Launched

The Technical Activities Division has tested and purchased GoToWebinar® software that will allow us to initiate our TRB webinar series. The webinars are expected to be about 90 minutes in length. Topics are now being selected and scheduled. These are expected to include some of the most popular TRB session topics, and presentations by those involved in preparing newly released TRB products and reports. Our goal is to present at least one TRB webinar each month. Access will be through registration fees, which will be waived for TRB sponsor organizations.

9. TAC Adopts Additional Option for Addressing Energy and Other Cross-Cutting Issues

Methods to address cross-cutting issues was the need mentioned most often by Committee Chairs during our outreach for the update of the TRB strategic plan. It has also been a topic of discussion at almost every recent TAC meeting. Related to this, an effort is currently underway to develop a strategic approach to addressing transportation energy and climate change issues. The approach that is being pursued entails appointing a Special Task Force (STF) on Energy and Climate Change. The STF will report directly to the TAC and the TRB Executive Committee. Task force members would be drawn from a cross-section of standing committees with a direct interest in energy and climate change, supplemented by other experts. A three-year term is envisioned.

During its first year, the STF will develop a strategic plan or road map to help guide the TRB Technical Activities Division in planning activities and involving constituencies relative to energy and climate change. Over its three-year term, the STF will help to coordinate energy and climate change activities across TRB Groups and standing committees, identify joint initiatives, and help to prioritize issues and activities. TAC will evaluate this for application as a more formal approach than we have at present to address critical and cross-cutting issues on a regular basis.

10. Matthew Witzak Selected for 2008 Deen Lecture

Dr. Matthew W. Witzak, currently Professor of Civil Engineering at Arizona State University, has been selected by the Technical Activities Council to present the Thomas Deen Distinguished Lecture at the 2008 TRB Annual Meeting. Nominated by the Design & Construction Group, Dr. Matthew W. Witzak has been one of the outstanding leaders in the area of pavement design and analysis for more than thirty years. Dr. Witzak's efforts have in many ways defined the directions for the next generation of pavement research, during which his influence will continue to be evident. A significant component of Dr. Witzak's legacy is witnessed by the innumerable pavement engineers, whom he has mentored, either directly as his students or indirectly as colleagues benefiting from his willingness to share knowledge.

11. Committee Demographics – Mid 2007

Statistics on standing Committee membership as of mid-2007 are attached. The percentage of international, younger, women, and minority members has increased over last year. **Committee Chairs are reminded to continue their efforts to involve minorities, women, younger members and state DOT employees in standing committee activities.**

The attachment is in an Excel spreadsheet format to allow committees, Sections and Groups to extract relevant information.

