On behalf of the Transportation Research Board (TRB) Executive Committee, we are pleased to welcome you to the TRB 97th Annual Meeting in Washington, D.C. This meeting, which attracts thousands of transportation professionals each year, offers an unparalleled opportunity to share knowledge and perspectives with your colleagues and to learn about the latest developments in transportation research, policy, and practice. More than 5,000 presentations will address topics of interest to policy makers, administrators, practitioners, and researchers from government, industry, and academic institutions.

The five-day program features nearly 800 sessions and workshops on all aspects of transportation, including many on this year’s spotlight theme, “Transportation: Moving the Economy of the Future.” More than 150 sessions and workshops also address TRB’s hot topics of transformational technologies, transportation and public health, and resilience and sustainability.

The lectures, poster sessions, and workshops—together with committee meetings and exhibits—offer you a variety of opportunities for information sharing and interaction.

New this year: On Sunday from 10:00 a.m. to 2:00 p.m., TRB presents the Careers in Motion Networking Fair, which will provide an opportunity for you to meet directly with prospective employers from a wide range of sectors and modes. In addition, the fair will include presentations by hiring managers, who will offer helpful career information and advice.

Other noteworthy events include Sunday’s New Attendee Orientation—TRB Bootcamp, Monday’s Thomas B. Deen Distinguished Lecture and Presentation of Awards, and Wednesday’s TRB Chairman’s Luncheon.

Please join us for the opening of the exhibit hall on Sunday and enjoy light refreshments while visiting more than 200 exhibitors. The exhibits are open Sunday through Tuesday, showcasing the products and services of TRB sponsors and participating organizations. While there, stop by the TRB booth (#771) to find a variety of helpful publications, information, and resources.

Volunteers from TRB’s 200+ standing technical committees have assembled this timely, informative, and wide-ranging meeting program. The continuing support that TRB receives from its volunteers, its year-round sponsors and affiliates, and its Annual Meeting patrons and exhibitors helps make this event and other TRB programs possible.

We are delighted that you are participating and hope that you enjoy exploring all that the TRB Annual Meeting and the Washington, D.C., area have to offer.

Malcolm Dougherty
Chair, Executive Committee

Neil J. Pedersen
Executive Director
The National Academy of Sciences was established in 1863 by an Act of Congress, signed by President Lincoln, as a private, nongovernmental institution to advise the nation on issues related to science and technology. Members are elected by their peers for outstanding contributions to research. Dr. Marcia McNutt is president.

The National Academy of Engineering was established in 1964 under the charter of the National Academy of Sciences to bring the practices of engineering to advising the nation. Members are elected by their peers for extraordinary contributions to engineering. Dr. C. D. Mote, Jr., is president.

The National Academy of Medicine (formerly the Institute of Medicine) was established in 1970 under the charter of the National Academy of Sciences to advise the nation on medical and health issues. Members are elected by their peers for distinguished contributions to medicine and health. Dr. Victor J. Dzau is president.

The three Academies work together as the National Academies of Sciences, Engineering, and Medicine to provide independent, objective analysis and advice to the nation and conduct other activities to solve complex problems and inform public policy decisions. The Academies also encourage education and research, recognize outstanding contributions to knowledge, and increase public understanding in matters of science, engineering, and medicine.

Learn more about the National Academies of Sciences, Engineering, and Medicine at www.nationalacademies.org.

The Transportation Research Board is one of seven major programs of the National Academies of Sciences, Engineering, and Medicine. The mission of the Transportation Research Board is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. The Board’s varied committees, task forces, and panels annually engage about 7,000 engineers, scientists, and other transportation researchers and practitioners from the public and private sectors and academia, all of whom contribute their expertise in the public interest. The program is supported by state transportation departments, federal agencies including the component administrations of the U.S. Department of Transportation, and other organizations and individuals interested in the development of transportation www.TRB.org

Transportation Research Board 2017 Executive Committee*

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Director, California Department of Transportation, Sacramento

Vice Chair
Katherine F. Turnbull
Executive Associate Director and Research Scientist, Texas A&M Transportation Institute, College Station

Executive Director
Neil J. Pederson
Transportation Research Board

Victoria A. Arroyo
Executive Director, Georgetown Climate Center; Assistant Dean, Centers and Institutes; and Professor and Director, Environmental Law Program, Georgetown University Law Center, Washington, D.C.

Scott E. Bennett
Director, Arkansas State Highway and Transportation Department, Little Rock

Jennifer Cohan
Secretary, Delaware Department of Transportation, Dover

James M. Critts
James M. Critts, LLC (Past Chair, 2016)

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Executive Director-CEO, Jacksonville Transportation Authority, Jacksonville, Florida

A. Stewart Fotheringham
Professor of Geographical Sciences and Urban Planning, Arizona State University, Tempe

John S. Halikowski
Director, Arizona Department of Transportation, Phoenix

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Hamerschlag Professor of Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania

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Managing Director, Power, Energy, and Infrastructure Group, BMO Capital Markets Corporation, New York

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Jeffrey T. Ashby
President, American Traffic Engineering Society, Oak Ridge, Tennessee

Geraldine Knatz
Professor, Sol Price School of Public Policy, Viterbi School of Engineering, University of Southern California, Los Angeles

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Executive Director, Mississippi Department of Transportation, Jackson

Patrick K. McKenna
Director, Missouri Department of Transportation, Jefferson City

James P. Redeker
Commissioner, Connecticut Department of Transportation, Newington

Mark L. Rosenberg
Executive Director, The Task Force for Global Health, Decatur, Georgia

Daniel Sperling
Professor of Civil Engineering and Environmental Science and Policy, Director, Institute of Transportation Studies, University of California, Davis (Past Chair, 2013)

Gary G. Thomas
President and Executive Director, Dallas Area Rapid Transit, Dallas, Texas

Pat Thomas
Senior Vice President of State Government Affairs, United Parcel Service, Washington, D.C. (Retired)

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Distinguished Professor and Dean Emeritus, College of Engineering, University of Miami, Coral Gables, Florida

Dean H. Wise
Consultant, Dean Wise LLC, Winchester, Massachusetts

Charles A. Zelle
Commissioner, Minnesota Department of Transportation, Saint Paul

Michael Berube
Deputy Assistant Secretary for Transportation, U.S. Department of Energy (ex officio)

Mary R. Brooks
Professor Emerita, Dalhousie University, Halifax, Nova Scotia, Canada, and Chair, TRB Marine Board (ex officio)

Mark H. Busby
(Rear Admiral, U.S. Navy), Executive Director, Maritime Administration, U.S. Department of Transportation (ex officio)

Steven Clift
Deputy Executive Officer, California Air Resources Board, Sacramento (ex officio)

Howard R. Elliott
Administrator, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation (ex officio)

Audrey Farley
Executive Director, Office of the Assistant Secretary for Research and Technology, U.S. Department of Transportation (ex officio)

Cathy F. Gautreaux
Deputy Administrator, Federal Motor Carrier Safety Administration, U.S. Department of Transportation (ex officio)

LeRoy Gish
Chief, Division of Transportation, Bureau of Indian Affairs, U.S. Department of the Interior, Washington, D.C. (ex officio)

John T. Gray II
Senior Vice President, Policy and Economics, Association of American Railroads, Washington, D.C. (ex officio)

Heath Hall
Deputy Administrator, Federal Railroad Administration, U.S. Department of Transportation (ex officio)

Brandye Hendrickson
Deputy Administrator, Federal Highway Administration, U.S. Department of Transportation (ex officio)

Michael P. Huerta
Administrator, Federal Aviation Administration, U.S. Department of Transportation (ex officio)

Heidi King
Acting Administrator, National Highway Traffic Safety Administration, U.S. Department of Transportation (ex officio)

Bevan B. Kirley
Research Associate, University of North Carolina Highway Safety Research Center, Chapel Hill, and Chair, TRB Young Members Council (ex officio)

Wayne Nastri
Acting Executive Officer, South Coast Air Quality Management District, Diamond Bar, California (ex officio)

Craig A. Rutland
U.S. Air Force Pavement Engineer, U.S. Air Force Civil Engineer Center, Tyndall Air Force Base, Florida (ex officio)

Todd T. Semonite
(Lieutenant General, U.S. Army), Chief of Engineers and Commanding General, U.S. Army Corps of Engineers, Washington, D.C. (ex officio)

Karl Simon
Director, Transportation and Climate Division, U.S. Environmental Protection Agency (ex officio)

Paul P. Skoutelas
President and CEO, American Public Transportation Association, Washington, D.C. (effective January 8, 2018) (ex officio)

K. Jane Williams
Executive Director, Federal Transit Administration, U.S. Department of Transportation (ex officio)

Frederick G. (Bud) Wright
Executive Director, American Association of State Highway and Transportation Officials, Washington, D.C. (ex officio)

Paul F. Zukunft
(Admiral, U.S. Coast Guard), Commandant, U.S. Coast Guard, U.S. Department of Homeland Security (ex officio)

*Membership as of December 2017.
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General Information

Registration

Convention Center, Level 2, L Street Bridge
(Saturday–Wednesday)
Convention Center, Level 1, Grand Lobby (Thursday)

Registration hours:
Saturday 3:00 p.m.–7:00 p.m.
Sunday 7:00 a.m.–7:00 p.m.
Monday 7:00 a.m.–6:00 p.m.
Tuesday 7:00 a.m.–6:00 p.m.
Wednesday 7:00 a.m.–4:30 p.m.
Thursday 7:00 a.m.–11:00 a.m.

Registration is required for all attendees.

The registration fee includes admission to workshops (except to the Human Factors workshops), lectern sessions, poster sessions, and exhibits, as well as access to TRB Annual Meeting Online, which provides the papers of meeting presenters. Additional fees and tickets are required for the Human Factors workshops and for the Chairman’s Luncheon, which have limits on attendance. Tickets cannot be replaced if lost.

Admission to the sessions and exhibits is by registration badge only. For security reasons, each meeting attendee must wear a registration badge and the badge must be unobstructed—for example, not obstructed by business cards. People without badges may be escorted from the building.

The phone number for the TRB Registration Desk is 202-249-4004. This number is in operation only during the registration times listed above. Please note that TRB staff members are not able to page registrants or deliver messages.

Wi-Fi

TRB has arranged for complimentary Wi-Fi Internet access in all meeting rooms and public areas of the Convention Center and the Marriott Marquis.

However, the capacity is not unlimited. Attendees are asked not to use Wi-Fi for streaming videos or audio, video conferencing, or other uses that would require high-level bandwidths.

Please use the appropriate network and password below to log into the Wi-Fi for the building in which you are located:

Convention Center
Network name: TRB Convention Center
Password: Annual2018
Marriott Marquis
Network name: TRB Marriott
Password: Annual2018

Social Media

Twitter
Share your onsite experiences with other attendees via the TRB Annual Meeting hashtag (#TRBAM). Also follow TRB on Twitter (@NASEMTRB).

Facebook
Post comments about the meeting on TRB’s Facebook page. Also, use the #TRBAM hashtag in your own posts about the TRB Annual Meeting.

Linkedin
Connect with TRB on LinkedIn.

Mobile App

View the listings of sessions and events, navigate interactive floor plans, and create a personalized itinerary with reminders. To download the app, go to the App Store or Google Play and search for “TRB 2018.” When you run the app for the first time, you will be asked to enter your email address and you should enter the same address to which your Annual Meeting registration confirmation was sent. Note: The app supports the following operating systems: iOS 8 to 11.0.1 on iPhone/iPad or OS 4.4 (Kit Kat) to 8.0 (Oreo) on Android. For more information, see page 11.

Interactive Program

Go to www.TRB.org/AnnualMeeting and click the link for “Interactive Program.” You can view the entire program (excluding event room locations) without logging in. Or log in with your MyTRB account and you can see the room locations and build your own personal itinerary. You can also sync information from your personal itinerary in the Interactive Program with your personal itinerary in the mobile app. For more information, see page 11.

TRB Annual Meeting Online

Your meeting registration provides year-round access to TRB Annual Meeting Online, which includes the following information resources:

- Free online access to more than 2,750 papers from the 2018 TRB Annual Meeting (available in January);
- Visual Aid Presentations from more than 3,000 lectern sessions and poster presentations from the 2018 meeting (available in March); and
- Archives of Papers and Visual Aid Presentations from the 2013 to 2017 Annual Meetings.

To log into TRB Annual Meeting Online, go to http://AMOnline.TRB.org, and click “Login.” When prompted, enter the same email address that you used when registering for the Annual Meeting. For the password, enter the six-digit ID number that appears on your Annual Meeting registration badge.

Exhibits

Convention Center, Level 2, Hall D
Come and see a variety of transportation-related products and services showcased by commercial organizations and TRB Sponsors. For exhibitor listings and a floor plan, see pages 118–147.

Exhibit hours:
Sunday 4:00 p.m.–7:00 p.m. (Opening and Reception)
Monday 9:00 a.m.–4:00 p.m.
Tuesday 9:00 a.m.–4:00 p.m.

Career Fair

Convention Center, Level 2, Hall E
TRB invites you to participate in the first Careers in Motion Networking Fair on Sunday from 10:00 a.m. to 2:00 p.m.

The fair provides an opportunity for transportation professionals to meet directly with prospective employers from a wide range of sectors and modes. It also includes presentations on networking, resume development, and interviewing basics; talks by transportation leaders; a resume critique table; and a networking area.

All Annual Meeting registrants are welcome to attend, whether they are recent graduates, seasoned executives, or at any other level in their careers. There is no additional charge for participation. See pages 115–117 for more information.

Lectern Sessions and Workshops

Nearly 800 sessions and workshops will be presented at the meeting. For a complete list of session and workshop titles, see the “Sessions, Events, and Meetings” section, beginning on page 35. The full description of each session and workshop is available via the mobile app (see page 11). See the Schedule at a Glance on page 33 for the general timetable.
Integrate. Transform. Unify.

Providing transportation data exchange between 125+ agencies.
Spotlight and Hot Topic Sessions

More than 40 sessions and workshops will focus on the spotlight theme for the 2018 Annual Meeting: “Transportation: Moving the Economy of the Future.” In addition, more than 150 sessions and workshops will look at one or more of the following hot topics identified by the TRB Executive Committee:

- Transformational Technologies: New technologies that have the potential to transform transportation as we know it.
- Resilience and Sustainability: How transportation agencies operate and manage systems that are economically stable, equitable to all users, and operated safely and securely during daily and disruptive events.
- Transportation and Public Health: Effects that transportation can have on public health by reducing transportation-related casualties, providing easy access to health care services, mitigating environmental impacts, and reducing the transmission of communicable diseases.

To find sessions on these topics, look for the Spotlight icon and the Hot Topic icon in the “Sessions, Events, and Meetings” section, beginning on page 35.

Poster Sessions

Poster Sessions provide an opportunity to interact with authors in a more personal setting than the conventional lecture. The papers presented in these sessions meet the same review criteria as lectern session presentations. For a complete list of poster sessions, see the “Sessions, Events, and Meetings” section, beginning on page 35. The full description for each poster session—including the titles and locations of individual posters—is available via the mobile app (see page 11). A floor plan of posters appears on page 20. You can enter the poster sessions through the Hall E entrance. Also, whenever exhibits are open, you can enter directly from Hall D.

Continuing Education Credits

Professional Development Hours (PDHs) may be claimed for attending the TRB Annual Meeting. Each hour of participation earns one PDH. Attendees must maintain their own records of attendance and can do so using the form on page 34. At the request of a licensing or a certifying agency, TRB will confirm an individual’s meeting registration; however, TRB is not able to confirm attendance at specific sessions. Please note that, at this time, neither TRB nor the 2018 Annual Meeting is certified with the state licensing boards of Florida and New York.

Certification Maintenance (CM) credits—approved by the American Planning Association (APA) for retaining American Institute of Certified Planners (AICP) certification—are offered for some sessions at the 2018 TRB Annual Meeting. Persons seeking AICP CM credits must record their credits directly with APA. In the Annual Meeting mobile app, tap the “Program” icon on the home screen and then tap “CM Sessions” for a list of sessions approved for CM credits. Also, on the Annual Meeting Interactive Program, you can click the “Features” drop-down menu in the left column, then only check the box for “AICP Certification” to filter just for sessions with approved CM credits.

Committee Meetings

Except for executive sessions, the meetings of TRB committees are open to all registrants. For details, see the “Committee Meetings” section (pages 71–89). Meeting titles and times are also listed in the “Sessions, Events, and Meetings” section, beginning on page 35. Also, you can access the full information regarding meetings via the mobile app (see “Mobile App and Interactive Program” on page 11).

New Attendee Orientation–TRB Bootcamp

Sunday, 2:30 p.m.–4:00 p.m.
Convention Center, Level 3, Ballroom AB
Attend and learn about the many opportunities available through engagement in TRB. Get tips on navigating the Annual Meeting and making the most of your time during the week. Learn about the value of continued participation through TRB technical committees. Understand the available tools, resources, programs, and extensive research capabilities available to transportation professionals through TRB. The session includes a networking segment to introduce you to the committee leadership in your area of interest—a first step in your journey to establishing lifelong professional networks through TRB.

Newsroom

Convention Center, Level 3, Room 304
The Newsroom is open only to media registrants, and only during the following hours:

- Sunday 8:00 a.m.–5:00 p.m.
- Monday 8:00 a.m.–5:00 p.m.
- Tuesday 8:00 a.m.–5:00 p.m.
- Wednesday 8:00 a.m.–5:00 p.m.
- Thursday 8:00 a.m.–11:00 a.m.

Media registrants may visit the newsroom to collect information about TRB programs and projects. Light refreshments are provided. Wi-Fi access is available from this room if you bring your own devices. The newsroom will not be secure—you are responsible for securing personal belongings while at the Annual Meeting.

Speaker Ready Room

Convention Center, Street Level, Salon F
The speaker ready room is open only to session speakers and poster presenters. The room provides them with the opportunity to upload their latest presentations online (if they have not previously done so) for availability to attendees. For lectern sessions, the uploaded presentations also will be ready to display when the speaker arrives in the session room. Hours are as follows:

- Saturday 3:00 p.m.–7:00 p.m.
- Sunday 7:00 a.m.–6:00 p.m.
- Monday 7:00 a.m.–6:00 p.m.
- Tuesday 7:00 a.m.–6:00 p.m.
- Wednesday 7:00 a.m.–4:30 p.m.
- Thursday Closed

Use of Smart Phones

TRB encourages the use of smart phones and tablets in sessions and workshops for note taking, tweeting, and other activities. However, we request that you be courteous by silencing your phone and not interfering with the experience of other attendees.

Lost and Found

Any lost-and-found items should be brought to the Convention Center’s Information Desk in the Grand Lobby. (Please do not bring lost items to the TRB registration desk.)

No Smoking

The use of tobacco products is strictly prohibited. District of Columbia law prohibits smoking at all functions and events and in the public areas of the Convention Center and hotels. Thank you for not smoking at TRB events.
Move Brilliantly.

As a revolution in technology, economics, and behavior reshapes how we move across the built environment, Aimsun software helps thousands of international users model tomorrow’s smart mobility networks, today.

Join the movement at aimsun.com
First Aid and Emergencies
In an emergency:
- **Convention Center**, call 202-249-3333 (or house phone number 3333)
- **Marriott Marquis**, call 202-824-9667 (or house phone number 59667)

Please use the above numbers (and not 911).

Non-emergency first aid is available in the Convention Center during all event hours. When the exhibits are open, you can go to the First Aid Station in Exhibit Hall D (near booth #703). At other times, call 202-249-3109.

Coat Check
*Convention Center, Street Level, Room 148*

Coat check services are available during the following hours:

- **Sunday**: 7:00 a.m.–11:00 p.m.
- **Monday**: 7:00 a.m.–10:00 p.m.
- **Tuesday**: 7:00 a.m.–10:00 p.m.
- **Wednesday**: 7:00 a.m.–8:00 p.m.
- **Thursday**: Closed

Nursing Mothers Room
TRB is providing a room in the Convention Center for use by nursing mothers. The room contains a refrigerator if needed for temporary milk storage. If you need access to the room, please go to the Information Desk on the L Street Bridge (Level 2) of the Convention Center for details.

Shared Information Table
*Convention Center, Level 2*

TRB provides a shared information table, which may be used only by nonprofit associated groups and only for the purpose of displaying flyers to announce upcoming conferences; no posters are allowed. No other promotional material of any kind is permitted. The table is located along the corridor between the L Street Bridge and the Hall E Entrance.

Venues and Connector Hours
The 2018 TRB Annual Meeting is being held at the following venues:
- **Walter E. Washington Convention Center**
- **Marriott Marquis Washington, D.C.**

The two buildings are across the street from each other and are connected by an underground walkway (“connector”) that links Level M2 of the Marriott Marquis with the Lower Level of the Convention Center. The connector is open as follows:

- **Saturday**: 7:00 a.m.–11:00 p.m.
- **Sunday**: 7:00 a.m.–11:00 p.m.
- **Monday**: 6:00 a.m.–11:00 p.m.
- **Tuesday**: 6:00 a.m.–11:00 p.m.
- **Wednesday**: 6:00 a.m.–10:00 p.m.
- **Thursday**: 6:00 a.m.–5:00 p.m.

Harassment-Free Environment

The National Academies of Sciences, Engineering, and Medicine and the Transportation Research Board are committed to the values of diversity, honesty, civility, and respect for each person as an individual in all of our activities and undertakings. We look to you, as a participant in the TRB Annual Meeting, to be our partner in this effort. You can help us maintain an environment that is free of harassment and intimidation by not committing harassing acts, not tolerating or ignoring those of others, and by avoiding knowingly placing others in situations where they may be harassed. If you feel you have been harassed or are aware of a situation involving the harassment of someone else, please do not hesitate to call 202-286-0661, a special Harassment Report number, during the dates of January 6–15. (In an emergency, you should still call Security—in the Convention Center at 202-249-3333 and in the Marriott Marquis at 202-824-9667—or if elsewhere call 911.)

Plan to Attend Next Year!
Mark your calendar for the TRB 98th Annual Meeting, January 13–17, 2019, in Washington, D.C.

Moving People & Communities Forward
From smart infrastructure to smart cities, we’re helping our clients push open the doors to what’s possible, every day.

HDR is a proud patron of the 2018 TRB Annual Meeting.

hdrinc.com
Didi Chuxing is the world’s leading mobile transportation platform. We are committed to working with communities and partners to solve the world’s transportation, environmental and employment challenges by using big data-driven deep-learning algorithms that optimize resource allocation. By continuously improving user experience and creating social value, we strive to build an open, efficient, collaborative, and sustainable transportation ecosystem.

2022 MISSION: To become a global leader in smart transportation and automotive technology, the world’s largest operator of vehicle networks and a global leader in smart transportation systems.

SERVICES

Didi Chuxing offers a diverse range of transportation services through one mobile app:

- DiDi Premier
- DiDi Express
- DiDi Hitch
- DiDi Taxi
- DiDi Enterprise Solutions
- DiDi Bus
- DiDi Minibus
- DiDi Designated Driving
- DiDi Car Rental
- DiDi Luxe
- Bike-Sharing

TECHNOLOGICAL ADVANTAGES

- Intelligent ride-matching system enables multi-person carpooling within and across cities
- Real-time traffic mapping and route optimization
- DiDi supports cities in efficient and sustainable transportation planning with big data-based transportation capacity

OUR GROWTH

- +440 million passengers
- >25 million rides completed per day
- > 17.50 million job opportunities provided
- ~7,000 employees (~ 50% engineers & data scientists)

OUR VERTICALS

Taxi: 1.68 million drivers; partnering with over 200 taxi companies
Private Car: DiDi Premier and DiDi Express cover 400+ cities with an ExpressPool option
Hitch (Social Ridesharing): 2.23 million daily rides at the peak
Designated Driving: in over 200 cities
Enterprise Solutions: 170,000+ corporate clients
Car Rental: in over 1,500 cities across over 100 countries
Uber China: in over 400 cities

MILESTONES

Didi Dache and Kuaidi Dache were founded in 2012 as taxi-hailing apps and later developed private-car hailing business.


As of January 2017, DiDi has built investment and technology partnerships with five leading rideshare companies of the world, including Lyft, Grab, Ola, Uber, and 99.

As the world’s leading mobile transportation platform, DiDi is well capitalized by world-class strategic and financial investors, including Tencent, Alibaba and Apple.
Onsite Food Outlets

**Convention Center**

The Convention Center offers a variety of outlets from which you can purchase food and beverages. Look for these icons on the Convention Center floor plans (pages 16–17).

**Downtown Food District**
Lower Level, near the connection to Marriott Marquis
Serving a wide range of international and American cuisine.
Sunday–Wednesday 11:00 a.m.–3:00 p.m.

**Uptown Food District**
Level 2, next to TRB registration
Serving American fare, including hamburgers, wings, southern style BBQ, pizza, sandwiches, salads, and hot and cold breakfasts. (Hours for some food options may vary.)
Sunday 7:00 a.m.–5:00 p.m.
Monday–Tuesday 7:00 a.m.–7:00 p.m.
Wednesday 7:00 a.m.–5:00 p.m.

**Hall E Food Zone**
Exhibit Hall E
Serving a wide range of international and American cuisine.
Sunday 10:00 a.m.–2:00 p.m.
Monday–Tuesday 8:00 a.m.–5:30 p.m.
Wednesday 8:00 a.m.–1:30 p.m.

**Networking Zone 1**
Exhibit Hall D; Networking Zone 1
Grab & Go Café, serving coffee, tea, and light fare.
Monday–Tuesday, 9:00 a.m.–4:00 p.m.

**Coffee Outlets**
Three outlets serving coffee, tea, and light fare:
- Compass Coffee (in Grand Lobby)
- Coffee Cart (outside Salon B)
- Coffee Counter (in L Street North Lobby)
Sunday–Wednesday 7:00 a.m.–3:00 p.m.
Thursday 7:00 a.m.–1:00 p.m.

**Marriott Marquis**

The Marriott Marquis offers a variety of outlets from which you can purchase food and beverages. Look for these icons on the Marriott Marquis floor plans (pages 21–25).

**Anthem**
Lobby Level; serving American fare; open for breakfast and lunch daily, 6:30 a.m.–2:00 p.m.

**The Dignitary**
Lobby Level; bar serving light fare; open daily, 5:00 p.m.–midnight

**High Velocity**
Lobby Level; sports bar serving American fare; open for lunch and dinner daily, 11:00 a.m.–1:00 a.m.

**Lobby Bar**
Lobby Level; serving light fare; open daily, 4:00 p.m.–midnight

**Starbucks**
Lobby Level; open for breakfast and lunch daily, 6:00 a.m.–6:00 p.m.

**Grab-N-Go Cart**
Lobby Level; serving soft drinks, pastries, and sandwiches, open daily, 7:00 a.m.–9:00 p.m.

**Coffee Cart**
Level M4; serving coffee, fruit, pastries, and snacks, Monday–Wednesday, 7:00 a.m.–3:00 p.m.

**Arroz**
Lobby Level; serving contemporary flavors of Southern Spain and Morocco
Monday–Thursday 11:30 a.m.–2:30 p.m. and 5:30 p.m.–10:00 p.m.
Friday 11:30 a.m.–2:30 p.m. and 5:00 p.m.–11:00 p.m.
Saturday 11:00 a.m.–2:30 p.m. and 5:00 p.m.–11:00 p.m.
Sunday 11:00 a.m.–2:30 p.m. and 5:00 p.m.–10:00 p.m.
Use the Mobile App!

- Get full session details: The app provides more detailed information than what appears in this program, including descriptions, individual presentation titles, and speaker names for all lectern sessions, poster sessions, and workshops.
- See where you're going: Click on the room name for any event or on the booth number for any exhibitor and you'll see exactly where it is on the floor plan.
- Find what you're looking for: Use the app's powerful search feature to locate any event, exhibitor, or presenter instantly by keyword.
- Build your personalized itinerary: Look up any event and add it to your personal schedule.

To download the mobile app, go to the App Store or Google Play and search for “TRB 2018.” When you run the app for the first time, you will be asked to enter your email address and you should enter the same address to which your Annual Meeting registration confirmation was sent. The app supports the following operating systems: iPhone/iPad iOS 8 to 11; Android OS 5 (Lollipop) to 8.0 (Oreo); and Kindle Fire 6th and 7th generation.

Note: You can sync information from your personal itinerary in the mobile app with your personal itinerary in the online Interactive Program. See the instructions below.

Use the Interactive Program

Go to www.TRB.org/AnnualMeeting and click the link for “Interactive Program.” You can view the entire program (excluding event room locations) without logging in. Or log in with your MyTRB account and you can see room locations and build your own personal itinerary. (If you have not used MyTRB before, click the “set your password” link on the Interactive Program home page and then enter the email address that you used when registering for the meeting.)

Note: You can sync information from your personal itinerary in the Interactive Program with your personal itinerary in the mobile app. See the instructions below.

How to Sync Personal Itineraries

You can sync your personal itinerary in the online Interactive Program with your personal itinerary in the mobile app. Step-by-step instructions are below. Note that you need only complete these steps once for each device:

- Run the mobile app.
- If this is the first time you are running the app, you will first have to unlock the app with the email address that you used when registering for the meeting. After you unlock the app, you will see a screen that provides an opportunity to sign in with your MyTRB account to sync the app with the online Interactive Program. Just tap “Sign in Now” to get started. (If you'd rather sync later, tap “skip” to start using the app.)
- If you don’t sync the first time you run the app, you can do so later by tapping the “My Meeting” icon on the home page, then tapping “Connect to Sync My Meeting,” then tapping “Sign in with TRB,” then tapping “Continue to Sign In Page.”
- Enter your MyTRB email address and password, and then tap “Log In.”
- You will see a screen with the words “Interactive Program” at the top and a message asking you to grant permission for the app to access your TRB Interactive Program Itinerary. Tap “Yes” to continue and initiate the sync.
- If you have not previously used the MyTRB account to sync itineraries, you will receive a message to “Confirm Your Email,” and an email will be sent to you with the subject line “Your Eureka Account Registration.” Open the email, and tap “Confirm Email Address.” Then return to the mobile app and tap “Continue.” (The system will skip this step if you previously have used the MyTRB account to sync itineraries.)
- Note that the sync may take a few seconds to complete and you may need to refresh the screen by returning to the home page and then tapping “My Meeting.”
- Your mobile app itinerary is now synced with your Interactive Program itinerary. To view it, tap the “My Meeting” icon on the home page and then tap “My Program” and then use the sliding menu at the top to select the date and time period that you want to view. If you had one event in one itinerary and a different event in the other itinerary, both events will now appear in both itineraries. The itineraries will remain synced as long as the app is running on your device and has access to the Internet. Any changes to one will be reflected almost immediately in the other.
- If you have more than one mobile device, you can sync your itineraries across devices by following the steps above for each device.
- Tap the home icon to return to the home page and continue using the mobile app.
- If you need any help, contact MyTRB (open during registration hours) at MyTRB@nas.edu or at 202-334-1738. You also can visit one of the TRB Information Desks, which are located on the L Street Bridge (level 2 of the Convention Center) and on the M1 level of the Marriott Marquis.
As a global network of professionals working with clients and communities, we develop and implement solutions to the country’s most complex transportation challenges. We turn ideas into reality that unlock opportunities, connect people and economies with roads, bridges, and transit systems, while protecting our environment and improving people’s lives.

Imagine it. Delivered.
Imagine it. Delivered.

As a global network of professionals working with clients and communities, we develop and implement solutions to the country’s most complex transportation challenges.

We turn ideas into reality that unlock opportunities, connect people and economies with roads, bridges, and transit systems, while protecting our environment and improving people’s lives.

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**SAVE THE DATE**

T2019 August 18-21, 2019

22nd International Council on Alcohol, Drugs and Traffic Safety (ICADTS) Conference

Edmonton, Alberta, Canada t2019.org
Transportation @ Maryland

With leading experts in engineering, planning, policy, public health, business, information, social, and behavioral sciences, and more, the University of Maryland is advancing solutions in:

- Transportation big data and data analytics
- Connected and automated vehicles
- Infrastructure sciences and policy
- Next generation freight and logistics systems
- Smart cities and communities
- Future mobility systems

Learn more at our TRB reception January 8 at 5:30-7:30 p.m. in Shaw & LeDroit Park, Marriott.

Keeping people and goods on the move

As planners and engineers, we’re excited to solve challenges: tunnels to dig, tracks to lay, roads and bridges to build, airports and seaports to modernize.

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Since 1958, Troxler Electronic Laboratories, Inc. has been the worldwide leader in precision quality control and measurement equipment and instrumentation for the highway and construction industries. We are dedicated to providing premier service, maintenance, and training for all our products through our international sales and support offices in the United States, Canada, China, and Germany and over forty distributors around the world.

Come see what all the buzz is about at Booth 417.
New Edition of a Transportation Classic!

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HCM6 incorporates the latest research on highway capacity and quality of service, including active traffic and demand management and travel time reliability.

For more information, visit [www.trb.org/hcm6](http://www.trb.org/hcm6)—or purchase at [https://www.mytrb.org/Store/Product.aspx?ID=8313](https://www.mytrb.org/Store/Product.aspx?ID=8313)
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Diversity and inclusion drives innovation, teamwork and success. Consider joining our team as an intern, employee or business partner.

For more information, visit our website at www.paturnpike.com
Marriott Marquis Floor Plans (Continued)
THE FUTURE OF MOBILITY IS NOT A BLACK BOX

Discover smart solutions for the mobility of tomorrow at booth #401.

www.ptvgroup.com/mobilitynext
Imagine a city where people change seamlessly between multiple modes of transportation, from cycling to walking, and using shared cars and rail based transport. But how do you make it seamless? This is where we come in. We specialize in solutions that help optimizing transport networks and transforming cities to make them more livable. Technology is a force that is intertwined with the evolution of urban environments and it is leading cities to more dynamic transportation systems. Our MaaS Accelerator Program allows you to create a balanced ecosystem of new mobility services and public transport.

Our components to accelerate Mobility-as-a-Service come in four stages:

**PTV MAAS MODELLER**
Calculate KPIs to create an effective business model for MaaS-Fleets within any city infrastructure

**PTV MAAS SIMULATOR**
Provide detailed visual of mobility scenarios, taking into account autonomous vehicles, pedestrians, bicycles, and public transport

**PTV MAAS OPERATOR**
Operate a multimodal MaaS-Fleet in real-time, optimizing the trips and capacity of vehicles related to the infrastructure and traffic data of the city

**PTV MAAS CONTROLLER**
Integrate all of the components to build an overall city operating system including real-time control of connected transport and traffic prediction

So while we’re paving the way to smarter cities, it all starts with you. How?
Join us at www.ptvgroup.com/mobilitynext
The TRB Minority Student Fellows Program is intended to promote minority participation in transportation and in TRB. Now in its ninth year, the program provides funding for minority students from select historically black colleges and universities and Hispanic-serving institutions to attend and present research papers at the TRB Annual Meeting. Each participating institution can select graduate or undergraduate students who are studying a transportation-related curriculum to participate in the program. The institutions also designate faculty members to oversee the work of each student and to accompany the students to the Annual Meeting.

Fourteen schools are participating in the 2017–2018 program:

- California State Polytechnic University, Pomona;
- California State University, Long Beach;
- California State University, Los Angeles;
- City College of New York, New York City;
- Florida International University, Miami;
- Jackson State University, Jackson, Mississippi;
- Morgan State University, Baltimore, Maryland;
- North Carolina A&T State University, Greensboro;
- Prairie View A&M University, Prairie View, Texas;
- Tennessee State University, Nashville;
- Texas Southern University, Houston;
- The University of Texas at El Paso;
- The University of Texas Rio Grande Valley; and
- University of New Mexico, Albuquerque.

In addition to support from TRB, funding for this year’s program was provided by:

- North Central Texas Council of Governments;
- Stantec, Inc.;
- Texas A&M University;
- The University of Texas at Austin;
- U.S. Federal Highway Administration; and
- generous donations from Annual Meeting registrants.

The contributing organizations that targeted their support to a participating school are as follows: North Central Texas Council of Governments is supporting Texas Southern University; Texas A&M University is supporting Prairie View A&M University; and The University of Texas at Austin is supporting University of Texas Rio Grande Valley.

The 2017–2018 recipients of the TRB Minority Student Fellowships are listed below and on the following pages.

### TRB Minority Student Fellows, 2017–2018

**Amber Bryant** is a senior at Tennessee State University where she is majoring in civil engineering with an emphasis on traffic studies. Her paper is titled “Crash Modification Factors for Median Cable Barriers in Tennessee” (Session 575, Poster A161). Deo Chimba is her faculty mentor.

**Diana Cabrera** is a master’s student in civil engineering at The University of Texas at El Paso. Her paper focuses on “Monitoring Rate of Corrosion of Backfill Materials with Time for Mechanically Stabilized Walls” (Lectern Session 486). Soheil Nazarian is her faculty mentor.

**Karayan Cole** is a senior at Jackson State University where she is majoring in civil engineering. The title of her paper is “Advanced Immersing Bio-inspired Treatment to Stabilize Sandy Soil” (Session 321, Poster A102). Lin Li is her faculty mentor.

**Jennifer Cortina** is a master’s student at The University of Texas Rio Grande Valley where she is majoring in civil engineering. Her paper is titled “Methods Used for Determining the Contract Time of Highway Projects” (Session 315, Poster A160). Aaron Greenwood is her faculty mentor.

**Hector Cruz** is a senior in civil engineering with a specialty in transportation infrastructure at California State University, Los Angeles. His paper is titled “Traffic Incident Prediction Using Wavelet Based Feature Extraction and Artificial Neural Networks” (Session 834, Poster A181). Mehran Mazari is his faculty mentor.

**Dewayne Danner** is a senior at Tennessee State University where he is majoring in civil engineering with an emphasis on transportation planning. His paper is titled “Microsimulation of University Campus Evacuation Challenges: A Case Study” (Session 862, Poster B370). Deo Chimba is his faculty mentor.

**Melissa Escalante** is a master’s student in civil engineering at The University of Texas at El Paso. Her paper focuses on “Assessment of Reproducibility of Defect Detectability of High-Frequency Seismic Methods” (Session 247, Poster A142). Soheil Nazarian is her faculty mentor.

**Jaclyn Garcia** is a master’s student in urban and regional planning at California State Polytechnic University, Pomona, with a special interest in transportation planning and policy. Her paper is titled “Program Design Evaluation of Safe Streets for Seniors Programs” (Session 437, Poster A154). Richard Willson is her faculty mentor.
Minority Student Fellows (continued)

Monica Gonzalez is a junior at Florida International University where she is majoring in civil engineering. Her paper is titled “Prioritizing Locations for Installing Street Lights: A Case Study on the City of Doral” (Session 710, Poster B360). Priyanka Alluri is her faculty mentor.

Arndreya Howard is a master’s student in environmental engineering at Prairie View A&M University. Her research paper is titled “Emission Analysis of Renewable Diesel and Ethanol-Diesel for Freight Trucks” (Session 366, Poster B352). Raghava Kommalapati is her faculty mentor.

Rachel Ibrahim-Watkins is a junior at California State University, Los Angeles, who is majoring in civil engineering. Her paper is titled “Evaluating the Performance of Transportation Infrastructures During Extreme Weather Events” (Session 638, Poster A127). Mehran Mazari is her faculty mentor.

Liliana Iniguez is a senior at California State University, Long Beach, who is majoring in civil engineering with an emphasis on traffic studies. Her paper is titled “Investigating Impact of Crowdsourcing on Mode-Shift Behavior of College Students” (Session 835, Poster A107). Shailesh Chandra is her faculty mentor.

Ayanna Lynn is a master’s student in civil engineering at Jackson State University. Her paper is called “Characteristics and Factor Analysis of Vehicle Crashes in Mississippi” (Session 454, Poster A207). Lin Li is her faculty mentor.

Stephen Montano is a senior at the University of New Mexico where he is majoring in civil engineering. “Evaluating the Role Federal Transportation Funding Flexibility and Investments in Bicycle and Pedestrian Infrastructure” is the title of his paper (Session 709, Poster B361). Gregory Rowangould is his faculty mentor.

Luisa Morales is a senior who is majoring in civil engineering at The University of Texas at El Paso. The focus of her research paper is “Simulation of Corrosion of Galvanized Steel Under Accelerated Conditions” (Lectern Session 549). Arturo Bronson is her faculty mentor.

Tiana Norris is a senior at Morgan State University where she is majoring in transportation systems. Her paper focuses on “An Analysis of Food Accessibility Using the USDA Food Acquisition and Purchase Survey” (Session 713, Poster B485). Celeste Chavis is her faculty mentor.

(continued on page 30)
Ruben Ortega is a senior at North Carolina A&T State University where he is studying civil engineering with an emphasis on applied engineering technology. He is presenting his paper, "Applicability of Using a Bio-Modifier as Fog-Sealant for Asphalt Against Ultra Violet Aging" at the Pavement Preservation Committee Meeting. Mahour Parast is his faculty mentor.

Handy Phyall is a master’s student at Morgan State University and is majoring in transportation systems. His paper focuses on “A Spatial-Temporal Analysis of Baltimore Bikeshare Ridership” (Session 396, Poster A186). Celeste Chavis is his faculty mentor.

Jermaine Potts is a master's student in transportation planning and management at Texas Southern University. His paper is titled “Social Parameters as a Component of Transit Network Analysis: Examining Public Transit in Minority and Low-Income Areas Without Service” (Session 657, Poster B420). Gwendolyn Goodwin is his faculty mentor.

Jose Salas is a senior at City College of New York where he is majoring in civil engineering. His paper is titled “Food Deliveries to Residential Buildings in New York City: An Assessment of Delivery Characteristics” (Session 255, Poster B420). Alison Conway is his faculty mentor.

Alexis Walton is a senior at Tennessee State University where she is majoring in civil engineering. Her paper is titled “Correlating Access Management Features to Pedestrian Crashes” (Session 452, Poster A274). Deo Chimba is her faculty mentor.

Jose Salas
Ruben Ortega
Handy Phyall
Jermaine Potts
Alexis Walton

HNTB understands the life cycle of infrastructure and addresses clients’ most complex technical, financial and operational challenges. Our professionals deliver a full range of infrastructure-related services, including award-winning planning, design, program and construction management.
Our planners, engineers, and consultants deliver urban mobility, transit, and highway infrastructure projects that shape a better world. From initial assessment to implementation and construction, our understanding of the technical, financial, and political considerations that underlie transport planning decisions helps our clients realize their goals.

Arup has delivered the Fulton Center and Second Avenue Subway in New York City and the Transbay Transit Center in San Francisco — transformative projects that redefine regional transportation systems.

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Professional Development Hours Credit Statement for Attendee’s Records

TRB 97th Annual Meeting, January 7–11, 2018

Many licensure and certification agencies require the demonstration of continuing professional competency. Your attendance at this meeting entitles you to earn Professional Development Hour (PDH) units. This form is for your use in maintaining a record of the PDH units you have earned at this meeting. The hours shown are based on guidance published by the National Council of Examiners for Engineering and Surveying (NCEES). Complete this form and retain it for your records. Do not return it to TRB. We recommend that you save the entire Final Program for your records in case the licensure or certification agency requests information. Reporting is done on an honor basis, and individuals are responsible for maintaining their own records.

The table below shows the PDHs that I have earned for the continuing-education activities included in the 97th Annual Meeting of the Transportation Research Board, held in Washington, D.C., January 7–11, 2018.

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I am author of the following paper(s) that were presented at the 2018 TRB Annual Meeting.

5 or 10

I have served for the past year on the following TRB Standing Committees and Task Forces:

2.00

Name __________________________ Date ____________

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1 Presenters in workshops should multiply the number of hours by 2, but only if presenting for the first time and only if presenter is not full-time faculty.

2 Appointed members only. Credits are not earned until the end of each year of service is completed.

3 Five PDHs are earned for a paper that’s presented at the 2018 TRB Annual Meeting, but not published in the Transportation Research Record (TRR). This may be increased to ten PDHs earned if the paper is presented at the meeting and published in the TRR.
## Sessions and Events

### 9:00 a.m.–noon

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<tr>
<td>102</td>
<td>Having the Data Is Not Enough: Communicating Information to Support Evidence-Based Decision Making, CC 143A</td>
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<td>103</td>
<td>Identifying Knowledge Assets: A Case Approach, CC 152A</td>
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<td>104</td>
<td>Shifting Gears to Accelerate Change Management, CC 151B</td>
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<tr>
<td>105</td>
<td>Implementing Transportation Asset Management Through Interagency Cooperation: Defining and Supporting the Role of MPOs, CC 150B</td>
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<td>Smart Cities, Public Transportation, and Seamless Modal Transfers in Developing Countries, CC 154</td>
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<td>Fresh Air from Future Freight Transportation: Smart, Sustainable, and Sensible, CC 145A</td>
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<td>Hands-on Tools for Assessing Travel Demand, Energy, and Environmental Impacts of Emerging Mobility Technologies, CC 146A</td>
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<td>Corrosion-Resistant Prestressing Strands of Carbon Fiber–Reinforced Polymer and Stainless Steel in Highway Structures, CC 209C</td>
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<td>Innovative Uses of Precast Concrete to Rehabilitate Rigid and Flexible Pavements, CC 202B</td>
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<td>Doctoral Student Research in Innovative Asphalt Performance Testing, CC 204B</td>
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<td>Balanced Asphalt Mixture Design: Implementation Efforts and Success Stories, CC 206</td>
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<td>Performance-Engineered Mixtures: Concrete Specifications for Solutions to Meet Requirements, Part 1 (Part 2, Session 169), CC 207A</td>
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<td>In Case You Missed It: Research and Best Practices for Service Interchange Designs, CC 102B</td>
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<td>Resilience, Safety, and Security of Bridges and Tunnels: U.S. and International Topics, CC 207B</td>
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<td>135</td>
<td>Bicycle Safety Across the Pillars of the UN’s Decade of Action for Road Safety, CC 102A</td>
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<td>Roadway Design and Operation: Using Human Factors to Guide Data-Driven Decision Making, CC 103B</td>
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<td>Fitness to Drive: The Role of Driving Simulators, CC Salon A</td>
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<td>Curbed Enthusiasm: Multimodal Planning, Operations, Enforcement, and Design to Optimize Curb Resources, CC Salon B</td>
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<td>U.S. DOT’s Mobility on Demand Initiative: Moving the Economy with Innovation and Understanding, Part 1 (Part 2, Session 185), CC 150A</td>
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<td>American Recovery and Reinvestment Act and High-Speed Rail: What Has Been Accomplished?, CC 143C</td>
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<td>141</td>
<td>Understanding and Managing the Complex World of Wheel–Rail Interaction, Part 1 (Part 2, Session 186), CC 144B</td>
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<td>143</td>
<td>Risk-Based Aviation Analysis and Decision Making for Aviation Safety and Accident Investigation, CC 144C</td>
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### 144A When Autonomous Vehicles and People Meet: Planning for Pedestrian–Autonomous Vehicle Interaction (HF-A Ticket Required) |          |
| 144B    | Righting the Wrong-Way Driver: Generating Mitigation Measures for Wrong-Way Freeway Collisions (HF-B Ticket Required) |          |
| 144C    | Is There a Relationship Between Safe Driving and Older Drivers’ Medical Conditions and Health Status? (HF-C Ticket Required) |          |
| 144D    | Neurocognition and Transportation Operations: Attentional State and Operator Behavior (HF-D Ticket Required) |          |
| 144E    | Speech Interfaces in Vehicles: Can We Talk Our Way Out of Distraction? (HF-E Ticket Required) |          |
| 144F    | Safety Reporting Data Versus Accident Data and How Best to Use Them for Prevention (HF-F Ticket Required) |          |
| 144G    | Consumer Acceptance of Advanced Driver Assistance Systems and Highly Automated Vehicles (HF-G Ticket Required) |          |

### 9:00 a.m.–5:00 p.m.

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<td>144G</td>
<td>Consumer Acceptance of Advanced Driver Assistance Systems and Highly Automated Vehicles (HF-G Ticket Required)</td>
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**SUN**

35
10:00 a.m.–2:00 p.m.

Careers in Motion Networking Fair, CC Hall E

1:30 p.m.–4:30 p.m.

145 Decarbonizing Transportation for a Sustainable Future: Mitigating Impacts of the Changing Climate, CC 149
146 War Games Come to TRB: May the Best Plan for Connecting Technology and Policy Win, CC 150B
147 Making the Right Investment Decisions at the Right Time: Performance-Driven Decisions, CC 145 A
148 Disruptive Technologies: Impacts on Transportation Revenues, CC 143A
149 Mind the Gap: Can Inclusive Cities Bridge Social Equity Disparities?, CC 151A
150 Timely Consideration of Tribal Concerns in Transportation Project Development and Beyond, CC 152B
151 Unlocking the Hidden Value of Data, CC 146C
152 State and Local Safety Data Integration, CC 154
153 Big Data Applications and Methods in Transportation, CC 151B
154 Cybersecurity in the Transportation World: People, Process, and Technology, CC 152A
155 Freight Planning and Data Forum: Tailoring Highway Traffic Monitoring Data to Serve the Needs of Freight Planners, CC 143B
156 2020–2025 Resilience Research Road Map, CC 147B
157 Public Engagement for Crisis Situations: Weaving Your Network with Existing Tools and Solid Relationships, CC 140A
158 Virtual and Augmented Reality for Travel Behavior Analysis, CC 156
159 Successful Near-Urban Redevelopment Strategies for Improving Environment and Transportation, CC 140B
160 Geodesign for Planning a Regional Network of Alternative Fuel Stations, CC 146A
161 Reducing Highway Worker Exposure and Maximizing Return on Investment for Worker Safety Strategies, CC 202A
162 Dowel Placement Evaluation and Tolerance, CC 209C
163 Next-Generation Pavement Management Systems: Incorporating Network-Level Structural Capacity Leading Indicators, CC 204C
164 Bridging the Gap Between Non-Destructive Evaluation and Structural Health Monitoring, CC 206
165 Static and Seismic Design of Piles for Downdrag, CC 207B
166 Pain Points in the Use of Big Data Analytics for Transportation Project Delivery, CC 208
167 Quality Management Systems for Design-Build Projects: Case Studies, CC 202B
168 Compaction Is Easy If You Know How to Do It, CC 201
169 Performance-Engineered Mixtures: Concrete Specifications for Solutions to Meet Requirements, Part 2 (Part 1, Session 125), CC 207A

170 Managing Highway Rock Slope Scaling: Design and Construction State of the Practice, CC 209A
171 Geoenvironmental Aspects of Design, Permitting, and Construction of Transportation Infrastructure, CC 204B
172 Integrating Geotechnical Instrumentation and Modeling to Optimize Performance of Transportation Infrastructure, CC 204A
173 Best Practices for Pavement Design Using Geosynthetics, CC 209B
174 Real-Time Decision Support Requirements for Next-Generation Traffic Management Systems and Centers, CC Salon A
175 Managed Lanes: Driving Tomorrow’s Regional Economic and Mobility Goals, CC Salon B
176 Data Collection, Experiments, and Instrumentation in Connected Multimodal Transportation Systems, CC 101
177 Cross Streets at Freeway Interchanges: Access Management and Geometric Design Issues, CC 102B
178 Pavement Maintenance, CC 203
179 Emergency Response: Saving Responders and Victims Together, CC 103B
180 Marijuana and Driving, CC 103A
181 Equity Issues in Pedestrian Safety and Accessibility, CC Salon C
182 The Future of Motorcycling, CC 102A
183 Transit Asset Management: Where Are We, Where Do We Want to Go, and How Do We Get There?, CC 144A
184 Achieving Safety and Security in Today’s Resource-Constrained Environment, CC 143C
185 U.S. DOT’s Mobility on Demand Initiative: Moving the Economy with Innovation and Understanding, Part 2 (Part 1, Session 139), CC 150A
186 Understanding and Managing the Complex World of Wheel–Rail Interaction, Part 2 (Part 1, Session 141), CC 144B
187 SHRP 2 Workshop on Behavior-Based Freight Models: Part 2, Applications (Part 1, Session 110), CC 147A
188 Research Success: How to Create a Freight Research Community That Learns from Failure, CC 145B
189 Growth in Small Launchers in the Commercial Space Industry, CC 144C

1:30 p.m.–5:00 p.m.

190 Doctoral Research in Transport Modeling, CC 146B

2:30 p.m.–4:00 p.m.

New Attendee Orientation—TRB Bootcamp: Start Your Journey Here!, CC Ballroom AB

4:00 p.m.–7:00 p.m.

Exhibit Hall Opening Reception, CC Hall D

5:30 p.m.–6:30 p.m.