#	Action
1	1. Strengthen our Ability to Address Critical and Cross-Cutting Issues
1A	Provide leadership in indentifying emerging, critical, and cross-cutting issues.
1B	Maintain a top down link between TRB identified "Critical Issues" and standing committee activities.
1C	Develop more formal mechanisms to facilitate synergy among multiple committees in addressing critical and other cross-cutting issues.
1D	Conduct strategic review of scopes of all standing committees to assess coverage of critical issues, gaps, overlaps, and opportunities.
1E	Increase opportunities to address common issues across different transportation modes
2	2. Increase the Involvement of Key Constituencies and Groups
2A	Increase involvement of federal agencies that are not currently TRB sponsors
2B	Leverage the new CRP and SHRP-2 programs to increase involvement of these constuencies in standing committee activities.
2C	Establish closer ties with metropolitan planning organizations (MPOs), local agencies, transit agencies, and toll authorities.
2D	Enhance the ability of state DOT employees to participate directly in TRB committees, meetings, and activities.
2E	Attract greater private sector involvement in standing committees.
2F	Involve universities with transportation programs that are not currently associated with TRB
2G	Involve more pedestrians, bicyclists, drivers, and other users of the transportation system
2H	Facilitate greater involvement of individuals and organizatations from outside the U.S.
2I	Promote greater diversity by increasing involvement of women, minorities, and young professionals
2J	Increase number of women, minorities and other key constituencies in committee leadership positions
2K	Establish more formal partnerships with associations representing key constituency groups.
2L	Do a better job of communicating to elected and appointed officials and decision makers the benefits of participation of their employees in standing committees
3	3. Increase our Contributions to Identifying Needed Research, Monitoring Ongoing Research, and Sharing Research Results
3A	Employ a more strategic approach to development and updating of committees' research needs statements
3B	Make committees' research needs statements available as a comprehensive electronic database
3C	Generate more long term visioning and ideas for transportation research. Determine if there are gaps in research needs and initiate development of statements
3D	Include technology transfer and information dissemination as part of initial planning of research projects, conferences, and other committee products
3E	Facilitate technology transfer and dissemination for completed TRB research reports, particularly practical applications
3F	Strengthen linkages between the TRB standing committees and the cooperative research programs, policy studies, and SHRP-2 divisions of TRB.
3G	Develop and maintain primer type guide for obtaining funding for research from TRB and other sources
4	4. Optimize the Effectiveness and Value of the TRB Annual Meeting and Conferences
4A	Plan for future Annual Meeting facilities and venues to accommodate the growing size and complexity of the meeting.
4B	Determine how to accommodate increasing size of Annual Meeting technical program, including number of papers, presentations, sessions, and meetings.
4C	Address the issue of schedule conflicts involving related topics at the Annual Meeting.
4D	Evaluate the role and impact of exhibits and sponsorships at TRB Annual Meeting
4E	Evaluate the effectiveness and value of other TRB conferences and meetings.
4F	Re-evaluate schedule and program for the TRB Summer Conference
5	5. Enhance the Quality, Stature, Accessibility and Usefulness of Our Publications
5A	Make Transportation Research Record (TRR) journal series available online
5B	Make papers to be published in current year TRR available earlier and on more predictable schedule
5C	Increase the citation impact factor of the TRR
5D	Improve stature of TRB's paper peer review process
5E	Consider year round paper submissions and reviews
5F	Publish reports in a more timely manner (e-circulars, conference proceedings, etc.)
5G	Formalize approaches to contribute to TRB e-newsletter and TRNews

6	6. Take Maximum Advantage of New Technology Tools for Communications and Informator
6A	Make enhancements to Technical Activities Division webpages
6B	Use webcasts, e-sessions, conference calls, e-newsletters, and other technology tools to reach those who find it hard to attend meetings
6C	Increase TRB support for committee webpages
6D	Re-evaluate visibility and accessibility of publications in light of greater reliance on electronic versions.
6E	Evaluate and enhance communications portfolios of standing committees
7	7. Facilitate the Ability of Chairs to Effectively Manage, and Volunteers to Effectively Participate in Committees
7A	Reduce the administrative tasks that need to be addressed in order to leave more time for the exchange of ideas and information related to the committee's area of interest
7B	Better explain the administrative requirements and complexities for individuals to understand and for committees to deal with
7C	Provide additional tools/templates/reminders for use by committee chairs
7D	Increase training for committee chairs by TRB staff and peers
7E	Increase recognition of volunteers
7F	Further clarify and strengthen the roles of Groups and Sections
7G	Improve direct communication between TRB and all members of standing committees

RESEARCH NEEDS STATEMENTS DATABASE
Number Entered by Committee as of June 28, 2007