Networking Reception for Committee Communication Coordinators and Committee Research Coordinators, MM University of DC (M1)
### Meetings

#### 8:00 a.m.–9:15 a.m.
- Traffic Signal Systems Research Subcommittee, AHB25(2), MM Liberty N (M4)

#### 8:00 a.m.–noon
- Technical Activities Council (by invitation), MM Cherry Blossom (Mezz)
- HCQS Group 2—Uninterrupted Flow Group Subcommittee, AHB40(2.0), MM Monument (M4)
- HCQS Group 3—Interrupted Flow Group Subcommittee, AHB40(3.0), MM Supreme Court (M4)

#### 8:00 a.m.–5:00 p.m.
- Symposium on ACRP Research in Progress, MM Capitol (M4)

#### 9:00 a.m.–5:00 p.m.
- Planning for the Conference on Small and Medium-Sized Communities Subcommittee, ADA30(1), MM Independence B (M4)

#### 9:30 a.m.–10:45 a.m.
- Simulation of Traffic Signal Systems Subcommittee, AHB25(3), MM Liberty N (M4)

#### 11:00 a.m.–12:15 p.m.
- Traffic Signal Systems Technology and Standards Subcommittee, AHB25(4), MM Liberty N (M4)

#### Noon–1:30 p.m.
- Transportation Policy Section Executive Board (by invitation), MM Gallery Place (M3)
- Resilience and Sustainability Task Force, E0003T (by invitation), MM Scarlet Oak (Mezz)

### Sunday, January 7 (Continued)

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<td><strong>After the Hurricanes, CC 147A</strong></td>
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<td>7:00 p.m.–8:30 p.m.</td>
<td><strong>International Participants Welcome Reception</strong> (sponsored by Transurban and T.Y. Lin International Engineering), CC Ballroom South Pre-Function A</td>
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<td>9:00 p.m.–10:30 p.m.</td>
<td><strong>Young Professionals Reception</strong> (sponsored by Lyft and Stantec), CC Ballroom South Pre-Function C</td>
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<td>5:30 p.m.–7:30 p.m.</td>
<td><strong>Technical Activities Council/Section Chairs’ Lunch</strong> (by invitation), MM Magnolia (Mezz)</td>
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<td>1:00 p.m.–5:00 p.m.</td>
<td><strong>HCQS Group 1—Administration</strong>, AHB40(1.0), MM Monument (M4)</td>
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<td>1:00 p.m.–5:00 p.m.</td>
<td><strong>HCQS Group 4—Cross Cutting Issues</strong>, AHB40(4.0), MM Supreme Court (M4)</td>
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<td>1:30 p.m.–3:00 p.m.</td>
<td><strong>Freeway Simulation Subcommittee</strong>, AHB20(2), MM Marquis Ballroom Salon 1 (M2)</td>
<td><strong>AHB20</strong></td>
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<td>1:30 p.m.–4:30 p.m.</td>
<td><strong>Committee Research Coordinator</strong> (CRC) Meeting, MM Union Station (M3)</td>
<td><strong>ABG00</strong></td>
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<td>2:00 p.m.–3:00 p.m.</td>
<td><strong>Asset Management for Traffic Signal Systems Subcommittee</strong>, AHB25(6), MM Liberty N (M4)</td>
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<td>2:00 p.m.–3:00 p.m.</td>
<td><strong>Freeway Management Handbook Subcommittee</strong>, AHB20(1), MM Marquis Ballroom Salon 1 (M2)</td>
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<td>3:15 p.m.–4:15 p.m.</td>
<td><strong>Multimodal Traffic Signal Systems Subcommittee</strong>, AHB25(5), MM Liberty N (M4)</td>
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<td>4:00 p.m.–5:30 p.m.</td>
<td><strong>Design and Construction Group Younger Members Subcommittee</strong>, AF000(2), MM Cherry Blossom (Mezz)</td>
<td><strong>AF000</strong></td>
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<td>4:30 p.m.–5:30 p.m.</td>
<td><strong>Traffic Signal Systems Education Subcommittee</strong>, AHB25(7), MM Liberty N (M4)</td>
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<td>5:00 p.m.–6:30 p.m.</td>
<td><strong>Freeway Operations Research Subcommittee</strong>, AHB20(3), MM Marquis Ballroom Salon 1 (M2)</td>
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<td>5:30 p.m.–7:00 p.m.</td>
<td><strong>Design and Construction Group Leadership Reception</strong> (by invitation), MM Marquis Ballroom Salon 6 (M2)</td>
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### Sessions, Events, and Meetings: Sunday, January 7 (Continued)

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<td>Transportation System Policy, Planning, and Process Section Executive Board (by invitation), MM Farragut North (M3)</td>
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<td>Joint Meeting of the Freight Systems and Marine Group Executive Boards (by invitation), MM Capitol Hill (M3)</td>
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<td>Young Members Council—Freight Systems and Marine Group Subcommittee, AT000(1), MM Union Station (M3)</td>
<td>AT000, AW000</td>
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<tr>
<td>6:00 p.m.–8:00 p.m.</td>
<td>Operations and Preservation and Safety and System Users Groups Leadership Reception (by invitation), MM Independence C (M4)</td>
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<tr>
<td>6:00 p.m.–9:00 p.m.</td>
<td>Data and Information Systems Section Executive Board (by invitation), MM Gallery Place (M3)</td>
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<td>5:30 p.m.–8:00 p.m.</td>
<td>Freeway Operations Committee Planning and Meetings Subcommittee, AHB20(4), MM Marquis Ballroom Salon 1 (M2)</td>
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<td>7:00 p.m.–9:00 p.m.</td>
<td>Safety and System Users Sections Executive Boards (by invitation), MM George Washington University (M1)</td>
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<td>7:30 p.m.–10:00 p.m.</td>
<td>Rockfall Management Subcommittee, AFP10(1), MM Marquis Ballroom Salon 10 (M2)</td>
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<td>Unbound Granular Materials Subcommittee, AFP70(1), MM Dogwood (Mezz)</td>
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<td>8:00 p.m.–9:00 p.m.</td>
<td>Emerging Freeway Operations Concepts Subcommittee, AHB20(6), MM Marquis Ballroom Salon 1 (M2)</td>
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### Rockfall: Characterization and Control

On many major transportation routes, the degradation of rock exposures constructed 30 to 40 years ago has increased rockfall-induced traffic disruptions, accidents, and injuries.

Demands for improved rockfall evaluation and mitigation have encouraged adoption of new technologies to support new approaches to provide protections from rockfall hazards.

To make comprehensive information about these technologies and approaches widely available, the Transportation Research Board (TRB) has published *Rockfall: Characterization and Control* to address rockfall hazard identification and evaluation, investigation, mitigation, and maintenance and management.

The 658-page book comprises 18 chapters authored by internationally recognized rockfall experts. An accompanying DVD features instructive video clips—including historic footage—documenting rockfall field tests.

The text is written to appeal to a diverse audience, including transportation engineers responsible for rockfall investigations, students, and researchers who need a definitive resource on rockfall investigation and mitigation.

Order your copy today at [www.TRB.org/Rockfall](http://www.TRB.org/Rockfall)

- Paperback, ISBN 978-0-309-22312-6, $100

For more information, send an e-mail to TRBSales@nas.edu or visit TRB’s online bookstore, [http://books.trbbookstore.org/](http://books.trbbookstore.org/).
Sessions, Events, and Meetings: Monday, January 8

Sessions and Events

8:00 a.m.–9:45 a.m.

Lectern Sessions and Events

192 The Value of SHRP 2 Implementation: State DOT and FHWA Perspective, CC Ballroom B
193 Transport Research and International Cooperation Prospects in East Asia: China, Japan, and Korea, CC 152A
194 Selecting Your Sector, CC Salon C
195 Application of Economic Analysis in Emerging Transportation Systems, CC 146C
196 International Insights on Congestion Pricing, CC 151B
197 If You Price It, Will They Come?, CC 150B
198 Traffic Management and Safety in China and Kenya, CC 103A
199 Transportation Regulation Versus Deregulation: Is This Discussion Ever Really Over?, CC 152B
200 Applications and Characteristics of Probe-Based Travel Time Data, CC 151A
201 Applications in Unmanned Aerial Systems to Help with Infrastructure Inspection, CC 154
203 Mobility of the Future, CC 146B
204 Traffic Equilibrium, Traffic Control, and Network Design, CC 156
205 Evolving Environmental Analysis: Use of Technological Tools to Efficiently Evaluate Environmental Impacts of Future Transportation Infrastructure, CC 140A
206 Electric Vehicles: Infrastructure Economics and Planning, CC 146A
207 Inequalities and Automobile Ownership, CC 140B
208 Managing Highway Stormwater Runoff, CC 204A
209 Unlocking the Power of Data in Pavement Management Systems, CC 202A
211 Innovations in Connections and Retrofitting Strategies for Accelerated Bridge Construction, CC 204C
212 Fatigue, Fracture, and Redundancy of Steel Bridges, CC 208
213 Computational and Optimization Methods in Culvert Design, CC 209B
214 Partnering in Practice: You Are Nothing Without Me and You Know It, CC 206
215 Trends in Asphalt Binders: Production, Specifications, and Application, CC 201
216 Moisture Damage in Asphalt Pavements: Forensic Analyses and Research Needs, CC 203
217 Innovations in Properties of Concrete, CC 204B
218 Expansion of the Use of the Cone Penetration Test by U.S. Highway Agencies, CC 209A
219 Advances in Cementitious Soil Stabilization, CC 209C
220 Use of Reliability as a Measure for Effectiveness of Transportation Systems Management and Operations: How Is It Going?, CC Salon A

221 Macroscopic Modeling for Traffic Estimation and Control, CC 101
222 Safety at Highway–Rail Grade Crossings, CC 149
223 Design Considerations and Outcomes of Access Management, CC 102A
224 Avoiding the False Claim Minefield, CC 207B
225 Automated Driving Speed Dating, CC Ballroom C
226 Rural Road Safety Research: Practical Applications, CC 102B
227 Addressing Road Safety Worldwide: Thoughts on Vulnerable Road Users, Human Factors, and Road Safety for Low and MiddleIncome Countries, CC 143C
228 Innovative Methods Applied to Young Driver Research—Hybrid Session, CC Salon B
229 Traffic Law Enforcement Research: Patrol Operations, Intervention Strategies, and Spatial Relationships of Data, CC 103B
230 Critical Safety Initiatives, Federal Transit Administration, U.S. DOT (FTA), CC 143B
231 Shared Mobility: Equity, Adoption, and Tools for Management, CC 147A
232 Train Energy Efficiency: Optimal Operating Strategies, CC 143A
233 Redevelopment of Urban Freight Rail Service, CC 147B
234 Railroad Track Substructure and Superstructure Interaction, CC 144A
235 Intermodal Freight Systems in the United States, CC 150A
236 International Perspectives in Airport System Planning for Capital Cities, CC 144C
237 Unmanned Aircraft Systems, CC 145B
238 Clearing the Air Around Ports, CC 144B
265 Metropolitan Policy Considerations for Connected and Autonomous Vehicles, Part 1: Planning and Automation (Part 2, Session 202), CC 145A

Poster Sessions

239 2017 AASHTO Research Advisory Committee Sweet 16 HighValue Research Projects, CC Hall E, Posters A150–A166
240 Understanding Longer-Distance Journeys, CC Hall E, Posters B310–B316
241 Innovations in Travel Survey Methods, CC Hall E, Posters B320–B326, B330–B336
242 Geographic Information Science and Applications, CC Hall E, Posters B300–B307, B317
243 Statistical Methods in Transportation, CC Hall E, Posters B340–B360
244 New Developments in Low-Volume Road Management, CC Hall E, Posters A170–A177
245 New Parameters of Landscape and Roadside Design, CC Hall E, Posters A101–A107
246 Concrete Bridge Topics, Part 3 (Part 1, Session 346; Part 2, Session 413), CC Hall E, Posters A133–A137
247 Testing and Evaluation of Transportation Structures, CC Hall E, Posters A140–A142
248 Management of Quality Assurance, CC Hall E, Posters A123–A127

CC = Convention Center
MM = Marriott Marquis
249 Advances in Cold Recycling with a Case Study on Intelligent Compaction and Thermal Profiling for Hot-Mix Asphalt, CC Hall E, Posters A113–A117
250 Freeway Operations Technical Papers, CC Hall E, Posters A180–A195, A200–A205
251 Innovations in Adaptive Signal Control, CC Hall E, Posters A210–A225
252 Non-Destructive Evaluation and Scour Ranking, CC Hall E, Posters A143–A145
253 Data-Driven Decisions for Bridge Management: Advancements in Inspection and Modeling, CC Hall E, Posters A146–A147
254 Current Research in Freight Planning and Logistics, CC Hall E, Posters B400–B405, B410–B433
258 Trends in Emerging Project Delivery Methods and Techniques, CC Hall E, Posters A110–A112, A120–A122

9:00 a.m.–4:00 p.m.

Exhibits, CC Hall D

10:15 a.m.–noon

Lectern Sessions and Events

202 Metropolitan Policy Considerations for Connected and Autonomous Vehicles, Part 2: MPO Strategies (Part 1, Session 265), CC 145A
257 Learning from Natural Experiments: Gathering the Evidence for Evidence-Based Decisions, CC 151A
258 Moving Toward Management, CC Salon C
259 Rethinking Sustainability for Agencies: It is Much More Than Green Transportation, CC 152A
260 Where to Go with Transportation Taxes? Past Evidence and Future Visions, CC 151B
261 Emerging Perspectives on Priced Managed Lanes, CC 146C
262 50th Anniversary of Federally Mandated Automobile Safety: What are the Implications for Future Innovations in Automobile Design?, CC 152B
263 Emerging Technologies: The Role of Lidar and Unmanned Aerial Systems in Supporting the Transportation Spatial Information Infrastructure, CC 154
264 Research Advances in Statistical and Econometric Methods, CC 150B
265 Let Us Take You for a Ride: Understanding Mobility on Demand, CC 146B
266 Vehicles and Autonomy and Modeling, Oh My!, CC 156
268 Competing Visions of Transportation’s Future, CC 146A
269 The Interstate: Mitigating Past and Current Project Impacts, CC 140A
270 Family Life and Sustainable Transportation Choices, CC 140B
271 Impact of Connected and Automated Vehicles on Transportation Forecasting and Planning, CC 202A
272 Young Practitioner Research in Design and Materials, CC 208
274 Improving Pavement Design Models Using Accelerated Pavement Testing, CC 204C
275 Pavement Structural Modeling and Evaluation, CC 204A
276 Evaluation of Structures Using Non-Destructive Testing, Part 1 (Part 2, Session 414), CC 206
277 Innovative Applications of FRP Composites, Part 1 (Part 2, Session 679), CC 207B
278 What Is Wrong with My Asphalt?, CC 201
279 Asphalt Tack Coat and Bond Strength: Research, Development, Assessment, and Validation, CC 203
280 Unsaturated Expansive Soil Properties and Improvement, CC 209A
281 Effects of Inclement Weather on Driving Behavior and Traffic Operations, CC 209B
282 TSM&O in the Age of On-Demand Mobility, CC Salon A
283 Microscopic Vehicle-Level Modeling, CC 101
284 Quantifying Benefits and Impacts of Access Management, CC 102A
285 Future Maintenance and Operations Workforce: Assessing the Effects of Technology and Demographics, CC 204B
286 P3s and NEPA: Strategies for Addressing Environmental Impact Review in an Era of Streamlining and Potentially Greater Reliance on Private Financing for Transportation Infrastructure, CC 202B
287 Right-of-Way for Project Managers, Part 1: Acquisition and Relocation (Part 2, Session 358), CC 207A
288 Influences on Older Driver Behavior and Safety, CC 103B
289 Factors That Determine Safe and Unsafe Driver Behaviors, CC 103A
290 Bikeshare Users and System Design, CC 102B
291 New Technologies and Methods in Motorcycle Safety—Hybrid Session, CC Salon B
292 Application of Technology to Improve Transit Safety and Security, CC 143C
293 Innovations in Public Transit Service Availability and Accessibility Measurement, CC 147A
294 Commuter Rail: Land Use and Technology, CC 143B
295 Benefits of Intercity Passenger Rail, CC 149
296 Technology to Improve the Effectiveness of Railroad Track Inspection and Maintenance, CC 143A
297 Human Factors Rail Research Topics in Accidents and Derailments, CC 144A
298 E-Commerce May Double the Number of City Truck Trips by 2022: How to Create a Truck Load–Unload Space Network to Efficiently and Safely Deliver Goods, CC 147B
Sessions, Events, and Meetings: Monday, January 8 (Continued)

Poster Sessions

304 Innovations in Transportation Demand Management, CC Hall E, Posters B410–B414, B420–B423
305 From Parking Operations to the Sharing Economy: All Things Parking, CC Hall E, Posters B400–B407, B415–B417
306 New Research on Truck Payload Distribution and Freeway Volume Data Imputation, CC Hall E, Posters B340–B341
307 New Research on Driver Safety and Eco-Driving to Study Vehicle Performance and Crash or Near-Crash Events, CC Hall E, Posters B342–B345
308 Innovations in Urban Data and Mobility Modeling, CC Hall E, Posters B300–B337
309 Innovations in Collecting and Applying Traffic Data, CC Hall E, Posters B370–B372, B380–B397
310 Latest in Bicycle and Pedestrian Data Research, CC Hall E, Posters B350–B354, B360–B365, B373–B375
311 Advanced Highway Design Solutions Using Geospatial Technologies, CC Hall E, Posters A122–A127
312 Pavement Condition Evaluation: Advances in Practice, CC Hall E, Posters A200–A206, A210–A214
314 Pavement Surface Characteristics, CC Hall E, Posters A180–A183, A190–A197, A207
315 Frontier of Transportation Construction Management Research and Practice, CC Hall E, Posters A160–A172
316 Advances in Science and Engineering of Concrete in Transportation, CC Hall E, Posters A130–A141
317 Best Student Papers in Emerging Concrete Technology, CC Hall E, Posters A142–A157
318 Investigation and Design of Geotechnical and Geological Slope and Subsurface Hazards, CC Hall E, Posters A110–A117
320 Design, Testing, and Analysis of Pile Foundations, CC Hall E, Posters A120–A121
321 New Materials and Test Methods for Stabilization of Soils, CC Hall E, Posters A101–A106
322 Data-Driven Analysis of Intersection Operations, CC Hall E, Posters A230–A245
323 Case Studies of Managed Lanes and Congestion Pricing, CC Hall E, Posters A250–A267
324 Analysis of Safety Concerns at Highway–Rail Grade Crossings, CC Hall E, Posters B450–B455
325 Research in International Trade and Shipping, CC Hall E, Posters B430–B431

Lectern Sessions and Events

303 Using Data to Tackle Safety Problems, CC Ballroom B
330 Integration of Low-Density Areas in Larger Metropolitan Regions’ Mobility Plans, CC 152A
331 Climate Change Response: Where Are We Now and What Happens Next?, CC 140B
332 Real-Time CEO Decision Making: Response to War Game Winner’s Pitch, CC 151B
333 Building Our Bridge to the Future Through Knowledge Management, CC 101
334 You Measure What? A Look at the Next Generation of Performance Measures, CC 154
335 Creating a Culture of Innovation, CC 152B
336 The 2017 National Household Travel Survey: What’s in It and What Users Can Expect, CC 151A
337 Transportation Agency Data Governance and Open Data Efforts, CC 150B
338 Planning for the Economy of the Future, CC 145A
339 Methodological Advances in Travel Behavior Analysis, CC 156
340 Toward Sustainable and Resilient Transportation Networks, CC 146B
341 Toward Zero Emissions by 2050: The Role of Transportation Technology, CC 146A
342 What’s Hot in State DOTs, CC 140A
343 Additional New Developments in Low-Volume Road Management, CC 209C
344 Accelerated Pavement Testing Advancements in Pavement Design, CC 204C
345 Pavement Friction and Rolling Resistance, CC 202B
346 Concrete Bridge Topics, Part 1 (Part 2, Session 413; Part 3, Session 246), CC 208
347 Commercially Useful Function: Transportation Industry Practices in a New Age, CC 209B
348 Asphalt Pavement Warranties: North American Perspectives, CC 201
349 Long-Term Pavement Performance Program, CC 209A
350 Construction of Mass Concrete Transportation Infrastructure, CC 202A
351 Implementation and Extension of Geotechnical Asset Management Practice, CC 204B
352 Monitoring and Predicting Surface Conditions Using Road Weather Information Systems and Mobile Sensors, CC 207A
Thomas B. Deen Distinguished Lecture and Presentation of Awards

Neil J. Federsen, Transportation Research Board, presiding

Sponsored by Technical Activities Council

Patricia L. Mokhtarian, the Susan G. and Christopher D. Pappas Professor of Civil and Environmental Engineering (CEE) at the Georgia Institute of Technology, is the 2018 recipient of the Thomas B. Deen Distinguished Lectureship.

Dr. Mokhtarian joined the Georgia Institute of Technology in August 2013, after 23 years on the CEE faculty at the University of California, Davis (UCD). At UCD she was the Associate Director for Education of the Institute of Transportation Studies and founding Chair of the interdisciplinary M.S./Ph.D. program in Transportation Technology and Policy, as well as a professor of CEE. While at UCD, she also served as Principal Investigator on a $2.7 million National Science Foundation Integrative Graduate Education and Research Traineeship award. Prior to joining UCD in 1990, she spent nine years in regional planning and consulting in southern California.

The Thomas B. Deen Distinguished Lectureship recognizes the career contributions and achievements of an individual in one of the areas covered by TRB's Technical Activities Division. Originally known as the Transportation Research Board Distinguished Lectureship, the award was renamed in 2002 in honor of the eighth TRB Executive Director who served with distinction from 1980 to 1994. Honorees are invited to present overviews of their technical areas, including the evolution, present status, and prospects for the future. TRB also publishes each lecture in a volume of the Transportation Research Record: Journal of the Transportation Research Board. Dr. Mokhtarian's lecture is titled “The Times They Are A-Changin’: What Do the Expanding Uses of Travel Time Portend for Policy, Planning, and Life?”

Regarding her academic career, Dr. Mokhtarian regularly teaches graduate classes on transportation survey methods and discrete choice modeling, as well as undergraduate probability and statistics, the latter taken by more than 2,000 students during the course of her career. She has been credited with making important and substantial contributions in the areas of transportation planning and policy making, information and communications technologies’ impacts on travel, and human attitudes and perceptions toward travel. She has authored or co-authored more than 200 refereed journal articles, technical reports, and other publications. Dr. Mokhtarian is one of the top five most highly cited scholars in the field of transportation, and accordingly has shaped the nature of discourse in the field for generations to come.

Since 1988, Dr. Mokhtarian has provided continued service to TRB as a chair or a member of six different TRB standing committees or subcommittees. In recognition of her service, she is an Emeritus Member of the Standing Committee on Effects of Information and Communication Technologies on Travel Choices and the Standing Committee on Traveler Behavior and Values.

Dr. Mokhtarian was also a member of the committee that produced TRB Special Report 298: Driving and the Built Environment: The Effects of Compact Development on Motorized Travel, Energy Use, and CO2 Emissions. The report estimates the contributions that changes in residential and mixed-use development patterns and transit investments could make to reducing vehicle miles traveled by 2030, and then also by 2050, and the impact this could have on meeting future transportation-related greenhouse gas reduction goals.

She earned her master’s degree and Ph.D. in Industrial Engineering/Management Science from Northwestern University and her bachelor’s degree in Mathematics (summa cum laude) from Florida State University.

Introduction of Deen Lecturer:
Malcolm Dougherty, Director, California Department of Transportation, and Chair, TRB Executive Committee

Deen Lecture Presentation:
The Times They Are A-Changin’: What Do the Expanding Uses of Travel Time Portend for Policy, Planning, and Life?
Patricia L. Mokhtarian

Presentation of Awards for Outstanding Papers for 2017
Hyun-A Park, President, Spy Pond Partners, LLC, and Chair, Technical Activities Council

- Pyke Johnson Award (planning and environment)
  Exploring Daily Rhythms of Interpersonal Contacts: Time-of-Day Dynamics of Human Interactions with Latent Class Cluster Analysis
  Jae Hyun Lee, Adam Davis, and Konstadinos G. Goulias, University of California, Santa Barbara; Seo Youn Yoon, Korea Research Institute for Human Settlements
  Transportation Research Record: Journal of the Transportation Research Board, No. 2666

- D. Grant Mickle Award (operations and preservation)
  Improving Street Network Efficiency by Dynamically Prohibiting Left Turns at Signalized Intersections
  Anthony J. DePrator, Owen Hitchcock, and Vikash V. Gayah, The Pennsylvania State University
  Transportation Research Record: Journal of the Transportation Research Board, No. 2622

- William W. Millar Award (public transportation)
  Train Overcrowding: Investigating the Use of Better Information Provision to Mitigate the Issues
  John Preston, James Pritchard, and Ben Waterson, University of Southampton, Southampton, United Kingdom
  Transportation Research Record: Journal of the Transportation Research Board, No. 2649
• John C. Vance (legal resources)
  National Cooperative Highway Research Program Legal Research Digest 69: A Look at the Legal Environment for Driverless Vehicles
  Dorothy Glancy and Kyle E Graham, Santa Clara University Law School; Robert W. Peterson, California Department of Transportation

• K. B. Woods Award (design and construction)
  Ethylene Glycol Accelerated Weathering Test: An Improved, Objective Aggregate Durability Test Method
  Petrus G. L. van Blerk, New Zealand Transport Agency; Enrico Fletcher, AECOM New Zealand Ltd.; Seosamh B. Costello and Theuns F. P. Hemming, The University of Auckland, Auckland, New Zealand
  Transportation Research Record: Journal of the Transportation Research Board, No. 2655

• Charley V. Wootan Award (policy and organization)
  Trends Over Two Decades of Transportation Research: A Machine Learning Approach
  Ryan C. Boyer, William T. Scherer, and Michael C. Smith, University of Virginia
  Transportation Research Record: Journal of the Transportation Research Board, No. 2614

Fred Burggraf Award (papers by young researchers)

• On planning and environment:
  Transportation Policy at the Ballot Box
  Kevin Fang and Calvin Thigpen, University of California, Davis
  Transportation Research Record: Journal of the Transportation Research Board, No. 2605

• On freight systems:
  Modeling the Impacts of Free Trade Agreements on Domestic Transportation Gateways, Corridors, and Ports
  Chris Bachman, University of Waterloo, Ontario, Canada
  Transportation Research Record: Journal of the Transportation Research Board, No. 2611

• On public transportation:
  Qualitative Analysis of Ride-Hailing Regulations in Major American Cities
  Rachel Beer, Candace Brakewood, Subrina Rahman, and Jennifer Viscardi, City College of New York
  Transportation Research Record: Journal of the Transportation Research Board, No. 2650

• On operations and preservation:
  Kan Wu, S. Ilgin Guler, and Vikash V. Gayah, The Pennsylvania State University
  Transportation Research Record: Journal of the Transportation Research Board, No. 2622

Presentation of TRB Standing Committee Blue Ribbon Awards

The Technical Activities Council established the Blue Ribbon Awards to recognize exemplary best practices and the associated volunteer efforts in the activities of the technical standing committees. The Blue Ribbon Award committees serve as role models and the committee chairs and members are available to share their experiences with others.

The Technical Activities Council presented the Blue Ribbon Awards on Sunday, January 7, recognizing committees for initiatives in the following areas:

• Community Building and Mentoring
  Logistics of Disaster Response and Business Continuity Committee (Policy and Organization Group, Transportation System Resilience Section), chaired by Anne Strauss-Wieder of the North Jersey Transportation Planning Authority, for utilizing interactive tabletop exercises at the TRB Annual Meeting for educating and communicating with practitioners the current best practices in resilience; and the Traffic Control Devices Committee (Operations and Preservation Group, Operations Section), cochaired by Paul Carlson of Texas A&M Transportation Institute and Timothy Gates of Michigan State University, for the Traffic Control Device Student Challenge as a means to attract the next generation of transportation professionals and to accelerate their careers.

• Advancing Research
  Steel Bridges Committee (Design and Construction Group, Structures Section), chaired by Domenic Coletti of HDR, for effective coordination with industry and the American Association of State Highway and Transportation Officials in the generation and shepherding of focused research needs statements into needed, practical, and high-value research projects; and in the promotion of the immediate implementation and wide dissemination of their results.

• Contributing to TRB and the Transportation Community
  Intermodal Freight Transportation Committee (Freight Systems Group), chaired by Richard Easley of E-Squared Engineering, for working with the freight industry to listen, observe, absorb, and then base research on real-world, day-to-day challenges.
  Honorable Mention: International Cooperation Committee (Technical Activities Council), cochaired by O. A. Elrahman of Rensselaer Polytechnic Institute and George Giannopoulos of the Academy of Athens, for systematically contributing to mainstreaming the international perspective in transportation research within TRB and promoting international collaboration and cooperation in transportation.

• Communications
  Roadside Maintenance Operations Committee (Operations and Preservation Group, Maintenance and Preservation Section), chaired by John Rowen of the New York State Department of Transportation for the Virtual Vegetation Management University (V2MU), and the Technology Transfer Committee (Policy and Organization Group, Research and Education Section), chaired by Patrick Casey of CTC and Associates, LLC, for communications leadership in developing partnerships with academia, the private sector, and public agencies to advance the implementation of research results.
### Meetings

**7:00 a.m.–8:00 a.m.**

- **Policy and Organization Group Executive Board** (by invitation), MM Gallery Place (M3)  
  - AB000

**8:00 a.m.–9:30 a.m.**

- **Freeway Safety and Operations Subcommittee**, AHB65(6), MM Marquis Ballroom Salon 17 (M2)  
  - AHB65

**8:00 a.m.–9:45 a.m.**

- **Management and Productivity Committee**, MM Liberty K (M4)  
  - ABC20
- **Revenue and Finance Research Subcommittee**, ABE10(3), MM Liberty I (M4)  
  - ABE10
- **Travel Time, Speed, and Reliability**, ABJ30(3), Joint Subcommittee of ABJ30, ABJ35, MM Liberty P (M4)  
  - ABJ30
- **Critical Issues in Transportation Planning Subcommittee**, ADA10(3), MM Independence A (M4)  
  - ADA10
- **Route Choice and Spatio-Temporal Behavior**, ADB10(2), Joint Subcommittee of ADB10, ADB30, MM Independence E (M4)  
  - ADB10
- **Travel Forecasting Resources Special Committee**, MM Monument (M4)  
  - ADB45
- **Aviation Noise and Vibration**, ADC40(1), Joint Subcommittee of ADC40, AV030, MM Independence H (M4)  
  - ADC40
  
  **Geometric Design Technical and Research Subcommittee**, AFB10(1), MM Magnolia (Mezz)  
  - AFB10
- **Computer Image Technology for Pavement Evaluation Subcommittee**, AFD20(1), MM Gallaudet University (M1)  
  - AFD20
- **Advances in Landslides, Analysis, and Control Subcommittee**, AFP10(2), MM Dogwood (Mezz)  
  - AFP10
- **Transit and Intermodal Transportation Law Committee**, AL020(2), MM Marquis Ballroom Salon 15 (M2)  
  - AL020
- **Highway Safety Workforce Development Subcommittee**, ANB10(4), MM Marquis Ballroom Salon 7 (M2)  
  - ANB10
- **Future Directions in Safety Analysis**, ANB20(1), Joint Subcommittee of ANB20, ANB25, MM Supreme Court (M4)  
  - ANB20
- **Senior Mobility Options Subcommittee**, ANB60(3), MM Marquis Ballroom Salon 13 (M2)  
  - ANB60
- **Commuter Rail Research Subcommittee**, AP070(2), MM Woodley Park (M3)  
  - AP070

**Climate Change and Energy Task Force**, MM Independence B (M4)  
- **Climate Change and Energy Task Force**, MM Howard University (M1)  
  - ABE10
- **Technology Transfer Committee**, MM Liberty J (M4)  
  - ABG30
- **Statewide Transportation Data and Information Systems Committee**, MM Liberty L (M4)  
  - ABJ20
- **Critical Transportation Infrastructure Protection Committee**, MM Liberty M (M4)  
  - ABR10
- **Transportation Needs of National Parks and Public Lands Committee**, MM Independence D (M4)  
  - ADD10
- **Transportation and Economic Development Committee**, MM Independence C (M4)  
  - ADD10
- **Roadside Safety Design Committee**, MM Georgetown University (M1)  
  - AFB20
- **Design and Rehabilitation of Concrete Pavements Committee**, MM Marquis Ballroom Salon 1 (M2)  
  - AFD50
- **Seismic Design and Performance of Bridges Committee**, MM George Washington University (M1)  
  - AFF50
- **Disadvantaged Business Enterprises Committee**, MM Catholic University (M1)  
  - AFH80
- **Non-Binder Components of Asphalt Mixtures Committee**, MM Marquis Ballroom Salon 4 (M2)  
  - AFK30
- **Durability of Concrete Committee**, MM Silver Linden (Mezz)  
  - AFN30
- **Aggregates Committee**, MM Scarlet Oak (Mezz)  
  - AFB70
- **Intelligent Transportation Systems Committee**, MM Marquis Ballroom Salon 5 (M2)  
  - AFB15
- **Highway Capacity and Quality of Service Committee**, MM Marquis Ballroom Salon 6 (M2)  
  - AFB40
- **Traffic Control Devices Committee**, MM Marquis Ballroom Salon 9 (M2)  
  - ABJ20
- **Pavement Maintenance Committee**, MM University of DC (M1)  
  - AHD20
- **Bridge Preservation Committee**, MM Marquis Ballroom Salon 2 (M2)  
  - AHD37
- **Polymer Concretes, Adhesives, and Sealers Committee**, MM Marquis Ballroom Salon 3 (M2)  
  - AHD40
- **Roadside Maintenance Operations Committee**, MM Cherry Blossom (Mezz)  
  - AHD50
- **Alcohol, Other Drugs, and Transportation Committee**, MM Marquis Ballroom Salon 14 (M2)  
  - ANB50

**CC = Convention Center**  
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Sessions, Events, and Meetings: Monday, January 8 (Continued)

9:30 a.m.–11:00 a.m.

Performance-Based Analysis Subcommittee, AHB65(3), MM Marquis Ballroom Salon 17 (M2)

10:15 a.m.–noon

TRR Review Advisory Board, MM Marquis Ballroom Salon 16 (M2)
A0060T

AASHTO Asset Management Subcommittee Joint Meeting, MM Liberty P (M4)
ABC40

Transportation Economics Committee, MM Liberty K (M4)
ABE20

Tribal Safety Issues Subcommittee, ABE80(1), MM Liberty I (M4)
ABE80

Long Distance and Intercity Travel, ABJ10(1), Joint Subcommittee of ABJ10, ABJ00, ABJ40, MM Liberty O (M4)
ABJ10

Civil Integrated Management (CIM) Subcommittee, ABJ95(1), MM Liberty N (M4)
ABJ95

Statewide Travel Demand Forecasting, ADA10(2), Joint Subcommittee of ADA10, ADB40, MM Monument (M4)
ADA10

Time Use and Activity Patterns Subcommittee, ADB10(1), MM Independence H (M4)
ADB10

Emerging Methods in Demand Forecasting Subcommittee, ADB40(1), MM Independence A (M4)
ADB40

Ecology and Transportation Committee, MM Independence E (M4)
ADC30

Rail Noise and Vibration, ADC40(2), Joint Subcommittee of ADC40, AR055, MM Independence G (M4)
ADC40

Resource Conservation and Recovery Mid-Year Meeting Planning Subcommittee, ADC60(1), MM Independence F (M4)
ADC60

Geometric Design Business Subcommittee, AFB10(2), MM Dogwood (Mezz)
AFB10

Pavement Materials and the Urban Climate Subcommittee, AFD00(2), MM Gallaudet University (M1)
AFD00

Traffic Signal Timing Subcommittee, AHB25(1), MM Marquis Ballroom Salon 10 (M2)
AHB25

Tort Liability and Risk Management Committee, MM Marquis Ballroom Salon 15 (M2)
AL070

Rural Road Safety Policy, Programming, and Implementation, ANB10(7), Joint Subcommittee of ANB10, AFB30, ANB20, MM Marquis Ballroom Salon 7 (M2)
ANB10

Surrogate Measures of Safety Subcommittee, ANB20(3), MM Supreme Court (M4)
ANB20

10:15 a.m.–1:15 p.m.

Geotechnical Engineering Section Executive Board (by invitation), MM Tulip (Mezz)
AFS00

11:00 a.m.–12:30 p.m.

Hot Topics for Roadways Subcommittee, AHB65(4), MM Marquis Ballroom Salon 17 (M2)
AHB65

Noon–1:30 p.m.

Operations Section Executive Board (by invitation), MM LeDroit Park (M3)
AHB00

Maintenance and Preservation Section Executive Board (by invitation), MM Magnolia (Mezz)
AHD00

Aviation Group Executive Board (by invitation), MM Capitol Hill (M3)
AV000

12:15 p.m.–1:15 p.m.

12th National Conference on Transportation Asset Management (by invitation), MM Gallery Place (M3)
ABC99I

Census for Transportation Planning Subcommittee, ABJ30(1), MM Liberty P (M4)
ABJ30

Weigh-in-Motion Subcommittee, ABJ35(2), MM Liberty L (M4)
ABJ35

Transit Surveys Subcommittee, ABJ40(6), MM Liberty O (M4)
ABJ40

Gaming and Participatory Simulation Subcommittee, ABJ95(3), MM Liberty N (M4)
ABJ95

Social, Economic, and Cultural Issues Section Executive Board (by invitation), MM Farragut North (M3)
ADD00

1:30 p.m.–3:15 p.m.

Public–Private Partnerships Subcommittee, ABE10(1), MM Liberty I (M4)
ABE10

CC = Convention Center
MM = Marriott Marquis
### Sessions, Events, and Meetings: Monday, January 8 (Continued)

**MON**

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<tr>
<td>10:30 a.m.</td>
<td>Convention Center</td>
<td>Transportation Research Thesaurus Subcommittee, B0002(1), MM Pentagon (M4)</td>
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**Notes**

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- MM = Marriott Marquis
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<td>6:00 p.m.–8:00 p.m.</td>
<td>Visibility Committee, MM Chinatown (M3)</td>
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<td>5:30 p.m.–7:30 p.m.</td>
<td>TRB Information Services Committee, MM Pentagon (M4)</td>
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<td>6:00 p.m.–7:30 p.m.</td>
<td>International Research Needs Subcommittee, A0010(2), MM Independence B (M4)</td>
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<td>2019 International Transportation Finance Conference Subcommittee, ABE10(7), MM Marquis Ballroom Salon 16 (M2)</td>
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<td>Congestion Pricing Research Subcommittee, ABE25(6), MM Liberty K (M4)</td>
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<td>2019 Women's Issues in Transportation Conference Subcommittee, ABE70(1), MM Independence Hall H (M4)</td>
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<td>Tribal Historical and Archeological Preservation, ABE80(2), Joint Subcommittee of ABE80, ADC50, MM Liberty M (M4)</td>
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<td>2018 Transportation Resilience Planning Meeting Subcommittee, ABR10(9), MM Liberty I (M4)</td>
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<td>Highway Noise and Vibration Subcommittee, ADC40(3), MM Independence E (M4)</td>
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MON

6:00 p.m.–9:30 p.m.

Asphalt Materials Section Executive Board (by invitation), MM Geranium (Mezz)  AFK00
Geo-Environmental Processes Committee, MM Scarlet Oak (Mezz)  AFP40
Transportation Earthworks Committee, MM Cherry Blossom (Mezz)  AFS10
Subsurface Soil-Structure Interaction Committee, MM Marquis Ballroom Salon 3 (M2)  AFS40
Subsurface Drainage Committee, MM Marquis Ballroom Salon 15 (M2)  AFS60
Structural Health Monitoring, AHD30, Joint Subcommittee of AHD30, AHD35, AFF40, MM Howard University (M1)  AHD30
Winter Maintenance Committee, MM Georgetown University (M1)  AHD65

7:30 p.m.–9:30 p.m.

Chairs Networking Session (by invitation), MM Liberty L (M4)  A0000
Ahead of the Curve Subcommittee, ABG20(6), MM Liberty J (M4)  ABG20
Freight Transportation Data Committee, MM Capitol (M4)  ABJ90

7:30 p.m.–10:00 p.m.

Design and Rehabilitation of Asphalt Pavements Younger Members Forum, MM Silver Linden (Mezz)  AFD60
Non-Destructive Evaluation of Structures Subcommittee, AFF40(1), MM Marquis Ballroom Salon 5 (M2)  AFF40

Access Management USB!
Access Management: Manual and Applications Guidelines—Linked

TRB’s Access Management Manual, Second Edition (AMM2) and Access Management Application Guidelines (AMAG) are now available together on a USB flash drive. This USB includes the complete text of each volume with links between material common to both. Content is linked within each volume and between the two. Where possible, references are linked to their online versions. The drive also includes the AMAG’s Microsoft Excel workbooks and self-calculating spreadsheet tools. The workbooks demonstrate the basic concepts introduced in the books, and the spreadsheet tools enable users to implement these concepts in their own projects.

The AMM2 comprehensively addresses issues related to access management, including its role in corridor, network, and land use planning. The AMAG is a how-to tool for continuing the evolution of access management applications in the United States and provides additional rationale and guidance for applying the guidelines and concepts in the AMM2.

To order your copy of Access Management: Manual and Applications Guidelines—Linked and find out more about special discounts on the AMM2 and AMAG, visit: http://www.trb.org/amm14.

For more information, e-mail TRBSales@nas.edu.
Construction Management Committee, MM Marquis Ballroom Salon 1 (M2)
Quality Assurance Management Committee, MM Marquis Ballroom Salon 4 (M2)
Concrete Materials and Placement Techniques Committee, MM George Washington University (M1)
AFH10
AFH20
AFN40
RTSMO Transportation Incident Management Subcommittee, AHB10(8), MM Marquis Ballroom Salon 13 (M2)
Intermodal Freight Transport Committee, AT045 MM Union Station (M3)


We’re creating a world where “what if” can become “what is.” Our infrastructure is behind the revolutionary technologies that are transforming the way we live, work, and experience the world. With over 20 years of experience and an unparalleled national portfolio of towers, small cells, and fiber, we’re bringing the world’s biggest ideas and innovations to the people and businesses that need them.

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ONLINE JOB CENTER

TRB’s Careers in Motion Job Center is an online platform that curates professional transportation jobs from multiple employers and disciplines from around the world and connects these jobs to the broader TRB community. TRB will continue to add more features and networking opportunities to this growing platform. Post jobs and resumes at https://careers.mytrb.org

JOB NETWORKING FAIR

TRB’s Careers in Motion Networking Fair was designed to support the broader transportation industry’s challenges around attracting and retaining its professional workforce. The Networking Fair will take place in conjunction with the TRB Annual Meeting, Sunday, January 7, 2018, from 10 a.m. to 2 p.m., in Hall E of the Walter E. Washington Convention Center.

CAREERS IN MOTION NETWORKING FAIR CO-HOSTED BY: American Association of State Highway and Transportation Officials; Airport Minority Advisory Council; American Public Transportation Association; Council of Minority Transportation Officials; Council of University Transportation Centers; DC SHRM; Eno Center for Transportation; Mobility Lab; National Operations Center of Excellence; Women’s Transportation Seminar; Young Professionals in Transportation

GET MORE OUT OF YOUR TRANSPORTATION CAREER
## Sessions and Events

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516 Current Issues in Resource Conservation and Recovery, CC Hall E, Posters B300–B305
517 Emerging Research in Transportation and Land Development, CC Hall E, Posters B440–B475
518 Data-Driven Approaches to Planning a Sustainable and Resilient Future, CC Hall E, Posters B426, B430–B431, B433
519 Perspectives on Transportation and Sustainability, CC Hall E, Posters B414–B417, B421–B425, B427, B432, B434–B437
520 Advances in Intelligent Connected and Automated Transportation Systems, CC Hall E, Posters A150–A177
521 Uninterrupted Flow, CC Hall E, Posters A180–A201
522 Traffic Flow Theory and Characteristic, Part 1 (Part 2, Session 573; Part 3, Session 775; Part 4, Session 832), CC Hall E, Posters A202–A226
523 The Search for a Better Way, Part 1: Exploring New Data and New Applications of Data in Highway Safety (Part 2, Session 834), CC Hall E, Posters A100–A140

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563 Current Trends in Aviation System Planning: System Performance and Resilience, CC 144B
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572 Connected and Automated Vehicle—Enabled Signal Control, CC Hall E, Posters A270–A285
573 Traffic Flow Theory and Characteristics, Part 2 (Part 1, Session 522; Part 3, Session 775; Part 4, Session 832), CC Hall E, Posters A210–A234
574 Highway Safety Manual 2: A Sneak Preview, CC Hall E, Posters A200–A206
575 Highway Safety Performance, CC Hall E, Posters A154–A197
576 Innovative Research on Pedestrian Safety and Behavior, CC Hall E, Posters A130–A152
577 TRB’s Transit IDEA Program: Sponsoring Innovation in Transit, CC Hall E, Posters B413–B417
578 Rail Transit: 360-Degree View, CC Hall E, Posters B380–B411
579 TRB’s Rail Safety IDEA Program: Sponsoring Innovation to Improve Railroad Safety and Performance, CC Hall E, Posters B420–B430
580 Current Innovations in Intercity Passenger Rail Service, CC Hall E, Posters B431–B435
581 Research Trends in Railway Operating Technologies, CC Hall E, Posters B440–B445
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591 Analysis of SHRP 2 Safety Data: Slice, Dice, Chop, or Julienne?, CC 102A
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626 Best Papers in Urban Freight Transportation Research: See What’s Possible, CC 145B

627 Sustainable Water Management: Advancing Beyond Compliance, CC 144B

628 Essential Elements for Airport Operations: Pavement Repair, Friction, Marking, Aircraft Arresting, and Anti-icing, CC 144C

629 Making Environmental Protection and Resilience Work Together in the Coastal Environment, CC 143C

630 State CEO Roundtable: State DOTs Generating and Leveraging Dollars to Underpin Investment, CC Ballroom B

882 Regional Transportation Planning in Rural America: How Does That Work?, CC 147A

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652 Managing Transit-Sector Relationships and Resources, CC Hall E, Posters B451–B455

653 Transit Capacity and Quality of Service, CC Hall E, Posters B473–B496

654 Public Transportation: Accessibility Analysis and Tools, CC Hall E, Posters B400, B410–B415

655 Public Transportation: Developing Future Transit, CC Hall E, Posters B401–B406

656 Public Transportation: Perceptions and Behavior, CC Hall E, Posters B416–B417, B425–B427

657 Transit Networks: Design and Assessment, CC Hall E, Posters B420–B424, B430–B431

658 Transit Service Planning: Factors and Analysis, CC Hall E, Posters B432–B436, B444–B445

659 Transit Marketing, Customer Satisfaction, and Fare Policy, CC Hall E, Posters B370–B375, B384–B385

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717 Modeling of Asphalt Concrete Mixtures, CC Hall E, Posters A170–A182

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665 Transportation Survey Design Considerations, CC 154

666 With a Little Help from My Friends: Interagency Coordination in Disaster Response, CC 152A

667 Why Consider Transportation and Health in a Rural Context?, CC 156

668 Advances in Choice Behavior and Decision Rules, CC 146B

669 Advancing the Science of Transportation Demand Modeling, CC 145A

670 Strategies to Reduce Transportation Emissions and Improve Air Quality, CC 146A

671 Pollinators: State DOT Support Programs and Current Issues, CC 140A

672 Accessibility, Growth, and Development, CC 140B

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692 Research on Critical Knowledge Gaps: Teenage Driving Risk, CC 102B
693 Highlights from the 5th Annual International Conference on Roundabouts in Green Bay, Wisconsin, CC 103A
694 Bicycle/Pedestrian Safety: Simulator Studies, CC 103B
695 Walkability and Pedestrian Level of Service, CC Salon B
696 Forward Motion: New Sources of Transit Data, CC 147A
697 Integrating Big Data into the Public Transit Service Planning Process, CC 145B
698 Connecting Demand with Metro Operations, CC 147B
699 Rail Inspection and Maintenance Strategies, CC 143A
700 Freight Day, Part 4: Trade, Food, and Freight—How Changing Trends in Production and Consumption Affect Movement of Food Exports and Imports (Part 1, Session 504; Part 2, Session 562; Part 3, Session 625), CC 150A
701 Innovative Truck Size and Weight Analysis: Vehicle Classification and Infrastructure Impacts, CC 143B
702 Initiatives Affecting Airfield and Airspace Capacity and Capability Utilization, CC 144B
703 Legal and Regulatory Implications of Emerging Aviation Technologies, CC 144C
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705 SHRP 2 Safety Data: Key Results from State DOT Research, CC 144A
706 SHRP 2 Safety Data: Key Results from State DOT Research, CC 144A

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Risk and Resilience Caucus (sponsored by AEM and Michael Baker International), CC West Overlook

Meetings

7:00 a.m.–8:00 a.m.

Household Travel Surveys Subcommittee, ABJ40(1), MM Liberty L (M4)
TUE

Sessions, Events, and Meetings: Tuesday, January 9 (Continued)

8:00 a.m.–9:45 a.m.

Young Members Council, MM Marquis Ballroom Salon 17 (M2)
Sensing Technologies Subcommittee, ABJ50(1), MM Gallaudet University (M1)
Cyber Security Subcommittee, ABR10(7), MM Liberty I (M4)
Behavioral Processes: Qualitative and Quantitative Methods Subcommittee, ADB10(4), MM Independence A (M4)
Effects of Information and Communication Technologies on Travel Choices Committee, MM Monument (M4)
Transit, Freight, and Logistics Modeling Subcommittee, ADB30(1), MM Independence H (M4)
Historic and Archeological Preservation in Transportation Committee, MM Independence E (M4)
Alternative Aviation Fuels, ADC80(1), Joint Subcommittee of ADC80, AV030, MM Independence G (M4)
Traffic Structures Subcommittee, AFF10(1), MM Magnolia (Mezz)
Joint Meeting of RTSMO Data for Transportation Operations Subcommittee, AHB10(3), and Measuring and Quantifying Performance Subcommittee, AHB10(1), MM Marquis Ballroom Salon 13 (M2)
Transportation Safety Planning Subcommittee, ANB10(3), MM Marquis Ballroom Salon 15 (M2)
School Transportation Subcommittee, ANB10(6), MM Marquis Ballroom Salon 14 (M2)
Public Transportation Group Young Members Subcommittee, AP000(2), MM Judiciary Square (M3)
Automated Transit Systems Committee, MM Congress (M4)
International Light Rail Transit Developments Subcommittee, AP075(3), MM Treasury (M4)
Railroad Environmental Research Issues Subcommittee, AR020(1), MM Woodley Park (M3)
National Aviation System Planning Symposium Organizing Team, AV020(1), MM Pentagon (M4)
Aviation Geographic Information Systems and Data, AV070(1), Joint Subcommittee of AV070, ABJ60, MM Chinatown (M3)
Marine Environment Committee, MM Archives (M4)

8:00 a.m.–noon

International Cooperation Committee, MM Independence C (M4)
Performance Measurement Committee, MM Liberty L (M4)
Congestion Pricing Committee, MM Liberty K (M4)
Transportation Issues in Major Cities Committee, MM Liberty M (M4)

Transportation in the Developing Countries Committee, MM Marquis Ballroom Salon 10 (M2)
Conduct of Research Committee, MM Liberty J (M4)
Geographic Information Science and Applications Committee, MM Liberty O (M4)
Artificial Intelligence and Advanced Computing Applications Committee, MM Liberty N (M4)
Statewide Multimodal Transportation Planning Committee, MM Independence D (M4)
Environmental Justice in Transportation Committee, MM Independence B (M4)
Geospatial Data Acquisition Technologies in Design and Construction Committee, MM Scarlet Oak (Mezz)
General and Emerging Pavement Design Committee, MM Marquis Ballroom Salon 1 (M2)
Pavement Structural Modeling and Evaluation Committee, MM Marquis Ballroom Salon 2 (M2)
Testing and Evaluation of Transportation Structures Committee, MM Georgetown University (M1)
Structural Fiber Reinforced Polymers Committee, MM Silver Linden (Mezz)
Project Delivery Methods Committee, MM Marquis Ballroom Salon 4 (M2)
Asphalt Pavement Construction and Rehabilitation Committee, MM Marquis Ballroom Salon 3 (M2)
Surface Requirements of Asphalt Mixtures Committee, MM Marquis Ballroom Salon 5 (M2)
Engineering Geology Committee, MM Cherry Blossom (Mezz)
Soil and Rock Properties Committee, MM Dogwood (Mezz)
Freeway Operations Committee (Part 1 of 2), MM Supreme Court (M4)
Work Zone Traffic Control Committee, MM Marquis Ballroom Salon 9 (M2)
Highway–Rail Grade Crossings Committee, MM Capitol (M4)
Task Force on System Simulation (by invitation), MM Shaw (M3)
Maintenance and Operations Personnel Committee, MM Catholic University (M1)
Pavement Preservation Committee, MM University of DC (M1)
Maintenance Equipment Committee, MM George Washington University (M1)
Occupant Protection Committee, MM Marquis Ballroom Salon 8 (M2)
Safe Mobility of Older Persons Committee, MM Howard University (M1)
Bicycle Transportation Committee, MM Marquis Ballroom Salon 12 (M2)
Paratransit Committee, MM Mount Vernon Square (M3)
Commuter Rail Transportation Committee, MM Mint (M4)
Airfield and Airspace Capacity and Delay Committee, MM Union Station (M3)

CC = Convention Center
MM = Marriott Marquis
10:15 a.m.–noon

Urban Big Data Subcommittee, ABJ30(2), MM Congress (M4)
Supply Chain Security Subcommittee, ABR10(8), MM Liberty I (M4)
Transportations Needs of National Parks and Public Lands Research Subcommittee, ADA40(1), MM Independence A (M4)
Transportation Demand Forecasting Committee, ADB40
Analysis: Regional and Project-Level Air Quality Innovations and Resources Subcommittee, ADC20(1), MM Independence H (M4)
Resource Conservation and Recovery Committee, ADC60
Low-Volume Roads Conference Planning Subcommittee, AFB30(1), MM Gallaudet University (M1)
Bridge Aesthetics Subcommittee, AFF10(2), MM Magnolia (Mezz)
Geoseismic Issues of Bridges and Other Structures, AFF50(1), Joint Subcommittee of AFF50, AFS30, MM Independence G (M4)
RTSMO Sustainability Subcommittee, AHB10(5), MM Marquis Ballroom Salon 13 (M2)
Managed Lanes Research Subcommittee, AHB35(2), MM Marquis Ballroom Salon 17 (M2)
Contract Law Committee, MM Marquis Ballroom Salon 15 (M2)
Young Drivers Subcommittee, ANB30(1), MM Marquis Ballroom Salon 14 (M2)
Human Factors in Road Vehicle Automation, AND10(3), AND10
Joint Subcommittee of AND10, AHB15, AHB30, MM Marquis Ballroom Salon 7 (M2)
Transit Capacity and Quality of Service Committee, AP015, MM Judiciary Square (M3)
TRB Rural Public and Intercity Bus Transportation Conference Planning Subcommittee, AP055(1), MM Treasury (M4)
Intercity Passenger Rail Intermodal Interface Subcommittee, AR010(1), MM Woodley Park (M3)
Aircraft/Airport Compatibility Committee, AV070
Commercial Airlines Subcommittee, AV080(3), MM Archives (M4)
Roundabout Video Theater, MM Marquis Ballroom Salon 11 (M2)

Noon–1:30 p.m.