# of Statements	Committee
0	A0010, International Activities
0	AB000, Policy and Organization Group
0	ABC00, Management and Leadership Section
0	ABC10, Strategic Management
0	ABC20, Management and Productivity
0	ABC30, Performance Measurement
0	ABC40, Transportation Asset Management
0	ABE00, Transportation Policy Section
0	ABE10, Taxation and Finance
2	ABE20, Transportation Economics
0	ABE25, Congestion Pricing
0	ABE30, Transportation Issues in Major U.S. Cities
0	ABE40, Critical Transportation Infrastructure Protection
2	ABE50, Transportation Demand Management
0	ABE60, Accessible Transportation and Mobility
0	ABE70, Women's Issues in Transportation
0	ABE80, Native American Transportation Issues
0	ABE90, Transportation in the Developing Countries
0	ABG00, Research and Education Section
0	ABG10, Conduct of Research
0	ABG20, Transportation Education and Training
0	ABG30, Technology Transfer
0	ABG40, Library and Information Science for Transportation
0	ABG50, Transportation History
0	ABJ001), Data and Information Systems Research Subcommittee
0	ABJ002), Metadata subcommittee
0	ABJ10, National Transportation Data Requirements and Programs
13	ABJ20, Statewide Transportation Data and Information Systems
0	ABJ25T, Task Force on the Traffic Monitoring Conferences
0	ABJ30, Urban Transportation Data and Information Systems
6	ABJ35, Highway Traffic Monitoring
0	ABJ40, Travel Survey Methods
0	ABJ50, Information Systems and Technology
0	ABJ60, Geographic Information Science and Applications
0	ABJ70, Artificial Intelligence and Advanced Computing Applications
0	ABJ80, Statistical Methodology and Statistical Computer Software in Transportation Research
0	ABJ90, Freight Transportation Data
0	ABJ95, Visualization in Transportation
0	AD000, Planning and Environment Group

0	ADA00, Transportation System Policy, Planning and Process Section
0	ADA10, Statewide Multimodal Transportation Planning
0	ADA20, Metropolitan Policy, Planning, and Processes
3	ADA30, Transportation Planning for Small and Medium-Sized Communities
0	ADA40, Public Lands
0	ADA40T, National Parks and Public Lands
0	ADA50, Transportation Programming, Planning, and Systems Evaluation
0	ADA60, Public Involvement in Transportation
0	ADA60, Public Involvement in Transportation
0	ADB00, Travel Analysis Methods Section
0	ADB10, Traveler Behavior and Values
0	ADB20, Telecommunications and Travel Behavior
0	ADB30, Transportation Network Modeling
0	ADB40, Transportation Demand Forecasting
0	ADB50, Transportation Planning Applications
0	ADB60T, Task Force on Moving Activity-Based Approaches to Practice
0	ADC00, Environment and Energy Section
6	ADC10, Environmental Analysis in Transportation
0	ADC20, Transportation and Air Quality
3	ADC30, Ecology and Transportation
0	ADC30T, Task Force on Ecology and Transportation
0	ADC40, Transportation-Related Noise and Vibration
1	ADC50, Historic and Archeological Preservation in Transportation
0	ADC60, Waste Management and Resource Efficiency in Transportation
0	ADC70, Transportation Energy
0	ADC75, Transportation Energy and Alternative Fuels
0	ADC80, Alternative Transportation Fuels
0	ADD00, Social, Economic, and Cultural Issues Section
0	ADD10, Transportation and Economic Development
0	ADD20, Social and Economic Factors of Transportation
0	ADD30, Transportation and Land Development
0	ADD40, Transportation and Sustainability
5	ADD50, Environmental Justice in Transportation
0	AF000, Design and Construction Group
0	AF010T, Task Force on Design-Build
0	AF020T, Task Force on Roadway Pavement Preservation
0	AFB00, Design Section
22	AFB10, Geometric Design
6	AFB20, Roadside Safety Design
2	AFB30, Low-Volume Roads
12	AFB40, Landscape and Environmental Design
5	AFB50T, Task Force on Context Sensitive Design/Solutions CSD/CSS)
1	AFB60, Hydrology, Hydraulics and Water Quality
6	AFB70, Utilities