TRB State Representatives and State Department of Transportation Chief Executive Officers’ Lunch (by invitation), MM Marquis Ballroom Salon 6 (M2)
Environment and Energy Section Executive Board (by invitation), MM Farragut North (M3)
Operations and Preservation Group Young Professionals Subcommittee, AH000(1), MM Shaw (M3)

10:15 a.m.–3:15 p.m.

National Conference on Access Management Subcommittee, AHB70(1), MM Marquis Ballroom Salon 9 (M2)
Concrete Materials Section Executive Board (by invitation), MM Geranium (Mezz)
Public Transportation Group Executive Board (by invitation), MM LeDroit Park (M3)
Management and Leadership Section Executive Board (by invitation), MM Gallery Place (M3)
Safety Data Subcommittee, ABJ20(1), MM Liberty N (M4)
Freight Surveys Subcommittee, ABJ40(2), MM Liberty O (M4)
Information Systems and Technology Research Subcommittee, ABE60(5), MM Howard University (M1)
System Performance Subcommittee, ABE95(2), MM Supreme Court (M4)
Joint Meeting of the RTSMO Subcommittee Chairs and Research Needs Subcommittee, ABE10(7), MM Marquis Ballroom Salon 13 (M2)
International Members Council—Aviation, AV000(2), MM Union Station (M3)
Committee Communications Coordinators Council—Aviation, AV000(4), MM Pentagon (M4)
Congestion Pricing Outreach Subcommittee, ABE25(1), ABE25
TRANSED Conference Planning Subcommittee, ABE60(5), MM Howard University (M1)
Task Force on Understanding New Directions for the National Household Travel Survey Task Force, MM Liberty O (M4)
Mega-Regions Subcommittee, ADA20(1), MM Monument (M4)
Network Equilibrium Modeling Subcommittee, ADB30(2), MM Independence A (M4)
Transportation Energy Committee, MM Independence E (M4)
Health and Transportation, ADD50(1), Joint Subcommittee of ADD50, ADD40, ADB10, ABJ30, MM Independence B (M4)
Accelerated Pavement Testing International Conferences Subcommittee, AFD40(1), MM Scarlet Oak (Mezz)
Structures Collaboration Subcommittee, AFF00(1), MM Silver Linden (Mezz)
Design and Construction of Roller Compacted Concrete Pavements Subcommittee, AFH50(1), MM Gallaudet University (M1)
Geophysics Subcommittee, AFP20(1), MM Dogwood (Mezz)
RTSMO Sustainability Subcommittee, AHB10(5), MM Marquis Ballroom Salon 13 (M2)
## Sessions, Events, and Meetings: Tuesday, January 9 (Continued)

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<td>Task Force on Understanding Big Data in Freight Transportation, MM</td>
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<td>Alternative Transportation Fuels and Technologies Committee, MM</td>
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Sessions, Events, and Meetings: Tuesday, January 9 (Continued)

- **Transit Fleet Maintenance Subcommittee, AP010(2), MM Mint (M4)**
- **TRB Light Rail Transit Conference Planning Subcommittee, AP075(2) (by invitation), MM Pentagon (M4)**
- **InterCity Passenger Rail Research Subcommittee, AR010(3), MM Treasury (M4)**
- **Freight Rail Transportation Committee, MM Capital (M4)**
- **Aviation Climate Change and Sustainability Subcommittee, AV030(1), MM Union Station (M3)**
- **Aviation Economics and Forecasting Committee, MM Judiciary Square (M3)**
- **Port Performance Subcommittee, AW010(2), MM Congress (M4)**

5:30 p.m.–7:30 p.m.

- **Structures Section Executive Board (by invitation), MM Gallery Place (M3)**

6:00 p.m.–7:30 p.m.

- **Parking Management, ABE50(1), Joint Subcommittee of ABE50, ABE20, ABE25, AP020, MM Howard University (M1)**
- **Research and Education Section Executive Board (by invitation), MM Capitol Hill (M3)**
- **Planning and Environment Group Executive Board (by invitation), MM Farragut North (M3)**
- **Climate Change, ADC70(2), Joint Subcommittee of ADC70, ADC80, ADD40, MM Independence D (M4)**
- **Managed Lanes Outreach Subcommittee, AHB35(1), MM Marquis Ballroom Salon 17 (M2)**
- **Traffic Flow Modeling for Connected and Automated Vehicles Subcommittee, AHB45(3), MM Marquis Ballroom Salon 9 (M2)**
- **Work Zone Simulation Subcommittee, AHB70(4), MM Marquis Ballroom Salon 8 (M2)**
- **Maintenance and Preservation Section Research Coordinators Subcommittee, AHD00(4), MM Liberty J (M4)**
- **Toward Zero Deaths Goal Subcommittee, ANB10(9), MM Marquis Ballroom Salon 12 (M2)**
- **Animal-Vehicle Collisions, ANB20(2), Joint Subcommittee of ANB20, ADC30, MM Marquis Ballroom Salon 14 (M2)**
- **Aviation Security and Emergency Management Committee, MM Mount Vernon Square (M3)**

6:00 p.m.–8:00 p.m.

- **Freeway Operations Committee (Part 2 of 2), MM Marquis Ballroom Salon 10 (M2)**

6:00 p.m.–9:30 p.m.

- **Landscape and Environmental Design Committee, MM Tulip (Mezz)**
- **Hydrology and Hydraulics Committee, MM George Washington University (M1)**
- **Construction Section Executive Board (by invitation), MM Silver Linden (Mezz)**
- **Geological and Geoenvironmental Engineering Section Executive Board (by invitation), MM Catholic University (M1)**
- **Surface Transportation Weather Committee, MM Marquis Ballroom Salon 2 (M2)**
- **Safety and Security of Bridges and Structures Subcommittee, AHD35(1), MM Scarlet Oak (Mezz)**
- **Bridge Life-Cycle Cost Analysis Subcommittee, AHD35(2), MM Dogwood (Mezz)**

7:00 p.m.–8:30 p.m.

- **A Tribute to Herbert Levinson, CC 102B**

7:30 p.m.–9:30 p.m.

- **Committee Communication Coordinators Council, MM Marquis Ballroom Salon 3 (M2)**
- **Advanced Models to Understand Behavior and Performance of Asphalt Mixtures Subcommittee, AKB00(1), MM Marquis Ballroom Salon 5 (M2)**
- **Nanotechnology-Based Concrete Materials Subcommittee, AFB10(1), MM Marquis Ballroom Salon 1 (M2)**
- **RTSMO Planning for Operations Subcommittee, AHB10(2), MM Marquis Ballroom Salon 13 (M2)**
- **Intersections, AHB65(1), Joint Subcommittee of AHB65, AFB10, AFB70, BB20, MM Marquis Ballroom Salon 9 (M2)**
- **Legal Resources Group Executive Board, MM Marquis Ballroom Salon 15 (M2)**
- **Rail Capacity, AR040(1), Joint Subcommittee of AR040, AR030, AP070, AT010, AR010, MM Treasury (M4)**
- **Aviation Safety Subcommittee, AV090(1), MM Mount Vernon Square (M3)**

7:30 p.m.–10:00 p.m.

- **Context Sensitive Solutions Subcommittee, AFB00(1), MM Magnolia (Mezz)**
- **Roadside Safety Design International Research Activities Subcommittee, AFB20(2), MM Georgetown University (M1)**
- **Sustainable Pavements Subcommittee, AFD30(2), MM University of DC (M1)**
- **Properties of Concrete Committee, MM Marquis Ballroom Salon 4 (M2)**

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Sessions, Events, and Meetings: Wednesday, January 10

Lectern Sessions and Events

732 Taking a Chance on Risk: Quantitative Approaches for Incorporating Risk into Asset Management Decisions, CC 151A
733 Projecting and Evaluating P3 Project Performance: From Value for Money to Handback, CC 152A
734 Economic Impacts on Transportation Investments, CC 151B
735 Pedestrian Safety in Colombia, India, and Tanzania, CC 150B
736 Moving the Latest Pavement Research into Practice: National, State, and Local Case Studies, CC 152B
737 Challenges and Successes in Meeting Federal Safety Data Requirements, CC 154
738 Freight Versus Life? How to Collect and Differentiate Freight Data and Household Travel Data in an Age of E-Commerce, CC 143B
739 Total Solar Eclipse on August 21, 2017: Special Event with Coast to Coast Traffic Congestion, CC 146B
740 What’s APPening with the Tweets and Posts? Social Media, Transportation Agencies, and Travel Behavior, CC 145A
741 Best Papers from the 16th Transportation Planning Applications Conference, CC 156
742 Improving Road Travel Fuel Efficiency and Emissions, Part 2: Effective Policies (Part 1, Session 408), CC 150A
743 Transportation and Economic Development Linkages: New Insights from Asia and the Far East, CC 140B
744 The Built Environment, Travel Behavior, and Smart Growth, CC 140A
745 Green Stormwater Infrastructure, CC 209A
746 Pavement Materials and the Urban Climate, CC 204A
747 Emerging Pavement Design and Analysis, CC 207A
748 Network-Level Pavement Structural Evaluation, CC 207B
749 Pavement Texture, Friction, and Safety Issues, CC 203
750 Longitudinal Deck-Level Connections for Accelerated Bridge Construction, CC 202B
751 Bridge Performance in Recent Earthquakes, CC 204C
752 Innovations and New Approaches for Inspection, Maintenance, Rehabilitation, and Asset Management of Existing Underground Structures, CC 208B
753 Mix Designs, Laboratory Conditioning, and Performance Indicators of Bituminous Materials, CC 201
754 Use of Recycled Materials in Transportation Infrastructure, CC 204B
755 Connected and Automated Vehicle Systems in Complex Transportation Systems, CC 102B
756 Pavement Marking Management, Life-Cycle Cost Tool, Waterborne Deterioration Characteristics, and LED Traffic Sign Performance, CC 208
757 Optimizing Snow Removal Processes, CC 206
758 National Transportation Safety Board Accident Investigations, CC Salon B
759 Advances in Automated Vehicle Technologies and Challenges for Motor Vehicle Occupant Safety, CC 103A
760 Advancing Mobility on Demand with Low-Speed Automation and Innovative Operational Strategies, CC 147A
761 Passenger and Freight Intermodal Hubs and Terminals as Critical Infrastructure: Lessons for Resilience, CC 145B
762 Commuter Rail: Operations Research and Analysis, CC 147B
763 Food and Perishable Goods: Distribution and Recovery, CC 143A
764 Trade and Transportation in North America: Challenges and Opportunities, CC 144A
765 Ongoing Air Service Battles in Small Communities, CC 144C
766 Health Impacts of Transportation Noise, CC 144B
767 Research in Maritime Safety and Human Factors, CC 143C
792 When Push Comes to Shove: Anticipating and Preparing for Emerging Technologies and Innovations in Transportation, CC 202A

Poster Sessions

768 Social Networks and Group Behavior, CC Hall E, Posters B300–B304, B306–B310
769 Car Ownership and Mobility Decisions, CC Hall E, Posters B305, B311–B314
770 Emerging Mobility, CC Hall E, Posters B397–B407
771 Choice Analysis, CC Hall E, Posters B315, B317–B331
772 Activity Patterns and Activity Scheduling, CC Hall E, Posters B332–B334, B336–B343, B350
773 Travel Behavior of Special Population Groups, CC Hall E, Posters B316, B351–B363
774 Travel Behavior, CC Hall E, Posters B335, B364–B396
775 Traffic Flow Theory and Characteristics, Part 3 (Part 1, Session 522; Part 2, Session 573; Part 4, Session 832), CC Hall E, Posters A219–A237
776 Operational Effects of Innovative Intersection and Interchange Designs, CC Hall E, Posters A200–A212
777 A Collection of Roundabout Topics: Safety, Design, and Operations, CC Hall E, Posters A100–A106
778 Human Factors Potpourri: Driver Health, State, and Interactions with Technology and the Environment, CC Hall E, Posters A110–A125
779 Current Research on User Information Systems, CC Hall E, Posters A130–A141
780 Evaluating Driving Simulators and Advanced Driver Assistance Systems, CC Hall E, Posters A143–A155
781 Cycling Safety and Comfort, CC Hall E, Posters A160–A176
782 Cycling Demand and Cyclist Behavior, CC Hall E, Posters A177–A192

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**Lectern Sessions and Events**

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**We’re working with cities and transit agencies around the world to make it easier for people to move around.**

Want to learn more? Reach out to

TRANSIT@UBER.COM
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817 Analysis of International Road Safety Data, CC Salon B
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819 Drivers’ Behavior as a Function of Their Characteristics and the Driving Environment, CC 103A
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822 Technology and Innovation in Paratransit Delivery, CC 147A
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825 Airfield Pavement Testing to Meet the Needs of Current and Future Aircraft, CC 144B
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829 Travel Demand Models R Us, CC Hall E, Posters B304–B386
830 Urban Applications of Connected and Automated Vehicle Systems, CC Hall E, Posters A235–A247
831 Connected Vehicle Applications, CC Hall E, Posters A200–A207
832 Traffic Flow Theory and Characteristics, Part 4 (Part 1, Session 522; Part 2, Session 573; Part 3, Session 775), CC Hall E, Posters A210–A234
833 Speed Effects of Highway Design Features, CC Hall E, Posters A250–A255, A260–A264
835 Pedestrian Planning, Modeling, and Simulation, CC Hall E, Posters A100–A121
836 Measuring Aviation System Performance: Role in Decision Making and Data Needs, CC 154
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(Sessions, Events, and Meetings continue on page 67.)
Chairman’s Luncheon
Sponsored by TRB Executive Committee

The program for the Chairman’s Luncheon, hosted by 2017 Executive Committee Chair Malcolm Dougherty, includes the introduction of new Executive Committee members and officers; the presentation of TRB’s most prestigious awards; and an address by featured speaker James Ray, Senior Advisor for Infrastructure, Office of the Secretary, U.S. Department of Transportation. Mr. Ray is expected to discuss the infrastructure and transportation priorities and programs of the Trump administration. Limited seating (without lunch) is available for attendees who do not purchase a luncheon ticket.

Luncheon Speaker
With more than 20 years of leadership experience in the U.S. Department of Transportation, the White House Office of Management and Budget, on Capitol Hill, and in the private sector, James Ray possesses a keen understanding of the legal, regulatory, policy, and business frameworks underpinning infrastructure and transportation policy, project development, public–private partnerships, and other innovative delivery models.

Mr. Ray currently serves as Secretary Elaine Chao’s Senior Advisor for Infrastructure at U.S. DOT. In this capacity, he leads the Secretary’s infrastructure agenda across all modes of transportation, sits on U.S. DOT’s council on credit and finance, and supports U.S. DOT’s interagency coordination efforts.

Prior to his return to government in 2017, Mr. Ray worked as a partner in KPMG’s infrastructure practice. In that capacity, he worked with government clients to deliver large-scale projects through innovative delivery methods and co-founded KPMG’s infrastructure strategy business to drive cost savings and efficiencies in infrastructure-intensive organizations.

Before his tenure in consulting, he served the George W. Bush administration in various capacities, including Deputy General Counsel for the White House Office of Management and Budget. Mr. Ray also served as Chief Counsel and as both Deputy Administrator and Acting Administrator for the Federal Highway Administration.

Mr. Ray earned his B.A. from the University of North Carolina at Chapel Hill and his J.D. from the Georgetown University Law Center.

Awards
Roy W. Crum Distinguished Service Award
Named for Roy W. Crum, who served as TRB director from 1928 until his death in 1951, the Crum Award recognizes outstanding leadership in transportation research or research administration.

Dr. Susan A. Shaheen, Co-Director, Institute of Transportation Studies’ Transportation Sustainability Research Center, University of California (UC), Berkeley; Adjunct Professor, Civil and Environmental Engineering Department, UC Berkeley; and faculty scientist at the Lawrence Berkeley National Laboratory, is the 2017 recipient of the Crum Award for her distinguished achievements in transportation research.

Dr. Shaheen is an internationally recognized leader in research on shared mobility and environmentally friendly transportation. Her research has broken new ground in carsharing, bikesharing, and shared-ride services for more than two decades. She has also advanced sustainable transportation research in the areas of smart parking management for public transit and trucks; eco-routing for private vehicles and freight; fuel cell, electric, and plug-in hybrid vehicles and infrastructure; smart cities; and older mobility. She has authored 60 journal articles, more than 120 reports and proceedings articles, and nine book chapters, as well as co-edited two books.

Her research projects on carsharing, smart parking, and older mobility have received national awards. She envisions a new transportation future in which advanced information, automation, and clean fuel technologies are integrated to offer travelers many of the same advantages as personal vehicles, yet provide tripmaking options that are more diverse and environmentally and socially sustainable. Her contributions have included reaching out to, and bringing together, a broad array of stakeholders to work together to help make this vision a reality.

For almost 20 years, Dr. Shaheen has provided continual service to TRB as either a chair or a member of Technical Activities Division groups, standing committees, or subcommittees; Studies and Special Programs committees; and Transit Cooperative Research Program, National Highway Cooperative Research Program, and Airport Cooperative Research Program panels. She was a member of the committee that produced TRB Special Report 319: Between Public and Private Mobility: Examining the Rise of Technology-Enabled Transportation Services, which analyzed how innovative transportation services, including shared-ride services, carsharing, bikesharing, and microtransit, are changing mobility for millions of travelers. The report called upon policymakers and regulators to formulate consistent policies that encourage competition among emerging and traditional transportation services in order to improve mobility, safety, and sustainability.

Dr. Shaheen has also served as the Policy and Behavioral Research Program Leader at California Partners for Advanced Transit and Highways and as a special assistant to the Director’s Office of the California Department of Transportation. She has been named one of the top 10 academic thought leaders in transportation by the Eno Transportation Foundation and received two “Excellence in Management” awards from UC Berkeley.

She is a desk editor for the journal Transport Policy and is a member of the editorial board of the International Journal of Sustainable Transportation and the International Journal of Transportation Science and Technology. She is a member of the Intelligent Transportation Systems Program Advisory Committee to the Secretary of Transportation and the Mobile Source Technical Review Subcommittee to the U.S. Environmental Protection Agency’s Clean Air Act Advisory Committee.

Dr. Shaheen has a Ph.D. from UC Davis in ecology, focusing on the energy and environmental aspects of transportation, and an M.S. from the University of Rochester in public policy analysis.

W. N. Carey, Jr., Distinguished Service Award
In recognition of his outstanding service to TRB and transportation research, Michael F. Trentacoste is the 2017 recipient of the W. N. Carey, Jr., Distinguished Service Award. Mr. Trentacoste retired as the Federal Highway Administration’s (FHWA’s) Associate Administrator for Research, Development, and Technology on September 30, 2017. The Carey Award—named in honor of W. N. Carey, Jr., TRB’s Executive Director from 1967 to 1980—recognizes individuals who have given leadership and distinguished service to TRB.

A tireless advocate for safety, Mr. Trentacoste has served as a member and then chair of TRB’s Standing Committee on Transportation Safety Management. He has also served as a member of the Technical Activities Division’s Safety Section, which provides general oversight to nine committees and two task forces that propose research, share research findings, sponsor special activities, and provide a forum for transportation professionals to discuss today and tomorrow’s safety-related transportation issues. He was the federal liaison to the second (Continued on the following page.)
Strategic Highway Research Program (SHRP 2) Technical Coordinating Committee for Safety Research that helped oversee SHRP 2's Naturalist Driving Study, which resulted in the largest collection of data on driving behavior. In addition, Mr. Trentacoste has been a key player in the development of strategies designed to ensure that SHRP 2's research results are implemented to improve the way transportation professionals plan, operate, maintain, and ensure safety on America's roadways. Mr. Trentacoste has also been a member and a federal liaison to eight other committees, panels, and task forces.

A frequent contributor to TRB's Executive Committee, Mr. Trentacoste has contributed more than 40 years of service to the transportation community, including 31 years with FHWA, to help TRB fulfill its mission and sustain the vitality of its programs. Most recently, he has served on the Executive Committee's Task Force on International Activities and is a member of the Executive Committee’s Centennial Planning Task Force.

As Associate Administrator for Research, Development, and Technology, Mr. Trentacoste was responsible for leading a comprehensive national research, development, and technology program designed to meet the needs and goals of the highway community and the nation's highway transportation system. In this capacity, he oversaw development of FHWA's National Research and Technology Agenda; the agency's research, development, and technology legislative and budget requests; and collaborations with TRB and other domestic and international highway research counterparts. He also served as the Director of FHWA's Turner-Fairbank Highway Research Center in McLean, Virginia, with responsibility for a yearly budget of $70 million that is used for advanced and applied infrastructure, operations, and safety research and development.

Prior to this appointment, Mr. Trentacoste served for 10 years as the Director, Office of Safety Research and Development. He joined FHWA in 1986 and led development of the National Commercial Drivers' License testing and licensing standards. In 1987, he became Director, Office of Motor Carrier Standards, with responsibility for all commercial and motor carrier rule-making and research activities. He served as Director, Office of Motor Carrier Field Operations, and its 500 employees, with responsibility for enforcement of the Federal Motor Carrier Safety Regulations and the Motor Carrier Safety Assistance Program to the States.

Mr. Trentacoste received his bachelor's degree in civil engineering from Manhattan College and his master's degree in transportation from Northwestern University. He is a registered civil engineer in the State of New York. He has received numerous performance and honor awards, including the President's Meritorious Senior Executive Award, the Secretary's Award for Meritorious Achievement, both the FHWA and the FRA Administrator's Superior Achievement Award, and in 2013, the FHWA Heartland Award.

Sharon D. Banks Award for Humanitarian Leadership in Transportation

The Sharon D. Banks Award is a biennial award established in the memory of Sharon Banks, who chaired the TRB Executive Committee in 1998 before she died in 1999. The award recognizes innovative and successful leadership in people-oriented initiatives in transportation, sustained over an extended period of time, that exemplify Banks' ideals of humanity and service.

The 2018 recipient of the Sharon D. Banks Award is Mr. William W. Millar, former president of the American Public Transportation Association (APTA). Mr. Millar is recognized for his leadership and mentoring of an entire generation of public transportation leaders. Since the earliest stages of his career, Mr. Millar has exemplified the ideals of Sharon Banks. For example, as the Executive Director of the Port Authority of Allegheny County (Pittsburgh, Pennsylvania), Mr. Millar led the way in improving transportation accessibility by working with persons in the disability community to develop practical, usable transportation services and facilities years before the passage of the Americans with Disabilities Act.

Mr. Millar was both a friend and a mentor to Ms. Banks. Their friendship and collaboration was evident in TRB's Transit Cooperative Research Program, which Mr. Millar helped establish, and they both served on the Transit Oversight and Project Selection Committee. In their roles, both emphasized the characteristics of humanitarian leadership through collaboration, cooperation, and most importantly, valuing the insights of others. As APTA President from 1996 to 2011, he helped forge partnerships to move public transportation forward, whether it was helping to actualize the special acronym behind the Easter Seals Association's Project ACTION: “Accessible Community Transportation in Our Nation” or pushing for people-oriented initiatives that brought together individuals of diverse backgrounds in the pursuit of excellence by strengthening relationships with transit workers unions, the Conference of Minority Transportation Officials, the Women's Transportation Seminar, and others or pushing public transportation to be better integrated into federal, state, and local transportation policies and plans. Within APTA, he is credited with fostering an environment of camaraderie and empathy, also traits of Sharon Banks, which helped to lay the groundwork for the resurgence of transit in America.

Mr. Millar, a strong supporter of transportation research, received the Founding Father Award for his leadership in establishing the Transit Cooperative Research Program. His service to TRB began in 1976 when he served as a member of the Standing Technical Committee on Transportation for the Transport-ded Disadvantaged. His service to TRB has continued, almost uninterrupt, since that point. He was also a member of the TRB Executive Committee for more than two decades, serving as its chair in 1992. In recognition of this contribution, Mr. Millar was named a National Associate of the National Academies of Sciences, Engineering, and Medicine in 2001.

Mr. Millar is the recipient of many awards, including APTA's Jesse Haugh Award as Transit Manager of the Year; TRB’s W. N. Carey, Jr., Distinguished Service Award and Thomas B. Deen Distinguished Lectureship; Railway Age's Graham Claytor Award; the Texas A&M Transportation Institute's Director's Research Champion Award; and the Eno Foundation's Award for Transportation Excellence. The William W. Millar Award for the best paper dealing with public transportation was instituted by TRB in his honor. Mr. Millar has received lifetime achievement awards from the American Association of State Highway and Transportation Officials, the Conference of Minority Transportation Officials, and the Council of University Centers. He is a member of APTA’s Hall of Fame and the Intelligent Transportation Officials, the Women’s Transportation Seminar, and others or initiatives that brought together individuals of diverse backgrounds in the pursuit of excellence by strengthening relationships with transit workers unions, the Conference of Minority Transportation Officials, the Women’s Transportation Seminar, and others.

Mr. Millar has a bachelor's degree from Northwestern University in geography and a master's degree from The University of Iowa in urban transportation planning and policy analysis.

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Founding Contributors to the Sharon D. Banks Award

AC Transit
American Public Transportation Association
California Transit Association
Conference of Minority Transportation Officials
Maritime Administration, U.S. DOT
Office of the Assistant Secretary for Research and Technology, U.S. DOT
Transportation Research Board, National Academies of Sciences, Engineering, and Medicine
Emeritus Members of TRB Standing Committees, 2018

Emeritus membership recognizes the significant, long-term contributions of individuals who have provided outstanding service through participation on the Board’s standing committees.

Stuart D. Anderson  
Construction Management Committee

Joseph G. B. Bryan  
Urban Freight Transportation Committee

Curtis A. Clabaugh  
Geospatial Data Acquisition Technologies Committee

James M. Crites  
Airfield and Airspace Capacity and Delay Committee

Alan R. Danaher  
Transit Capacity and Quality of Service Committee

Joseph S. Demko  
Roadside Maintenance Committee

Mohamed K. Elfino  
Subsurface Drainage Committee

Karl H. Frank  
Steel Bridges Committee

Brendon Hemily  
Public Transportation Planning and Development Committee

Edward V. A. Kussy  
Legal Resources Group

D. Stephen Lane  
Aggregates Committee

Anne C. Morris  
Environmental Justice in Transportation Committee

Robert Lance Peskin  
Transit Management and Performance Committee

Donald A. Streeter  
Concrete Materials and Placement Techniques Committee

Paul D. Thompson  
Bridge Management Committee

Sam C. Tignor  
User Information Systems Committee

Ronald G. Van Houten  
Pedestrians Committee

Meetings

7:00 a.m.–8:00 a.m.

Data and Information Systems Research Subcommittee, ABJ00(1) (by invitation), MM Capitol Hill (M3)

8:00 a.m.–9:45 a.m.

Asset Management Education Subcommittee, ABC40(5), MM Congress (M4)

Congestion Pricing Economics, ABE25(2), Joint Subcommittee of ABE25, ABE20, MM Liberty I (M4)

Accessible Transportation and Mobility Research Subcommittee, ABE60(4), MM Howard University (M1)

National Transportation Data Requirements and Programs Committee, MM Liberty O (M4)

World Society for Transport and Land Use Research Conference Planning Subcommittee, ADB10(5), MM Independence A (M4)

Social and Economic Factors of Transportation Committee, MM Independence B (M4)

Roadside Safety Data Needs and Applications Committee, MM Silver Linden (Mezz)

Pavement Management Systems in Local Governments Subcommittee, AFD10(1), MM Tulip (Mezz)

Quality Management for Alternative Project Delivery Subcommittee, AHF20(1), MM Catholic University (M1)

Managed Lanes Committee, MM Marquis Ballroom Salon 10 (M2)

Traffic Speed and Safety—Cross-Cutting Issues, ANB20(5), Joint Subcommittee of ANB20, AHB65, ANB10, MM Marquis Ballroom Salon 14 (M2)

Truck and Bus Technology Subcommittee, ANB70(6), MM Marquis Ballroom Salon 13 (M2)
### Sessions, Events, and Meetings: Wednesday, January 10 (Continued)

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<td>Knowledge Management Task Force, MM Liberty N (M4)</td>
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<td>Basic Research and Emerging Technologies Related to Concrete Committee, MM Georgetown University (M1)</td>
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<td>Geotechnical Site Characterization Committee, MM Magnolia (Mezz)</td>
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<td>Engineering Behavior of Unsaturated Geomaterials Committee, MM George Washington University (M1)</td>
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<td>Public Transportation Planning and Development Committee, MM Capitol (M4)</td>
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<td>Section Leaders Discussion, MM Mint (M4)</td>
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<td>Accessible Transportation and Mobility—Policy and Practice Subcommittee, ABE60(1), MM Howard University (M1)</td>
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<td>Bicycle and Pedestrian Data, ABJ35(3), Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40, ANF20, ANF10, MM Congress (M4)</td>
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<td>Human Factors Road Design Guides, AND10(2), Joint Subcommittee of AND10, AND20, MM Marquis Ballroom Salon 8 (M2)</td>
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<td>Human Factors of In-Vehicle Systems, AND20(1), Joint Subcommittee of AND20, AND10, MM Marquis Ballroom Salon 14 (M2)</td>
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<td>Emerging Ridesharing Solutions, AP020(2), Joint Subcommittee of AP020, AP025, AHB15, MM Chinatown (M3)</td>
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<td>Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040, MM Mount Vernon Square (M3)</td>
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<td>Aviation System Planning Committee, MM Archives (M4)</td>
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<td>12:15 p.m.–2:15 p.m.</td>
<td>Travel Analysis Methods Section Executive Board (by invitation), MM Capitol Hill (M3)</td>
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**CC** = Convention Center

**MM** = Marriott Marquis
### Sessions, Events, and Meetings: Wednesday, January 10 (Continued)

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<tr>
<td>12:15 p.m.–4:00 p.m.</td>
<td>Highways Safety Performance User Liaison and Technology Facilitation Subcommittee, ANB25(3), MM Marquis Ballroom Salon 12 (M2)</td>
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<td>2:30 p.m.–4:00 p.m.</td>
<td>Accessible Transportation and Mobility—Technology Subcommittee, ABE60(2), MM Howard University (M1)</td>
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<td>Energy and Demand Implications of Connected and Automated Vehicles, ADC70(3), Joint Subcommittee of ADC70, AHB30, MM Independence C (M4)</td>
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<td>Self-Powered Units, AP070(1), Joint Subcommittee of AP070, AR020, MM Union Station (M3)</td>
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<td>2:30 p.m.–6:00 p.m.</td>
<td>Value of Transportation Infrastructure Task Force (by invitation), MM Liberty J (M4)</td>
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<td>Committee Research Coordinator (CRC) Meeting—Advanced, MM Marquis Ballroom Salon 3 (M2)</td>
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<td>Pavement Management Systems Committee, MM Georgetown University (M1)</td>
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<td>Tunnels and Underground Structures Committee, MM George Washington University (M1)</td>
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<td>Structural Requirements of Asphalt Mixtures Committee, MM University of DC (M1)</td>
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<td>Regional Transportation Systems Management and Operations Committee, MM Marquis Ballroom Salon 10 (M2)</td>
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<td>TRB Executive Committee (by invitation), MM Liberty LM (M4)</td>
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<td>4:30 p.m.–6:00 p.m.</td>
<td>International Transportation Survey Conferences Steering Committee, MM Archives (M4)</td>
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<td>Pavements Section Executive Board (by invitation), MM Tulip (Mezz)</td>
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<td>5:30 p.m.–7:30 p.m.</td>
<td>National Transportation Library Freight Data Dictionary: Freight Data User Forum (by invitation), CC 140B</td>
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<td>Highway Safety Performance Policy and Legal Aspects Subcommittee, ANB25(1), MM Marquis Ballroom Salon 16 (M2)</td>
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<td>6:15 p.m.–7:15 p.m.</td>
<td>Safety and System Users Group Executive Board (by invitation), MM Marquis Ballroom Salon 14 (M2)</td>
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<td>7:00 p.m.–9:00 p.m.</td>
<td>Combined Highway Safety Performance Research Subcommittees Meeting, MM Marquis Ballroom Salon 10 (M2)</td>
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**CC = Convention Center**  
**MM = Marriott Marquis**
Sessions, Events, and Meetings: Thursday, January 11

**Sessions and Events**

8:00 a.m.–noon

- **872** Ahead of the Curve: Mastering the Management of Research and Implementation Programs, CC 204A
- **873** National Transportation Career Pathways Initiative Stakeholder Engagement: Scoping Transformative Technologies, CC 204B
- **874** Implications of Technological and Societal Changes for Air Quality Policy and Regulations: Are Our Analysis Tools Adequate?, CC 209B
- **875** Innovative Uses of Traffic Data for Air Quality and Noise Analysis, CC 209C
- **876** On the Road with Alternative Fuels: Progress in Deploying New Vehicle and Fueling Infrastructure, CC 209A
- **877** Modeling and Simulation for Design and Evaluation of Roadside Safety Hardware, CC 206
- **878** Pavement Performance Data Analysis, CC 207A
- **879** Balancing Durability and Safe Function in Dense-Graded Asphalt Pavements, CC 202A
- **880** Crowd Data, Simulation, Modeling, and Management, CC 101
- **881** Vision Zero Evaluation Workshop, CC 102B

**Meetings**

7:30 a.m.–11:30 a.m.

- **Design and Construction Group Executive Board** (by invitation), MM Liberty I (M4)

8:00 a.m.–noon

- **Challenges and Opportunities of Road Vehicle Automation, AHB30(1), Joint Subcommittee of AHB30, AHB15, CC Salon C**
- **Highway Safety Performance Committee, MM Liberty K (M4)**
- **TRB Executive Committee** (by invitation), MM Liberty LM (M4)

Mark Your Calendar!

**TRB 98th Annual Meeting**

January 13–17, 2019

Walter E. Washington Convention Center

Washington, D.C.
Committee Meetings

Meetings are listed by organization number. Meetings designated “by invitation” are executive sessions and attendance is restricted. Visitors are welcome at other meetings at the discretion of the chair.

Executive Committee

TRB Executive Committee  
Malcolm Dougherty, chair, Wednesday, 8:00 a.m.–11:45 a.m. and 2:30 p.m.–6:00 p.m. (by invitation), MM Liberty LM (M4)

TRB Executive Committee  
Malcolm Dougherty, chair, Thursday, 8:00 a.m.–noon (by invitation), MM Liberty LM (M4)

TRB Centennial Task Force, E0002T  
Sandra Larson, chair, Saturday, 3:30 p.m.–5:00 p.m. (by invitation), MM Liberty I (M4)

Resilience and Sustainability Task Force, E0003T  
Victoria Arroyo, chair, Sunday, Noon–1:30 p.m. (by invitation), MM Scarlet Oak (Mezz)

Subcommittee on International Activities, E0004  
Mary Brooks, chair, Monday, 6:00 p.m.–7:30 p.m. (by invitation), MM Farragut North (M3)

Technical Activities Council

Hyun-A Park, chair, Sunday, 8:00 a.m.–noon (by invitation), MM Cherry Blossom (Mezz)

Hyun-A Park, chair, Sunday, Noon–2:00 p.m. (by invitation), MM Magnolia (Mezz)

Chairs Networking Session  
Hyun-A Park, chair, Monday, 7:30 p.m.–9:30 p.m. (by invitation), MM Liberty L (M4)

TRB State Representatives and State Department of Transportation Chief Executive Officers’ Lunch  
Hyun-A Park, chair, Sunday, Noon–2:00 p.m. (by invitation), MM Marquis Ballroom Salon 6 (M2)

Committee Communication Coordinators Council  
Mia Zmud and Stephanie Camay, cochairs, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 3 (M2)

International Cooperation Committee  
O. A. Ehlman and George Giannopoulos, cochairs, Tuesday, 8:00 a.m.–noon, MM Independence C (M4)

Mainstreaming International Perspectives and Promoting International Networking, Cooperation, and Collaboration Subcommittee, A0010(1)  
John Munro, Barbara Lenz, Tuesday, 3:45 p.m.–5:30 p.m., MM Liberty K (M4)

International Research Needs Subcommittee, A0010(2)  
Dario Menichetti and Jorge Prozzi, cochairs, Monday, 6:00 p.m.–7:30 p.m., MM Independence B (M4)

ECRTI/TRB Action Plan Review Subcommittee, A0010(4)  
Angel Aparicio and George Giannopoulos, cochairs, Monday, 1:30 p.m.–5:30 p.m., MM Independence C (M4)

Climate Change and Energy Task Force  
Mark Abkowitz, chair, Monday, 8:00 a.m.–noon, MM Independence B (M4)

Data for Decisions and Performance Measures Task Force  
Joseph Schofer, chair, Monday, 1:30 p.m.–5:30 p.m., MM Liberty P (M4)

Young Members Council  
Bevan Kirley, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 17 (M2)

Planning and Environment Group Young Members Council, AD000(1)  
Shana Johnson, Eduardo Maeyama, Tuesday, 3:45 p.m.–5:30 p.m., MM Independence A (M4)

Design and Construction Group Younger Members Subcommittee, AF000(2)  
Pete Jenior, chair, Sunday, 4:00 p.m.–5:30 p.m., MM Cherry Blossom (Mezz)

Young Members Council—Aviation, AV000(1)  
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

TRR Review Advisory Board  
Patricia Hu and Thomas Kazmierowski, cochairs, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 16 (M2)

Policy and Organization Group

Policy and Organization Group Executive Board  
Joseph Schofer, chair, Monday, 7:00 a.m.–8:00 a.m. (by invitation), MM Gallery Place (M3)

Section Leaders Discussion  
Joseph Schofer, chair, Wednesday, 10:15 a.m.–noon, MM Mint (M4)

Knowledge Management Task Force  
Frances Harrison, chair, Alexander Linthicum, Wednesday, 8:00 a.m.–noon, MM Liberty N (M4)

Value of Transportation Infrastructure Task Force  
Paul Bingham and Mary Lynn Tischer, cochairs, Wednesday, 2:30 p.m.–6:00 p.m. (by invitation), MM Liberty J (M4)

Management and Leadership Section

Management and Leadership Section Executive Board  
Kathryn Zimmerman, chair, Tuesday, 12:15 p.m.–1:15 p.m. (by invitation), MM Gallery Place (M3)

Strategic Management Committee  
Andrea d’Amato, chair, Wednesday, 8:00 a.m.–noon, MM Liberty K (M4)

Management and Productivity Committee  
Susanna Hughes-Reck, chair, Michael Nesbitt, Monday, 8:00 a.m.–9:45 a.m., MM Liberty K (M4)

Performance Measurement Committee  
Mara Campbell, chair, Tuesday, 8:00 a.m.–noon, MM Liberty L (M4)

Transportation Asset Management Committee  
Timothy Henkel, chair, Monday, 1:30 p.m.–5:30 p.m., MM Liberty L (M4)

AASHTO Asset Management Subcommittee  
Timothy Henkel, chair, Monday, 10:15 a.m.–noon, MM Liberty P (M4)

Asset Management Education Subcommittee, ABC00(3)  
Gerardo Flintsch, Susan Tighe, Wednesday, 8:00 a.m.–9:45 a.m., MM Congress (M4)

12th National Conference on Transportation Asset Management Planning Committee  
Laura Mester, chair, Monday, 12:15 p.m.–1:15 p.m. (by invitation), MM Gallery Place (M3)

Transportation Policy Section

Transportation Policy Section Executive Board  
Mark Muriello, Sunday, Noon–1:30 p.m. (by invitation), MM Gallery Place (M3)
Committee Meetings (Continued)

Revenue and Finance Committee
Thomas Boast, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Liberty M (M4)

Public–Private Partnerships Subcommittee, ABE10(1)
Nicholas Farber, chair, Monday, 1:30 p.m.–3:15 p.m., MM Liberty I (M4)

Revenue and Finance Research Subcommittee, ABE10(3)
Ronald Davis and Nicolas Norboge, cochairs, Monday, 8:00 a.m.–9:45 a.m., MM Liberty I (M4)

2019 International Transportation Finance Conference Subcommittee, ABE10(7)
Adrian Moore, Suzanne Sale, Monday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 16 (M2)

Mileage-Based User Fees, ABE25(4), Joint Subcommittee of ABE25, ABE10
Adrian Moore, chair, Monday, 3:45 p.m.–5:30 p.m., MM Liberty I (M4)

Transportation Economics Committee
Mark Burris, Monday, 10:15 a.m.–noon, MM Liberty K (M4)

Public–Private Partnerships Subcommittee, ABE10(1)
Nicholas Farber, chair, Monday, 1:30 p.m.–3:15 p.m., MM Liberty I (M4)

Congestion Pricing Economics, ABE25(2), Joint Subcommittee of ABE25, ABE20
Darren Timothy, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Liberty I (M4)

Parking Management, ABE50(1), Joint Subcommittee of ABE30, ABE20, ABE25, AP020
Rachel Weinberger, chair, Tuesday, 6:00 p.m.–7:30 p.m., MM Howard University (M1)

Congestion Pricing Committee
Richard Baker, chair, Tuesday, 8:00 a.m.–noon, MM Liberty K (M4)

Congestion Pricing Outreach Subcommittee, ABE25(1)
Colleen Gants, Tuesday, 1:30 p.m.–3:15 p.m., MM Liberty I (M4)

Congestion Pricing Economics, ABE25(2), Joint Subcommittee of ABE25, ABE20
Darren Timothy, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Liberty I (M4)

Multimodal Pricing Implementation, ABE25(3), Joint Subcommittee of ABE25, AHB35
Donald Samdahl, chair, Wednesday, 10:15 a.m.–noon, MM Liberty I (M4)

Mileage-Based User Fees, ABE25(4), Joint Subcommittee of ABE25, ABE10
Adrian Moore, chair, Monday, 3:45 p.m.–5:30 p.m., MM Liberty I (M4)

Congestion Pricing Research Subcommittee, ABE25(6)
Kenneth Buckeye, Monday, 6:00 p.m.–7:30 p.m., MM Liberty K (M4)

Parking Management, ABE50(1), Joint Subcommittee of ABE30, ABE20, ABE25, AP020
Rachel Weinberger, chair, Tuesday, 6:00 p.m.–7:30 p.m., MM Howard University (M1)

Transportation Issues in Major Cities Committee
Rina Cutler, Stephen Buckley, chair, Tuesday, 8:00 a.m.–noon, MM Liberty M (M4)

Transportation Demand Management Committee
William Loudon, chair, Monday, 3:45 p.m.–5:30 p.m., MM Howard University (M1)

Parking Management, ABE50(1), Joint Subcommittee of ABE30, ABE20, ABE25, AP020
Rachel Weinberger, chair, Tuesday, 6:00 p.m.–7:30 p.m., MM Howard University (M1)

Accessible Transportation and Mobility Committee
Joey Goldman and Julie Babinard, cochairs, Monday, 8:00 a.m.–noon, MM Howard University (M1)

Accessible Transportation and Mobility—Policy and Practice Subcommittee, ABE60(1)
Judy Stanley and Mary Crass, cochairs, Wednesday, 10:15 a.m.–noon, MM Howard University (M1)

Accessible Transportation and Mobility—Technology Subcommittee, ABE60(2)
Mohammed Yousuf and Peter Cosyn, cochairs, Wednesday, 2:30 p.m.–4:00 p.m., MM Howard University (M1)

Accessible Transportation and Mobility Research Subcommittee, ABE60(4)
Andrea Lubin and Trevor Hanson, cochairs, Wednesday, 8:00 a.m.–9:45 a.m., MM Howard University (M1)

TRANESE Conference Planning Subcommittee, ABE60(5)
Joey Goldman and Julie Babinard, cochairs, Tuesday, 1:30 p.m.–3:15 p.m., MM Howard University (M1)

Women’s Issues in Transportation Committee
Dawn Spannake, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Liberty K (M4)

2019 Women’s Issues in Transportation Conference Subcommittee, ABE70(1)
Asha Agrawal and Therese McMillan, cochairs, Monday, 6:00 p.m.–7:30 p.m., MM Independence Hall H (M4)

Native American Transportation Issues Committee
Ronald Hall, chair, Monday, 1:30 p.m.–5:30 p.m., MM Liberty M (M4)

Tribal Safety Issues Subcommittee, ABE80(1)
Craig Genzlenger, Monday, 10:15 a.m.–noon, MM Liberty I (M4)

Tribal Historical and Archaelogical Preservation, ABE80(2), Joint Subcommittee of ABE80, ADC50
Stephanie Stoenmer, Monday, 6:00 p.m.–7:30 p.m., MM Liberty M (M4)

Transportation in the Developing Countries Committee
Om Agarwal, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 10 (M2)

Traffic Safety and Traffic Management Subcommittee, ABE90(1)
Xiaoduan Sun, Tuesday, 3:45 p.m.–5:30 p.m., MM Howard University (M1)

Public Transport, BRT, and Innovations Subcommittee, ABE90(2)
Dario Hidalgo, Monday, 3:45 p.m.–5:30 p.m., MM Supreme Court (M4)

Feet First Caucus
V. Setty Pendakur, Robert Schneider, and Ralph Buehler, Wednesday, 6:15 p.m.–7:15 p.m., MM Marquis Ballroom Salon 12 (M2)

Research and Education Section
Research and Education Section Executive Board
Jason Bittner, chair, Tuesday, 6:00 p.m.–7:30 p.m. (by invitation), MM Capitol Hill (M3)

Committee Research Coordinator (CRC) Meeting
Susan Sillick, chair, Sunday, 1:30 p.m.–4:30 p.m., MM Union Station (M3)

Committee Research Coordinator (CRC) Meeting—Advanced
Asha Agrawal and Therese McMillan, cochairs, Monday, 6:00 p.m.–7:30 p.m., MM Independence Hall H (M4)

Accessible Transportation and Mobility Committee
Joey Goldman and Julie Babinard, cochairs, Monday, 8:00 a.m.–noon, MM Howard University (M1)

Accessible Transportation and Mobility—Policy and Practice Subcommittee, ABE60(1)
Judy Stanley and Mary Crass, cochairs, Wednesday, 10:15 a.m.–noon, MM Howard University (M1)

Accessible Transportation and Mobility—Technology Subcommittee, ABE60(2)
Mohammed Yousuf and Peter Cosyn, cochairs, Wednesday, 2:30 p.m.–4:00 p.m., MM Howard University (M1)

Accessible Transportation and Mobility Research Subcommittee, ABE60(4)
Andrea Lubin and Trevor Hanson, cochairs, Wednesday, 8:00 a.m.–9:45 a.m., MM Howard University (M1)

TRANESE Conference Planning Subcommittee, ABE60(5)
Joey Goldman and Julie Babinard, cochairs, Tuesday, 1:30 p.m.–3:15 p.m., MM Howard University (M1)

Women’s Issues in Transportation Committee
Dawn Spannake, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Liberty K (M4)

2019 Women’s Issues in Transportation Conference Subcommittee, ABE70(1)
Asha Agrawal and Therese McMillan, cochairs, Monday, 6:00 p.m.–7:30 p.m., MM Independence Hall H (M4)

Native American Transportation Issues Committee
Ronald Hall, chair, Monday, 1:30 p.m.–5:30 p.m., MM Liberty M (M4)

Tribal Safety Issues Subcommittee, ABE80(1)
Craig Genzlenger, Monday, 10:15 a.m.–noon, MM Liberty I (M4)

Tribal Historical and Archaelogical Preservation, ABE80(2), Joint Subcommittee of ABE80, ADC50
Stephanie Stoenmer, Monday, 6:00 p.m.–7:30 p.m., MM Liberty M (M4)

Transportation in the Developing Countries Committee
Om Agarwal, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 10 (M2)

Traffic Safety and Traffic Management Subcommittee, ABE90(1)
Xiaoduan Sun, Tuesday, 3:45 p.m.–5:30 p.m., MM Howard University (M1)

Public Transport, BRT, and Innovations Subcommittee, ABE90(2)
Dario Hidalgo, Monday, 3:45 p.m.–5:30 p.m., MM Supreme Court (M4)

Feet First Caucus
V. Setty Pendakur, Robert Schneider, and Ralph Buehler, Wednesday, 6:15 p.m.–7:15 p.m., MM Marquis Ballroom Salon 12 (M2)
Committee Meetings (Continued)

Committee Research Coordinator (CRC) Meeting—Advanced
Susan Sillick, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM Marquis Ballroom Salon 3 (M2)

AHEAD of the Curve Subcommittee, ABG20(6)
Ines Aviles-Spadoni, Monday, 7:30 p.m.–9:30 p.m., MM Liberty J (M4)

Transportation Education and Training Committee
Victoria Beale and Diana Long, cochairs, Monday, 1:30 p.m.–5:30 p.m., MM Liberty J (M4)

AHEAD of the Curve Subcommittee, ABG20(6)
Ines Aviles-Spadoni, Monday, 7:30 p.m.–9:30 p.m., MM Liberty J (M4)

Technology Transfer Committee
Patrick Casey, chair, Monday, 8:00 a.m.–noon, MM Liberty J (M4)

Library and Information Science for Transportation Committee
Kendra Levine and Leighton Christiansen, cochairs, Wednesday, 8:00 a.m.–noon, MM Liberty J (M4)

A Tribute to Herbert Levinson
Dennis Hinebaugh, chair, Tuesday, 7:00 p.m.–8:30 p.m., CC 102B

Data and Information Systems Section
ABJ00
Data and Information Systems Section Executive Board
Jack Stickel, chair, Sunday, 6:00 p.m.–9:00 p.m. (by invitation), MM Gallery Place (M3)

Data and Information Systems Research Subcommittee
ABJ00(1)
Frances Harrison, Wednesday, 7:00 a.m.–8:00 a.m. (by invitation), MM Capitol Hill (M3)

Long Distance and Intercity Travel, ABJ10(1), Joint Subcommittee of ABJ10, ABJ00, ABJ40
Lisa Aultman-Hall, Monday, 10:15 a.m.–noon, MM Liberty O (M4)

Transformative Transit Data, AP000(3), Joint Subcommittee of AP000, ABJ00
Catherine Lawson, chair, Monday, 1:30 p.m.–3:15 p.m., MM Treasury (M4)

National Transportation Data Requirements and Programs Committee
Shashi Nambisan, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Liberty O (M4)

Long Distance and Intercity Travel, ABJ10(1), Joint Subcommittee of ABJ10, ABJ00, ABJ40
Lisa Aultman-Hall, Monday, 10:15 a.m.–noon, MM Liberty O (M4)

Statewide Transportation Data and Information Systems Committee
Coco Briseno, chair, Monday, 8:00 a.m.–noon, MM Liberty L (M4)