0	AFB80, Geospatial Data Acquisition Technologies in Design and Construction
0	AFB99B, Committee for the 9th International Conference on Low-Volume Roads
0	AFD00, Pavement Management Section
2	AFD10, Pavement Management Systems
0	AFD20, Pavement Monitoring, Evaluation and Data Storage
0	AFD30, Highway Traffic Monitoring
2	AFD40, Full-Scale and Accelerated Pavement Testing
0	AFD50, Rigid Pavement Design
0	AFD60, Flexible Pavement Design
3	AFD70, Pavement Rehabilitation
2	AFD80, Strength and Deformation Characteristics of Pavement Sections
1	AFD90, Surface Properties - Vehicle Interaction
0	AFF00, Structures Section
3	AFF10, General Structures
8	AFF20, Steel Bridges
9	AFF30, Concrete Bridges
2	AFF40, Dynamics and Field Testing of Bridges
1	AFF50, Seismic Design and Performance of Bridges
3	AFF60, Tunnels and Underground Structures
8	AFF70, Culverts and Hydraulic Structures
4	AFF80, Structural Fiber Reinforced Polymers
19	AFH10, Construction Management
11	AFH20, Management of Quality Assurance
5	AFH30, Emerging Technology for Design and Construction
0	AFH35T, Task Force on Accelerating Innovation in the Highway Industry
5	AFH40, Construction of Bridges and Structures
2	AFH50, Portland Cement Concrete Pavement Construction
0	AFH60, Flexible Pavement Construction and Rehabilitation
7	AFH70, Fabrication and Inspection of Metal Structures
0	AFH80, Disadvantaged Business Enterprises (DBE)
4	AFK10, General Issues in Asphalt Technology
10	AFK20, Characteristics of Bituminous Materials
8	AFK30, Characteristics of Nonbituminous Components of Bituminous Paving Mixtures
10	AFK40, Characteristics of Bituminous-Aggregate Combinations To Meet Surface Requirements
5	AFK50, Characteristics of Bituminous Paving Mixtures to Meet Structural Requirements
9	AFN10, Basic Research and Emerging Technologies Related to Concrete
0	AFN15T, Task Force on Nanotechnology-Based Concrete Materials
2	AFN20, Properties of Concrete
2	AFN30, Durability of Concrete
5	AFN40, Concrete Materials and Placement Techniques

0	AFP00, Geology and Properties of Earth Materials Section
5	AFP10, Engineering Geology
0	AFP15T, Task Force on Rockfall Evaluation and Control
5	AFP20, Exploration and Classification of Earth Materials
3	AFP30, Soil and Rock Properties
2	AFP40, Physicochemical and Biological Processes in Soils
2	AFP50, Frost Action
2	AFP60, Engineering Behavior of Unsaturated Soils
10	AFP70, Mineral Aggregates
0	AFS00, Soil Mechanics Section
4	AFS10, Transportation Earthworks
5	AFS20, Soils and Rock Instrumentation
3	AFS30, Foundations of Bridges and Other Structures
5	AFS40, Subsurface Soil-Structure Interaction
2	AFS50, Modeling Techniques in Geomechanics
9	AFS60, Subsurface Drainage
5	AFS70, Geosynthetics
4	AFS80, Cementitious Stabilization
2	AFS90, Chemical and Mechanical Stabilization
0	AH000, Operations and Maintenance Group
0	AH010T, Task Force on Surface Transportation Weather
0	AHB00, Operations Section
0	AHB10, Regional Transportation Systems Management and Operations
0	AHB15, Intelligent Transportation Systems
0	AHB20, Freeway Operations
0	AHB25, Traffic Signal Systems
4	AHB30, Vehicle-Highway Automation
0	AHB35, High-Occupancy Vehicle Systems
12	AHB40, Highway Capacity and Quality of Service
0	AHB45, Traffic Flow Theory and Characteristics
0	AHB50, Traffic Control Devices
0	AHB55, Work Zone Traffic Control
3	AHB60, Highway/Rail Grade Crossings
19	AHB65, Operational Effects of Geometrics
6	AHB70, Access Management
3	AHD10, Maintenance and Operations Management
0	AHD15, Maintenance and Operations Personnel
0	AHD20, Pavement Maintenance
2	AHD25, Sealants and Fillers for Joints and Cracks
2	AHD30, Structures Maintenance
5	AHD35, Bridge Management
0	AHD40, Polymer Concretes, Adhesives, and Sealers
2	AHD45, Corrosion
1	AHD50, Roadside Maintenance Operations
0	AHD55, Signing and Marking Materials