Safety Data Subcommittee, ABJ20(1)
Nancy Lefler, Tuesday, 12:15 p.m.–1:15 p.m., MM Liberty N (M4)

Bicycle and Pedestrian Data, ABJ35(3), Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40, ANF20, ANF10
Sarah O’Brien, chair, Wednesday, 10:15 a.m.–noon, MM Congress (M4)

Urban Transportation Data and Information Systems Committee
Stacey Brcka, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Liberty L (M4)

Census for Transportation Planning Subcommittee, ABJ30(1)
Clara Reschovsky and Mara Kaminowitz, cochairs, Monday, 12:15 p.m.–1:15 p.m., MM Liberty P (M4)

Urban Big Data Subcommittee, ABJ30(2)
Kristin Tufte and Mehmet Cetin, cochairs, Tuesday, 10:15 a.m.–noon, MM Congress (M4)

Travel Time, Speed, and Reliability, ABJ30(3), Joint Subcommittee of ABJ30, ABJ35
Michael Fontaine, chair, Monday, 8:00 a.m.–9:45 a.m., MM Liberty P (M4)

Bicycle and Pedestrian Data, ABJ35(3), Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40, ANF20, ANF10
Sarah O’Brien, chair, Wednesday, 10:15 a.m.–noon, MM Congress (M4)

Health and Transportation, ADD50(1), Joint Subcommittee of ADD30, ADD40, ADB10, ABJ30
Edward Christopher and Michael Widener, cochairs, Tuesday, 1:30 p.m.–3:15 p.m., MM Independence B (M4)

Highway Traffic Monitoring Committee
Jonathan Regehr and Elizabeth Stolz, cochairs, Monday, 1:30 p.m.–5:30 p.m., MM Liberty N (M4)

Weigh-in-Motion Subcommittee, ABJ35(2)
AnneMarie McDonnell, Monday, 12:15 p.m.–1:15 p.m., MM Liberty L (M4)

Bicycle and Pedestrian Data, ABJ35(3), Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40, ANF20, ANF10
Sarah O’Brien, chair, Wednesday, 10:15 a.m.–noon, MM Congress (M4)

Travel Survey Methods Committee
Rebekah Straub Anderson, chair, Wednesday, 12:15 p.m.–4:00 p.m., MM Archives (M4)

International Transportation Survey Conferences Steering Committee
Catherine Morency, Wednesday, 4:30 p.m.–6:00 p.m., MM Archives (M4)

Household Travel Surveys Subcommittee, ABJ40(1)
Stacey Bricka, Jimmy Armoogum, Tuesday, 7:00 a.m.–8:00 a.m., MM Liberty L (M4)

Freight Surveys Subcommittee, ABJ40(2)
Miguel Jaller, Tuesday, 12:15 p.m.–1:15 p.m., MM Liberty O (M4)

Stated Response Surveys Subcommittee, ABJ40(3)
Eric Molin, John Rose, Wednesday, 10:15 a.m.–noon, MM Liberty O (M4)

New Technologies Subcommittee, ABJ40(4)
Abololaz Mohammadzadeh, Elizabeth Greene, Monday, 3:45 p.m.–5:30 p.m., MM Liberty O (M4)

Transit Surveys Subcommittee, ABJ40(6)
Mark McCourt, Kevin Tierney, Monday, 12:15 p.m.–1:15 p.m., MM Liberty O (M4)

Long Distance and Intercity Travel, ABJ10(1), Joint Subcommittee of ABJ10, ABJ00, ABJ40
Lisa Aultman-Hall, Monday, 10:15 a.m.–noon, MM Liberty O (M4)

Statewide Transportation Data and Information Systems Committee
Coco Briseno, chair, Monday, 8:00 a.m.–noon, MM Liberty L (M4)

Safety Data Subcommittee, ABJ20(1)
Nancy Lefler, Tuesday, 12:15 p.m.–1:15 p.m., MM Liberty N (M4)

Bicycle and Pedestrian Data, ABJ35(3), Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40, ANF20, ANF10
Sarah O’Brien, chair, Wednesday, 10:15 a.m.–noon, MM Congress (M4)

Task Force on Understanding New Directions for the National Household Travel Survey Task Force
Krishnan Viswanathan, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Liberty O (M4)

2018 NHTS Workshop Planning Committee
Lisa Aultman-Hall, chair, Tuesday, 3:45 p.m.–5:30 p.m. (by invitation), MM Liberty O (M4)

Information Systems and Technology Committee
Shannon Barnes, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Gallaudet University (M1)
Committee Meetings (Continued)

Information Systems and Technology
Research Subcommittee, ABJ50(2)
Tim Schmidt, chair, Tuesday, 12:15 p.m.—1:15 p.m., MM Liberty L (M4)
Information Systems in Construction Management, AHF10(1), Joint Subcommittee of AHF10, ABJ50
Edward Jaszelski, chair, Monday, 3:45 p.m.—5:30 p.m., MM Magnolia (Mezz)

Task Force on Data Privacy, Security, and Protection Policy
Johanna Zmud, chair, Monday, 1:30 p.m.—3:15 p.m., MM Liberty O (M4)

Geographic Information Science and Applications Committee
Chad Baker, chair, Tuesday, 8:00 a.m.—noon, MM Liberty O (M4)

Aviation Geographic Information Systems and Data, AV070(1), Joint Subcommittee of AV070, ABJ60
Mark Ricketson and Randall Murphy, cochairs, Tuesday, 8:00 a.m.—9:45 a.m., MM Chinatown (M3)

Artificial Intelligence and Advanced Computing Applications Committee
Sheif Ishak, chair, Adel Sadek, Tuesday, 8:00 a.m.—noon, MM Liberty N (M4)

Artificial Intelligence and Advanced Computing Research Subcommittee, ABJ70(1)
Yunlong Zhang, Tuesday, 7:00 a.m.—8:00 a.m., MM Liberty N (M4)

Statistical Methodology Committee
Linda Boyle, chair, Monday, 1:30 p.m.—3:15 p.m., MM Supreme Court (M4)

Freight Transportation Data Committee
Donald Ludlow, chair, Alison Conway, Monday, 7:30 p.m.—9:30 p.m., MM Capitol (M4)

National Transportation Library Freight Data
Dictionary: Freight Data User Forum
Donald Ludlow, chair, Wednesday, 6:00 p.m.—7:30 p.m. (by invitation), CC 140B

Task Force on Understanding Big Data in Freight Transportation
Donald Ludlow, chair, Tuesday, 3:45 p.m.—5:30 p.m., MM Woodley Park (M3)

Visualization in Transportation Committee
Patricia Hu and Michael Pack, cochairs, Tuesday, 1:30 p.m.—5:00 p.m., MM Supreme Court (M4)

Civil Integrated Management (CIM) Subcommittee, ABJ95(1)
Charles Hixon and Kevin Gilson, cochairs, Monday, 10:15 a.m.—noon, MM Liberty N (M4)

System Performance Subcommittee, ABJ95(2)
Charles Lattimer, chair, Tuesday, 12:15 p.m.—1:15 p.m., MM Supreme Court (M4)

Gaming and Participatory Simulation Subcommittee, ABJ95(3)
Sebastiaan Meijer, Monday, 12:15 p.m.—1:15 p.m., MM Liberty N (M4)

Transportation Systems Resilience Section
Transportation Systems Resilience Section Executive Board
Thomas Wakeman, chair, John Contestabile, Tuesday, 7:00 a.m.—8:00 a.m. (by invitation), MM Farragut North (M3)

Critical Transportation Infrastructure Protection Committee
Laurel Radow, chair, Monday, 8:00 a.m.—noon, MM Liberty M (M4)

Physical Security Subcommittee, ABR10(3)
Rae Zimmerman, Monday, 1:30 p.m.—3:15 p.m., MM Howard University (M1)

Cyber Security Subcommittee, ABR10(7)
Michael Dinning, chair, Tuesday, 8:00 a.m.—9:45 a.m., MM Liberty I (M4)

Supply Chain Security Subcommittee, ABR10(8)
Maria Burns, chair, Tuesday, 10:15 a.m.—noon, MM Liberty I (M4)

2018 Transportation Resilience Planning Meeting Subcommittee, ABR10(9)
Laurel Radow, chair, Dana Hendrix, Monday, 6:00 p.m.—7:30 p.m. (by invitation), MM Liberty I (M4)

Logistics of Disaster and Business Continuity Committee
Anne Strauss-Wieder, chair, Monday, 1:30 p.m.—3:15 p.m., MM Liberty K (M4)
TRB Collaboration: Transportation Equity, Planning, and Disaster Preparedness
Shari Schafleit, Wednesday, 2:30 p.m.—4:00 p.m., MM Liberty K (M4)

Emergency Evacuations Committee
Brian Wolshon, chair, Monday, 3:45 p.m.—5:30 p.m., MM Liberty K (M4)

Planning and Environment Group
Planning and Environment Group Executive Board
Ram Pendyala, chair, Tuesday, 6:00 p.m.—7:30 p.m. (by invitation), MM Farragut North (M3)

Planning and Environment Group Young Members Council, AD000(1)
Shana Johnson, Eduardo Maeyama, Tuesday, 3:45 p.m.—5:30 p.m., MM Independence A (M4)

Transportation System Policy, Planning, and Process Section
Transportation System Policy, Planning, and Process Section Executive Board
Elizabeth Rushley, chair, Sunday, 5:30 p.m.—7:30 p.m. (by invitation), MM Farragut North (M3)

Statewide Multimodal Transportation Planning Committee
Jerri Bohard, chair, Tuesday, 8:00 a.m.—noon, MM Independence D (M4)

Statewide Travel Demand Forecasting, ADA10(2), Joint Subcommittee of ADA10, ADB40
Niles Bostrom and Phillip Mescher, cochairs, Monday, 10:15 a.m.—noon, MM Monument (M4)

Critical Issues in Transportation Planning Subcommittee, ADA10(3)
Mark Nelson, chair, Monday, 8:00 a.m.—9:45 a.m., MM Independence A (M4)

Metropolitan Policy, Planning, and Processes Committee
Robert Hazlett, chair, Wednesday, 8:00 a.m.—noon, MM Monument (M4)

Mega-Regions Subcommittee, ADA20(1)
Frederick Duca, chair, Tuesday, 1:30 p.m.—3:15 p.m., MM Monument (M4)

Transportation in Military Communities, ADA20(2), Joint Subcommittee of ADA20, ATO35, AP055
Corey Hull, Monday, 3:45 p.m.—5:30 p.m., MM Independence H (M4)

Transportation Planning for Small and Medium-Sized Communities Committee
Jerry Everett, chair, Tuesday, 1:30 p.m.—5:30 p.m., MM Independence D (M4)
Committee Meetings (Continued)

Planning for the Conference on Small and Medium-Sized Communities Subcommittee, ADA30(1)
William Frawley, chair, Sunday, 9:00 a.m.–5:00 p.m., MM Independence B (M4)

Transportation Needs of National Parks and Public Lands Committee
Steven Suder, chair, Monday, 8:00 a.m.–noon, MM Independence D (M4)

Transportation Programming and Investment Decision-Making Committee
J. Carpenter, chair, Monday, 1:30 p.m.–5:30 p.m., MM Independence D (M4)

Public Involvement in Transportation Committee
Claudia Bilotto, chair, Monday, 1:30 p.m.–5:30 p.m., MM Monument (M4)

Community Impact Assessment, ADD20(1), Joint Subcommittee of ADD20, ADA60
Veronica Murphy, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Independence B (M4)

Travel Analysis Methods Section

Travel Analysis Methods Section Executive Board
Chandra Bhat, chair, Wednesday, 12:15 p.m.–2:15 p.m. (by invitation), MM Capitol Hill (M3)

Traveler Behavior and Values Committee
Abolfazl Mohammadian, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Independence D (M4)

Time Use and Activity Patterns Subcommittee, ADB10(1)
Juan Carrasco and Karthik Konduri, cochairs, Monday, 10:15 a.m.–noon, MM Independence H (M4)

Route Choice and Spatio-Temporal Behavior, ADB10(2), Joint Subcommittee of ADB10, ADB30
Song Gao, chair, Monday, 8:00 a.m.–9:45 a.m., MM Independence E (M4)

International Travel Behavior Subcommittee, ADB10(3)
Patricia Mokhtarian, chair, Monday, 1:30 p.m.–3:15 p.m., MM Independence A (M4)

Behavioral Processes: Qualitative and Quantitative Methods Subcommittee, ADB10(4)
Kathleen Deutsch-Burgner, Florida Di Cimmio, Tuesday, 8:00 a.m.–9:45 a.m., MM Independence A (M4)

World Society for Transport and Land Use Research Conference Planning Subcommittee, ADB10(5)
Corinne Mulley, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Independence A (M4)

Health and Transportation, ADD50(1), Joint Subcommittee of ADD50, ADD40, ADB10, AB10, ABJ30
Edward Christopher and Michael Widener, cochairs, Tuesday, 1:30 p.m.–3:15 p.m., MM Independence B (M4)

Effects of Information and Communication Technologies on Travel Choices Committee
Sivaramakrishnan Srinivasan, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Monument (M4)

Transportation Network Modeling Committee
Elise Miller-Hooks, chair, Wednesday, 8:00 a.m.–noon, MM Independence D (M4)

Transit, Freight, and Logistics Modeling Subcommittee, ADB30(1)
Stephen Boyles, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Independence H (M4)

Network Equilibrium Modeling Subcommittee, ADB30(2)
Xuesong Zhou, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Independence A (M4)

Network Models in Practice Subcommittee, ADB30(4)
Xuesong Zhou, Tuesday, 3:45 p.m.–5:30 p.m., MM Monument (M4)

Route Choice and Spatio-Temporal Behavior, ADB10(2), Joint Subcommittee of ADB10, ADB30
Song Gao, chair, Monday, 8:00 a.m.–9:45 a.m., MM Independence E (M4)

Traffic Simulation Models, AHB45(1), Joint Subcommittee of AHB45, AHB40, AHB23, AHB20, ADB30, AHB53, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Transportation Demand Forecasting Committee
Joan Walker, chair, Tuesday, 10:15 a.m.–noon, MM Monument (M4)

Emerging Methods in Demand Forecasting Subcommittee, ADB40(1)
Amanda Stathopoulos, chair, Monday, 10:15 a.m.–noon, MM Independence A (M4)

Integrated Transportation and Land Use Modeling, ADB40(2), Joint Subcommittee of ADB40, ADB30
Abdul Pinjari, Anand Gopal, Monday, 3:45 p.m.–5:30 p.m., MM Independence A (M4)

Statewide Travel Demand Forecasting, ADA10(2), Joint Subcommittee of ADA10, ADB40
Niels Bostrom and Philip Mescher, cochairs, Monday, 10:15 a.m.–noon, MM Monument (M4)

Travel Forecasting Resources Special Committee
Rick Donnelly and Rolf Moeckel, cochairs, Monday, 8:00 a.m.–9:45 a.m., MM Monument (M4)

Transportation Planning Applications Committee
Julie Dunbar, chair, Monday, 1:30 p.m.–3:15 p.m., MM Independence H (M4)

CANCLED—Transportation Planning Applications Conference Planning Subcommittee, ADB30(1)
Erin Morrow, chair, Wednesday, 10:15 a.m.–noon, CANCELLED

Environment and Energy Section

Environment and Energy Section Executive Board
Jonathan Rubin, chair, Tuesday, Noon–1:30 p.m. (by invitation), MM Farragut North (M3)

Environmental Analysis in Transportation Committee
Martin Palmer, chair, Wednesday, 8:00 a.m.–noon, MM Independence E (M4)

Environmental Analysis Strategic Issues Subcommittee, ADC10(1)
Richard Record, Monday, 3:45 p.m.–5:30 p.m., MM Independence F (M4)

Transportation and Air Quality Committee
Douglas Eisinger, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM Independence E (M4)

Analysis: Regional and Project-Level Air Quality Innovations and Resources Subcommittee, ADC20(1)
Jenny Narvaez, Tuesday, 10:15 a.m.–noon, MM Independence H (M4)

Technology and Behavior: Emerging Fleet and Travel Impacts on Air Quality Subcommittee, ADC20(2)
Yanzhi Xu, Wednesday, 10:15 a.m.–noon, MM Independence H (M4)

Traffic Simulation Models, AHB45(1), Joint Subcommittee of AHB45, AHB40, AHB23, AHB20, ADB30, AHB53, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Ecology and Transportation Committee
Daniel Smith, chair, Monday, 10:15 a.m.–noon, MM Independence E (M4)
Animal–Vehicle Collisions, ANB20(2), Joint Subcommittee of ANB20, ADC30 Keith Knapp, Fraser Shilling, Tuesday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 14 (M2)

Transportation-Related Noise and Vibration Committee ADC40 Hugh Saurenman, chair, Monday, 1:30 p.m.–3:30 p.m., MM Independence E (M4)

Aviation Noise and Vibration, ADC40(1), Joint Subcommittee of ADC40, AV030 Natalia Sizov, Monday, 8:00 a.m.–9:45 a.m., MM Independence H (M4)

Rail Noise and Vibration, ADC40(2), Joint Subcommittee of ADC40, AR055 Jason Ross, Monday, 10:15 a.m.–noon, MM Independence E (M4)

Highway Noise and Vibration Subcommittee, ADC40(3) Adam Alexander, Monday, 6:00 p.m.–7:30 p.m., MM Independence E (M4)

Historic and Archeological Preservation in Transportation Committee ADC50 Emily Pettis, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Independence E (M4)

Historic and Archeological Preservation Communications Subcommittee, ADC50(1) Hope Luhman, Monday, 1:30 p.m.–3:15 p.m., MM Independence G (M4)

Historic and Archeological Preservation Research Needs Subcommittee, ADC50(2) Antony Opperman, Monday, 3:45 p.m.–5:30 p.m., MM Independence G (M4)

Historic and Archeological Preservation Programs Subcommittee, ADC50(3) Mary Allison Tinsman, Tuesday, 3:45 p.m.–5:30 p.m., MM Independence H (M4)

Tribal Historical and Archeological Preservation, ABE80(2), Joint Subcommittee of ABE80, ADC50 Stephanie Stoerner, Monday, 6:00 p.m.–7:30 p.m., MM Liberty M (M4)

Resource Conservation and Recovery Committee ADC60 Cyrus Parker, chair, Tuesday, 10:15 a.m.–noon, MM Independence E (M4)

Resource Conservation and Recovery Mid-Year Meeting Planning Subcommittee, ADC60(1) Cyrus Parker, chair, Monday, 10:15 a.m.–noon, MM Independence F (M4)

Transportation Infrastructure, Facilities, and Right-of-Ways as Sustainable Resources Subcommittee, ADC60(2) Andrew Alden, chair, Monday, 1:30 p.m.–3:15 p.m., MM Independence F (M4)

Transportation Energy Committee ADC70 Paul Leiby, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Independence E (M4)

International Aspects of Transportation Energy Subcommittee, ADC70(1) Lewis Fulton, Drew Kodjak, Wednesday, 10:15 a.m.–noon, MM Independence G (M4)

Climate Change, ADC70(2), Joint Subcommittee of ADC70, ADC80, ADD40 Richard Baldauf, Tuesday, 6:00 p.m.–7:30 p.m., MM Independence D (M4)

Energy and Demand Implications of Connected and Automated Vehicles, ADC70(3), Joint Subcommittee of ADC70, AHB30 Don Mackenzie, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Independence C (M4)

Alternative Transportation Fuels and Technologies Committee ADC80 Timothy Lipman, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Independence E (M4)

Alternative Aviation Fuels, ADC80(1), Joint Subcommittee of ADC80, AV030 Prem Lobo, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Independence G (M4)

Climate Change, ADC70(2), Joint Subcommittee of ADC70, ADC80, ADD40 Richard Baldauf, Tuesday, 6:00 p.m.–7:30 p.m., MM Independence D (M4)

Social, Economic, and Cultural Issues Section ADD00

Social, Economic, and Cultural Issues Section ADD10

Executive Board Eric Sundquist, chair, Steven Clift, Monday, 12:15 p.m.–1:15 p.m. (by invitation), MM Farragut North (M3)

Transportation and Economic Development Committee Sharada Vadali and Konstantina Gkritza, cochairs, Monday, 8:00 a.m.–noon, MM Independence C (M4)

ITED 2018 Conference Planning Subcommittee, ADD10(1) Konstantina Gkritza and Sharada Vadali, cochairs, Monday, 6:00 p.m.–7:30 p.m., MM Independence C (M4)

Social and Economic Factors of Transportation Committee ADD20

Steven Farber, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Independence B (M4)

Community Impact Assessment, ADD20(1), Joint Subcommittee of ADD20, ADA60 Veronica Murphy, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Independence B (M4)

Social and Economic Factors Research Subcommittee, ADD20(2) Steven Farber, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Independence A (M4)

Transportation and Land Development Committee ADD30

John Renne, chair, Monday, 3:45 p.m.–5:30 p.m., MM Independence B (M4)

Transportation and Land Development Research Subcommittee, ADD30(1) Erick Guerra, Wednesday, 2:30 p.m.–4:00 p.m., MM Independence B (M4)

Integrated Transportation and Land Use Modeling, ADB40(2), Joint Subcommittee of ADB40, ADD30 Abdul Pinjari, Anand Gopal, Monday, 3:45 p.m.–5:30 p.m., MM Independence A (M4)

Transportation and Sustainability Committee ADD40

Timothy Sexton, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Independence C (M4)

Sustainability Measurement Subcommittee, ADD40(1) Dan Hardy, chair, Monday, 1:30 p.m.–3:15 p.m., MM Independence B (M4)

Sustainability Research Subcommittee, ADD40(2) Ralph Hall, Seth Stark, Wednesday, 10:15 a.m.–noon, MM Independence B (M4)

Climate Change, ADC70(2), Joint Subcommittee of ADC70, ADC80, ADD40 Richard Baldauf, Tuesday, 6:00 p.m.–7:30 p.m., MM Independence D (M4)

Health and Transportation, ADD50(1), Joint Subcommittee of ADD50, ADD40, ADB10, ABJ30 Edward Christopher and Michael Widener, cochairs, Tuesday, 1:30 p.m.–3:15 p.m., MM Independence B (M4)

TRB Collaboration: Transportation Equity, Planning, and Disaster Preparedness Sharri Schaflein, Wednesday, 2:30 p.m.–4:00 p.m., MM Liberty K (M4)
Committee Meetings (Continued)

Environmental Justice in Transportation Committee
Gloria Jeff, chair, Tracee Strum-Gilliam, Tuesday, 8:00 a.m.–noon, MM Independence B (M4)
Health and Transportation, ADD50(1), Joint Subcommittee of ADD50, ADD40, ADB10, ABJ30
Edward Christopher and Michael Widener, co-chairs, Tuesday, 1:30 p.m.–3:15 p.m., MM Independence B (M4)
TRB Collaboration: Transportation Equity, Planning, and Disaster Preparedness
Shari Schaflein, Wednesday, 2:30 p.m.–4:00 p.m., MM Liberty K (M4)
Task Force on Arterials and Public Health
Edward Christopher, chair, Wednesday, 8:00 a.m.–noon, MM Independence C (M4)

Design and Construction Group
Design and Construction Group Leadership Reception
D. Stephen Lane, chair, Sunday, 5:30 p.m.–7:00 p.m.
(by invitation), MM Marquis Ballroom Salon 6 (M2)
Design and Construction Group Executive Board
D. Stephen Lane, chair, Thursday, 7:30 a.m.–11:30 a.m.
(by invitation), MM Liberty 1 (M4)
Climate Change, Energy, and Sustainability on Transportation Infrastructure Subcommittee, AF000(1)
Marie Venner, Monday, 3:45 p.m.–5:30 p.m., MM Dogwood (Mezz)
Design and Construction Group Younger Members Subcommittee, AF000(2)
Pete Jenior, chair, Sunday, 4:00 p.m.–5:30 p.m., MM Cherry Blossom (Mezz)

Design Section
Design Section Executive Board
Brian Ray, chair, Monday, 5:30 p.m.–7:30 p.m.
(by invitation), MM Marquis Ballroom Salon 3 (M2)
Context Sensitive Solutions Subcommittee, AFB000(1)
Faisal Hameed, Tuesday, 7:30 p.m.–10:00 p.m., MM Magnolia (Mezz)
Geometric Design Committee
Eric Donnell, chair, Monday, 1:30 p.m.–3:30 p.m., MM Marquis Ballroom Salon 3 (M2)
Geometric Design Technical and Research Subcommittee, AFB10(1)
Hermanus Steyn, Brian Toombs, Monday, 8:00 a.m.–9:45 a.m., MM Magnolia (Mezz)
Geometric Design Business Subcommittee, AFB10(2)
David Wolf, Monday, 10:15 a.m.–noon, MM Dogwood (Mezz)
Intersections, AHB65(1), Joint Subcommittee of AHB65, AFB10, AFB70, ANB20
Gilbert Chlewicki, Jonathan Soika, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 9 (M2)
Roadside Safety Design Committee
Roger Bligh, chair, Monday, 8:00 a.m.–noon, MM Georgetown University (M1)
Roadside Safety Design Computational Mechanics Subcommittee, AFB20(1)
Nauman Sheikh, Monday, 3:45 p.m.–5:30 p.m., MM Cherry Blossom (Mezz)
Roadside Safety Design International Research Activities Subcommittee, AFB20(2)
Michael Drezens and Francesca La Torre, co-chairs, Tuesday, 7:30 p.m.–10:00 p.m., MM Georgetown University (M1)
Positive Protection in Work Zones, AHB55(1), Joint Subcommittee of AHB55, AFB20, AFH10
Melissa Finley, chair, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 17 (M2)
Roadside Safety Data Needs and Applications
Christine Carrigan, Wednesday, 8:00 a.m.–9:45 a.m., MM Silver Linen (Mezz)
Low-Volume Roads Committee
David Jones, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM University of DC (M1)
Low-Volume Roads Conference Planning Subcommittee, AFB30(1)
David Jones, chair, Tuesday, 10:15 a.m.–noon, MM Gallaudet University (M1)
Rural Road Safety Policy, Programming, and Implementation, ANB10(7), Joint Subcommittee of ANB10, AFB30, ANB20
Keith Knapp, Joseph Marek, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 7 (M2)
Landscape and Environmental Design Committee
Keith Robinson, chair, Tuesday, 6:00 p.m.–9:30 p.m., MM Tulip (Mezz)
Hydrology and Hydraulics Committee
Beatrice Hunt, chair, Tuesday, 6:00 p.m.–9:30 p.m., MM George Washington University (M1)
Hydrology Subcommittee, AFB60(1)
George Herrmann, chair, Monday, 3:45 p.m.–5:30 p.m., MM Catholic University (M1)
Hydraulics Subcommittee, AFB60(2)
John Hunt, chair, Wednesday, 10:15 a.m.–noon, MM Catholic University (M1)
Stormwater Committee
Scott Taylor, chair, Monday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 1 (M2)
Utilities Committee
Cesar Quiroga, chair, Wednesday, 8:00 a.m.–noon, MM Cherry Blossom (Mezz)
Geospatial Data Acquisition Technologies in Design and Construction Committee
L. Bradley Foltz, chair, Tuesday, 8:00 a.m.–noon, MM Scarlet Oak (Mezz)
Geospatial Control Subcommittee, AFB80(1)
Michael Dennis, chair, Monday, 3:45 p.m.–5:30 p.m., MM Gallaudet University (M1)
Geospatial Data Acquisition Using Small Unmanned Aerial Systems Subcommittee, AFB80(2)
Curtis Clabaugh, chair, Monday, 1:30 p.m.–3:15 p.m., MM Gallaudet University (M1)