6	AHD60, Maintenance Equipment
3	AHD65, Winter Maintenance
0	AL000, Legal Resources Group
0	AL010, Transportation Law
0	AL020, Transit and Intermodal Transportation Law
0	AL030, Contract Law
0	AL040, Emerging Technology Law
0	AL050, Environmental Issues in Transportation Law
0	AL060, Eminent Domain and Land Use
0	AL070, Tort Liability and Risk Management
0	AN000, System Users Group
0	ANB10, Transportation Safety Management
0	ANB20, Safety Data, Analysis and Evaluation
0	ANB23T, Task Force on Highway Safety Workforce Development
0	ANB25T, Task Force on the Development of the Highway Safety Manual
0	ANB30, Operator Education and Regulation
0	ANB40, Traffic Law Enforcement
0	ANB45, Occupant Protection
0	ANB50, Alcohol, Other Drugs, and Transportation
0	ANB60, Safe Mobility of Older Persons
0	ANB70, Truck and Bus Safety
0	ANB75T, Task Force on Roundabouts
0	AND10, Vehicle User Characteristics
0	AND20, User Information Systems
0	AND30, Simulation and Measurement of Vehicle and Operator Performance
0	AND40, Visibility
2	ANF10, Pedestrians
0	ANF20, Bicycle Transportation
0	ANF30, Motorcycles and Mopeds
0	AP000, Public Transportation Group
0	AP010, Transit Management and Performance
0	AP015, Transit Capacity and Quality of Service
2	AP020, New Public Transportation Systems and Technology
0	AP0252), Public Transportation Planning and Development Research Needs
0	AP025, Public Transportation Planning and Development
0	AP030, Public Transportation Marketing and Fare Policy
1	AP035, Transit Fleet Maintenance
0	AP040, Major Activity Center Circulation Systems
0	AP045, Intermodal Transfer Facilities
0	AP050, Bus Transit Systems
0	AP055, Rural Public and Intercity Bus Transportation
0	AP060, Paratransit
0	AP065, Rail Transit Systems
0	AP070, Commuter Rail Transportation

0	AP0753), Light Rail Transit Research Needs
0	AP075, Light Rail Transit
0	AP080, Rail Transit System Design
0	AP085, Ferry Transportation
0	AR000, Rail Group
0	AR010, Intercity Rail Passenger Systems
0	AR0201), Railroad Environmental Research Issues
0	AR0202), Speed Guided Intercity Passenger
0	AR020, Guided Intercity Passenger Transportation
0	AR030, Railroad Operating Technologies
0	AR040, Local and Regional Rail Freight Transport
0	AR050, Railroad Track Structure System Design
0	AR060, Railway Maintenance
10	AR070T, Task Force on Railroad Operational Safety
0	AT000, Freight Systems Group
0	AT010, Freight Transportation Economics and Regulation
0	AT015, Freight Transportation Planning and Logistics
0	AT016T, Task Force on Innovations in Freight Transportation Modeling
0	AT020, International Trade and Transportation
0	AT025, Urban Freight Transportation
0	AT030, Agricultural Transportation
0	AT035, Military Transportation
0	AT040, Transportation of Hazardous Materials
0	AT045, Intermodal Freight Transport
0	AT050, Intermodal Freight Terminal Design and Operations
0	AT055, Motor Vehicle Size and Weight
0	AT060, Trucking Industry Research
0	AV000, Aviation Group
0	AV010, Intergovernmental Relations in Aviation
1	AV020, Aviation System Planning
6	AV030, Environmental Impacts of Aviation
0	AV040, Aviation Economics and Forecasting
1	AV050, Airport Terminals and Ground Access
0	AV060, Airfield and Airspace Capacity and Delay
0	AV070, Aircraft/Airport Compatibility
0	AV080, Light Commercial and General Aviation
0	AV090T, Task Force on Aviation Security and Emergency Management
0	AW000, Marine Group
0	AW010, Ports and Channels
0	AW020, Inland Water Transportation
0	AW030, Marine Environment