Pavements Section
Pavements Section Executive Board
Bouzid Choubane, chair, Wednesday, 5:30 p.m.–7:30 p.m.
(by invitation), MM Tulip (Mezz)
Pavement Materials and the Urban Climate Subcommittee, AFD00(2)
Robert Hyman, chair, Monday, 10:15 a.m.–noon, MM Gallaudet University (M1)
Pavement Management Systems Committee
Edgardo Block, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM Georgetown University (M1)
Pavement Management Systems in Local Governments Subcommittee, AFD10(1)
Sui Tan, Wednesday, 8:00 a.m.–9:45 a.m., MM Tulip (Mezz)
Pavement Management Systems for Airports Subcommittee, AFD10(2)
Leanne Whiteley-Lagace, Wednesday, 10:15 a.m.–noon, MM Tulip (Mezz)
Committees

**Committee Meetings (Continued)**

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<thead>
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<th>Committee</th>
<th>Room</th>
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<tr>
<td><strong>Pavement Management Systems International Conferences Subcommittee, AFD10(3)</strong></td>
<td>MM Silver Linden (Mezz)</td>
<td>Monday, 7:30 p.m.–10:00 p.m., MM Marquis Ballroom Salon 2 (M2)</td>
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<tr>
<td>Judith Corley-Lay, chair, Sunday, 1:30 p.m.–4:30 p.m., MM Dogwood (Mezz)</td>
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<tr>
<td><strong>Pavement Condition Evaluation Committee</strong></td>
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<tr>
<td>Jonathan Groeger, chair, Monday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 2 (M2)</td>
<td>AFD20(1)</td>
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<tr>
<td>Computer Image Technology for Pavement Evaluation Subcommittee, AFD20(1)</td>
<td>Hosin Lee, Monday, 8:00 a.m.–9:45 a.m., MM Gallaudet University (M1)</td>
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<tr>
<td><strong>General and Emerging Pavement Design Committee</strong></td>
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<tr>
<td>Gerardo Flintsch, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 1 (M2)</td>
<td>AFD30</td>
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<tr>
<td>Interlayer Systems to Control Reflective Cracking Subcommittee, AFD30(1)</td>
<td>John Donahue, chair, Monday, 1:30 p.m.–3:15 p.m., MM Catholic University (M1)</td>
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<tr>
<td><strong>Sustainable Pavements Subcommittee, AFD30(2)</strong></td>
<td>Filippo Giustozzi, chair, Tuesday, 7:30 p.m.–10:00 p.m., MM University of DC (M1)</td>
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<td><strong>Full-Scale Accelerated Pavement Testing Committee</strong></td>
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<tr>
<td>Benjamin Worel, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 1 (M2)</td>
<td>AFD40</td>
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<tr>
<td>Accelerated Pavement Testing International Conferences Subcommittee, AFD40(1)</td>
<td>Luis Loria-Salazar, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Scarlet Oak (Mezz)</td>
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<tr>
<td>Accelerated Pavement Testing International Alliance Subcommittee, AFD40(2)</td>
<td>Louw du Plessis, Raymond Powell, Tuesday, 3:45 p.m.–5:30 p.m., MM Scarlet Oak (Mezz)</td>
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<tr>
<td><strong>Design and Rehabilitation of Concrete Pavements Committee</strong></td>
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<tr>
<td>Georgene Geary, chair, Monday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 1 (M2)</td>
<td>AFD50</td>
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<tr>
<td>Advanced Concrete Pavement Modeling Subcommittee, AFD50(1)</td>
<td>Jellery Roeisler, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Scarlet Oak (Mezz)</td>
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<tr>
<td><strong>Design and Rehabilitation of Asphalt Pavements</strong></td>
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<td>Younger Members Forum</td>
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<tr>
<td>Mena Souluman, Monday, 7:30 p.m.–10:00 p.m., MM Silver Linden (Mezz)</td>
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<tr>
<td><strong>Design and Rehabilitation of Asphalt Pavements Committee</strong></td>
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<tr>
<td>David Timm, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 1 (M2)</td>
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<tr>
<td>Pavement Structural Modeling and Evaluation Committee</td>
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<tr>
<td>Gonzalo Rada, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 2 (M2)</td>
<td>AFD80</td>
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<tr>
<td>Mechanistic Characterization of Pavement Layers Subcommittee, AFD80(1)</td>
<td>Alessandra Bianchini, Wednesday, 10:15 a.m.–noon, MM Silver Linden (Mezz)</td>
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<td><strong>Pavement Surface Properties—Vehicle Interaction Committee</strong></td>
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<tr>
<td>George Chang, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 4 (M2)</td>
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</table>

| Structures Section                                                                                                                        |                     |                 |
| **Structures Section Executive Board**                                                                                                     |                     |                 |
| Barney Martin, chair, Tuesday, 5:30 p.m.–7:30 p.m., (by invitation), MM Gallery Place (Mezz)                                               | AFD90               |                 |
| Structures Collaboration Subcommittee, AFD90(1)                                                                                           |                     |                 |
| Barney Martin, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Silver Linden (Mezz)                                                              |                     |                 |

| Construction Section                                                                                                                      |                     |                 |
| **Construction Section Executive Board**                                                                                                   |                     |                 |
| Thomas Kazmierowski, chair, Tuesday, 6:00 p.m.–9:30 p.m., (by invitation), MM Silver Linden (Mezz)                                         | AFD10               |                 |
| Accelerated Bridge Construction, AFD10(2), Joint Subcommittee of AFD10, AFD10                                                           |                     |                 |
| **General Structures Committee**                                                                                                          |                     |                 |
| Richard Dunne, chair, Monday, 1:30 p.m.–5:30 p.m., MM George Washington University (M1)                                                  | AFD10               |                 |
| **Traffic Structures Subcommittee**                                                                                                        |                     |                 |
| Carl Macchietto, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Magnolia (Mezz)                                                                | AFD10               |                 |
| **Bridge Aesthetics Subcommittee**                                                                                                         |                     |                 |
| Michael Fitzpatrick, chair, Tuesday, 10:15 a.m.–noon, MM Magnolia (Mezz)                                                               | AFD10               |                 |
| **Steel Bridges Committee**                                                                                                               |                     |                 |
| Domenic Coletti, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM George Washington University (M1)                                              | AFD20               |                 |
| Methods for Analyzing Steel Bridges Subcommittee, AFD20(1)                                                                                |                     |                 |
| Wadgy Waasf, Monday, 1:30 p.m.–3:15 p.m., MM Cherry Blossom (Mezz)                                                                       |                     |                 |
| **Concrete Bridges Committee**                                                                                                            |                     |                 |
| Hussam Fallaha, chair, Wednesday, 8:00 a.m.–noon, MM University of DC (M1)                                                              | AFD30               |                 |
| Testing and Evaluation of Transportation Structures Committee                                                                           |                     |                 |
| Sreenivas Alampalli, chair, Tuesday, 8:00 a.m.–noon, MM Georgetown University (M1)                                                       | AFD40               |                 |
| **Pavement Condition Evaluation Committee**                                                                                              |                     |                 |
| Elmer Marx, chair, Monday, 8:00 a.m.–noon, MM George Washington University (M1)                                                          | AFD50               |                 |
| Geoseismic Issues of Bridges and Other Structures, AFD50(1), Joint Committee of AFD50, AFS50(3)                                          |                     |                 |
| Sharid Amiri, Tuesday, 10:15 a.m.–noon, MM Independence G (M4)                                                                           |                     |                 |
| **Tunnels and Underground Structures Committee**                                                                                         |                     |                 |
| Conrad Felice, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM George Washington University (M1)                                               | AFD60               |                 |
| **Culverts and Hydraulic Structures Committee**                                                                                          |                     |                 |
| Jesse Beaver, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 4 (M2)                                                        | AFD70               |                 |
| **Structural Fiber Reinforced Polymers Committee**                                                                                       |                     |                 |
| Wael Zatar, chair, Tuesday, 8:00 a.m.–noon, MM Silver Linden (Mezz)                                                                       | AFD80               |                 |

| **Construction Management Committee**                                                                                                     |                     |                 |
| Paul Goodrum, chair, Monday, 7:30 p.m.–10:00 p.m., MM Marquis Ballroom Salon 1 (M2)                                                       | AFD10               |                 |
| **Information Systems in Construction Management, AFD10(1), Joint Committee of AFD10, ABD30**                                            |                     |                 |
| Edward Jasevski, chair, Monday, 3:45 p.m.–5:30 p.m., MM Magnolia (Mezz)                                                                  |                     |                 |
| Positive Protection in Work Zones, AHB55(1), Joint Committee of AHB55, AFB20, AHD10                                                   |                     |                 |
| Melissa Finley, chair, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 17 (M2)                                                   |                     |                 |

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Committee Meetings (Continued)

Project Delivery Methods Committee
Douglas Gransberg, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 4 (M2)

Quality Assurance Management Committee
Timothy Aschenbrenner, chair, Monday, 7:30 p.m.–10:00 p.m., MM Marquis Ballroom Salon 4 (M2)

Concrete Materials Section Executive Board
Elie Hajj, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM Marquis Ballroom Salon 3 (M2)

Construction of Bridges and Structures Committee
Michael LaViolette, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 4 (M2)

Concrete Pavement Construction and Rehabilitation Committee
Sabrina Garber, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 2 (M2)

Design and Construction of Roller Compacted Concrete Pavements Subcommittee, AFH15
Matthew Singel, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 1 (M2)

Asphalt Pavement Construction and Rehabilitation Committee
Victor Gallivan, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 3 (M2)

Fabrication and Inspection of Metal Structures Committee
Justin Ocel, chair, Monday, 1:30 p.m.–5:30 p.m., MM University of DC (M1)

Disadvantaged Business Enterprises Committee
Joanne Lubart, chair, Monday, 8:00 a.m.–noon, MM Catholic University (M1)

Asphalt Materials Section

Asphalt Materials Section Executive Board
Rebecca McDaniel, chair, Monday, 6:00 p.m.–9:30 p.m. (by invitation), MM Geranium (Mezz)

Asphalt Binders Committee
Darren Hazlett, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 5 (M2)

Non-Binder Components of Asphalt Mixtures Committee
Stacey Dieflenderfer, chair, Monday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 4 (M2)

Surface Requirements of Asphalt Mixtures Committee
Danny Gierhart, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 5 (M2)

Structural Requirements of Asphalt Mixtures Committee
Elie Hajj, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM University of DC (M1)

Advanced Models to Understand Behavior and Performance of Asphalt Mixtures Subcommittee, AFK15
Amit Bhasin, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 5 (M2)

Integration of Asphalt Paving Mixture Characteristics with Flexible Pavement Structural Design Subcommittee, AFK20
Nathan Morian, chair, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 2 (M2)

Concrete Materials Section

Concrete Materials Section Executive Board
Mohammad Khan, chair, Tuesday, Noon–2:00 p.m. (by invitation), MM Geranium (Mezz)

Basic Research and Emerging Technologies Related to Concrete Committee
John Kevern, chair, Wednesday, 8:00 a.m.–noon, MM George Washington University (M1)

Geological and Geoenvironmental Engineering Section Executive Board
Erol Tutumluer, chair, Tuesday, 6:00 p.m.–9:30 p.m. (by invitation), MM Catholic University (M1)

Geotechnical Asset Management, AFP15(1), Joint Subcommittee of AFP00, AF500
Scott Anderson, chair, Monday, 7:30 p.m.–9:30 p.m., MM Dogwood (Mezz)

Engineeering Geology Committee
Lucas Ortiz, chair, Tuesday, 8:00 a.m.–noon, MM Cherry Blossom (Mezz)

Rockfall Management Subcommittee, AF101(1)
Ben Arndt, chair, Sunday, 7:30 p.m.–10:00 p.m., MM Marquis Ballroom Salon 10 (M2)

Advances in Landslides, Analysis, and Control Subcommittee, AF102(2)
Brent Black, chair, Monday, 8:00 a.m.–9:45 a.m., MM Dogwood (Mezz)

Geotechnical Site Characterization Committee
Krystle Pelham, chair, Wednesday, 8:00 a.m.–noon, MM Magnolia (Mezz)

Geophysics Subcommittee, AF201(1)
Benjamin Rivers, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Dogwood (Mezz)

Soil and Rock Properties Committee
Mohammed Mulla, chair, Tuesday, 8:00 a.m.–noon, MM Dogwood (Mezz)

Geo-Environmental Processes Committee
Burak Tanyu, chair, Monday, 6:00 p.m.–9:30 p.m., MM Scarlet Oak (Mezz)

Seasonal Climatic Effects on Transportation Infrastructure Committee
Steve Saboundjian, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Magnolia (Mezz)

Engineering Behavior of Unsaturated Geomaterials Committee
Claudia Zapata, chair, Wednesday, 8:00 a.m.–noon, MM George Washington University (M1)

Aggregates Committee
Andrew Dawson, chair, Monday, 8:00 a.m.–noon, MM Scarlet Oak (Mezz)

Unbound Granular Materials Subcommittee, AF70(1)
Debakanta Mishra, chair, Sunday, 7:30 p.m.–10:00 p.m., MM Dogwood (Mezz)
Geotechnical Engineering Section

Geotechnical Engineering Section Executive Board
Anand Puppala, chair, Monday, 10:15 a.m.–1:15 p.m.
(by invitation), MM Tulp (Mezz)

Geotechnical Asset Management, AFS00
Leslie Jacobson, chair, Monday, 7:30 a.m.–9:30 p.m.,
MM Dogwood (Mezz)

Transportation Earthworks Committee
James Brennan, chair, Monday, 6:00 p.m.–9:30 p.m.,
MM Cherry Blossom (Mezz)

Geotechnical Instrumentation and Modeling Committee
Soheil Nazarian, chair, Tuesday, 1:30 p.m.–5:30 p.m.,
MM Cherry Blossom (Mezz)

Foundations of Bridges and Other Structures Committee
Kenneth Fishman, chair, Monday, 1:30 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 4 (M2)

Geosynthetic Issues of Bridges and Other Structures
AFS30
Sharad Ali, Tuesday, 10:15 a.m.–noon,
MM Independence C (M4)

Subsurface Soil-Structure Interaction Committee
AFS40
Kevin White, chair, Monday, 6:00 p.m.–9:30 p.m.,
MM Marquis Ballroom Salon 3 (M2)

Subsurface Drainage Committee
AFS60
Afzal Habib, chair, Monday, 6:00 p.m.–9:30 p.m.,
MM Marquis Ballroom Salon 15 (M2)

Geosynthetics Committee
AFS70
Jennifer Nicks, chair, Monday, 1:30 p.m.–5:30 p.m.,
MM Silver Linden (Mezz)

Stabilization of Geomaterials and Recycled Materials Committee
AFS80
Robert Parsons, chair, Wednesday, 8:00 a.m.–noon,
MM Dogwood (Mezz)

Operations and Preservation Group

Operations and Preservation Group Executive Board
Peter Briglia, Wednesday, 7:00 a.m.–10:00 a.m.
(by invitation), MM Marquis Ballroom Salon 17 (M2)

Operations and Preservation Group Young Professional Subcommittee
AF000(1)
Nikola Ivanov, chair, Tuesday, Noon–1:30 p.m.,
MM Shaw (M3)

Operations and Preservation and Safety and System Users Groups Leadership Reception
AF010(1)
William Varney, chair, Sunday, 6:00 p.m.–8:00 p.m.
(by invitation), MM Independence C (M4)

Surface Transportation Weather Committee
Kathy Ahlemus, chair, Tuesday, 6:00 p.m.–9:30 p.m.,
MM Marquis Ballroom Salon 2 (M2)

Operations Section

Operations Section Executive Board
Robert Bertini, chair, Monday, Noon–1:30 p.m.
(by invitation), MM LeDroit Park (M3)

Regional Transportation Systems Management and Operations Committee
Leslie Jacobson, chair, Wednesday, 10:15 a.m.–noon and
2:30 p.m.–6:00 p.m., MM Marquis Ballroom Salon 10 (M2)

Joint Meeting of RTSMO Data for Transportation Operations Subcommittee, AHB10(3), and Measuring and Quantifying Performance Subcommittee, AHB10(1)
Nikola Ivanov, Robert Winick, Tuesday, 8:00 a.m.–9:45 a.m.,
MM Marquis Ballroom Salon 13 (M2)

RTSMO Planning for Operations Subcommittee, AHB10(2)
Jocelyn Bauer and Wayne Berman, cochairs, Tuesday,
7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 13 (M2)

RTSMO Sustainability Subcommittee, AHB10(5)
Keith McCabe, Tuesday, 10:15 a.m.–noon and 1:30–
3:15 p.m., MM Marquis Ballroom Salon 13 (M2)

RTSMO Freight Subcommittee, AHB10(6)
Richard Easley, Tuesday, 3:45 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 13 (M2)

Joint Meeting of the RTSMO Subcommittee Chairs and Research Needs Subcommittee, AHB10(7)
Thomas Jacobs, Tuesday, 12:15 p.m.–1:15 p.m.,
MM Marquis Ballroom Salon 13 (M2)

RTSMO Transportation Incident Management Subcommittee, AHB10(8)
Eileen Singleton and Pat Noyes, cochairs, Monday,
7:30 p.m.–10:00 p.m., MM Marquis Ballroom Salon 13 (M2)

RTSMO Regional Highway and Transit Integration Subcommittee, AHB10(1)
Robert Sheehan, Michael Harris, Monday, 1:30 p.m.–
3:15 p.m., MM Marquis Ballroom Salon 13 (M2)

RTSMO Connected and Automated Vehicles Subcommittee, AHB10(12)
Tony Kartofil, Monday, 3:45 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 13 (M2)

Intelligent Transportation Systems Committee
AHB15
Larry Head, Monday, 8:00 a.m.–noon,
MM Marquis Ballroom Salon 5 (M2)

Intelligent Transportation Systems Committee
AHB15
Brian Cronin, Wednesday, 2:30 p.m.–6:00 p.m.,
MM Salon C

Challenges and Opportunities of Road Vehicle Automation, AHB30(1), Joint Subcommittee of AHB30, AHB15
Steven Shladover, Thursday, 8:00 a.m.–noon,
MM Salon C

Human Factors in Road Vehicle Automation, AND10(3), Joint Subcommittee of AND10, AHB15, AHB30
Natasha Merat, Michael Manser, Tuesday, 10:15 a.m.–
noon, MM Marquis Ballroom Salon 7 (M2)

Emerging Ridesharing Solutions, AP020(2), Joint Subcommittee of AP020, AP025, AHB15
Jeffrey Chernick and Prachi Vakharia, cochairs, Wednesday,
10:15 a.m.–noon, MM Chinatown (M3)

Freeway Operations Committee (Part 1 of 2)
AHB20
Jon Odenberger, chair, Tuesday, 8:00 a.m.–noon,
MM Supreme Court (M4)

Freeway Operations Committee (Part 2 of 2)
AHB20
Jon Odenberger, chair, Tuesday, 6:00 p.m.–8:00 p.m.,
MM Marquis Ballroom Salon 10 (M2)

Freeway Management Handbook Subcommittee, AHB20(1)
Joel Marcuson, chair, Sunday, 3:00 p.m.–5:00 p.m.,
MM Marquis Ballroom Salon 1 (M2)

Freeway Simulation Subcommittee, AHB20(2)
Panos Prevedourou, Maria-Ioanna Imprialou, Sunday,
1:30 p.m.–3:00 p.m., MM Marquis Ballroom Salon 1 (M2)

Freeway Operations Research Subcommittee, AHB20(3)
James Colyar, Christopher Poe, Kevin Miller, James
Katsafanas, Sunday, 1:30 p.m.–3:00 p.m., MM Marquis Ballroom Salon 1 (M2)

Freeway Operations Committee Planning and Meetings Subcommittee, AHB20(4)
Jon Odenberger, chair, Sunday, 6:30 p.m.–8:00 p.m.,
MM Marquis Ballroom Salon 1 (M2)
Committee Meetings (Continued)

Active Traffic Management, AHB20(5),
Joint Subcommittee of AHB20, AHB35
Lisa Burgess, Daniel Lukasik, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Managed Lanes Committee
Charles Fuhs and Casey Emoto, cochairs, Wednesday,
8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 10 (M2)

Emerging Freeway Operations Concepts
Subcommittee, AHB20(6)
Phillip Masters, Athena Hutchins, Sunday, 8:00 p.m.–9:00 p.m., MM Marquis Ballroom Salon 1 (M2)

Traffic Simulation Models, AHB45(1),
Joint Subcommittee of AHB45, AHB40, AHB25, AHB20, ADB30, AHB55, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Joint Collaboration and Coordination Meeting of the Freeway Operations and Highway Capacity Committees
Tom Creasey, chair, Monday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 17 (M2)

Traffic Systems Committee
Peter Koonce, chair, Monday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 5 (M2)

Traffic Signal Timing Subcommittee, AHB25(1)
Jim Powell, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 10 (M2)

Traffic Signal Systems Research Subcommittee, AHB25(2)
Aleksandar Stevanovic, Sunday, 8:00 a.m.–9:15 a.m., MM Liberty N (M4)

Simulation of Traffic Signal Systems Subcommittee, AHB25(3)
Brian Park, Sunday, 9:30 a.m.–10:45 a.m., MM Liberty N (M4)

Traffic Signal Systems Technology and Standards Subcommittee, AHB25(4)
Gregory Barlow, Sunday, 11:00 a.m.–12:15 p.m., MM Liberty N (M4)

Multimodal Traffic Signal Systems Subcommittee, AHB25(5)
Kevin Lee, Sunday, 3:15 p.m.–4:15 p.m., MM Liberty N (M4)

Asset Management for Traffic Signal Systems Subcommittee, AHB25(6)
Ali Hajbabaie, Paul Olson, Sunday, 2:00 p.m.–3:00 p.m., MM Liberty N (M4)

Traffic Signal Systems Education Subcommittee, AHB25(7)
Edward Smaglik, Anuj Sharma, Sunday, 4:30 p.m.–5:30 p.m., MM Liberty N (M4)

Traffic Simulation Models, AHB45(1),
Joint Subcommittee of AHB45, AHB40, AHB25, AHB20, ADB30, AHB55, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Vehicle-Highway Automation Committee
Steven Shladover, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 5 (M2)

Challenges and Opportunities of Road Vehicle Automation, AHB30(1), Joint Subcommittee of AHB30, AHB15
Steven Shladover, Thursday, 8:00 a.m.–noon, MM Salon C

Energy and Demand Implications of Connected and Automated Vehicles, ADC70(3), Joint Subcommittee of ADC70, AHB30
Don MacKenzie, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Independence C (M4)

Human Factors in Road Vehicle Automation, AND10(3), Joint Subcommittee of AND10, AHB15, AHB30
Natasha Merat, Michael Manser, Tuesday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 7 (M2)

Managed Lanes Outreach Subcommittee, AHB35(1)
Tim Halle, chair, Tuesday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 17 (M2)

Managed Lanes Research Subcommittee, AHB35(2)
Nicholas Wood, Lee Han, Tuesday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 17 (M2)

Managed Lanes Meeting Planning Subcommittee, AHB35(3)
Lisa Klein, Carlos Campo, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 17 (M2)

Multimodal Pricing Implementation, ABE25(3),
Joint Subcommittee of ABE25, AHB35
Donald Samdahl, chair, Wednesday, 10:15 a.m.–noon, MM Liberty I (M4)

Active Traffic Management, AHB20(5),
Joint Subcommittee of AHB20, AHB35
Lisa Burgess, Daniel Lukasik, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Highway Capacity and Quality of Service Committee
Tom Creasey, chair, Monday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 6 (M2)

HCQS Leadership Subcommittee, AHB40(0.0)
Tom Creasey, chair, Saturday, 11:30 a.m.–1:00 p.m. (by invitation), MM Liberty K (M4)

Traffic Simulation Models, AHB45(1),
Joint Subcommittee of AHB45, AHB40, AHB25, AHB20, ADB30, AHB55, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Joint Collaboration and Coordination Meeting of the Freeway Operations and Highway Capacity Committees
Tom Creasey, chair, Monday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 17 (M2)

Research Workshops for Highway Capacity and Quality of Service Committee
Tom Creasey, chair, Scott Washburn, Yinhai Wang, Saturday, 1:00 p.m.–5:00 p.m., MM Georgetown University (M1)

HCQS Group 1—Administration, AHB40(1.0)
Tom Creasey, chair, Saturday, 1:00 p.m.–5:00 p.m., MM Monument (M4)

HCQS Group 2—Uninterrupted Flow Group Subcommittee, AHB40(2.0)
Bastian Schroeder, Sunday, 8:00 a.m.–noon, MM Monument (M4)

HCQS Group 3—Interrupted Flow Group Subcommittee, AHB40(3.0)
Robert Bryson, Sunday, 8:00 a.m.–noon, MM Supreme Court (M4)

HCQS Group 4—Cross-Cutting Issues, AHB40(4.0)
Paul Ryus, Sunday, 1:00 p.m.–5:00 p.m., MM Supreme Court (M4)

Traffic Flow Theory and Characteristics Committee
Soyooy Ahn, chair, Monday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Traffic Simulation Models, AHB45(1),
Joint Subcommittee of AHB45, AHB40, AHB25, AHB20, ADB30, AHB55, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Crowd Flow Dynamics, Modeling, and Management Subcommittee, AHB45(2)
Serge Hoogendoorn, Shae Zanto, Monday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 6 (M2)

Traffic Flow Modeling for Connected and Automated Vehicles Subcommittee, AHB45(3)
Samer Hamdar, Tuesday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 9 (M2)
Committee Meetings (Continued)

Traffic Control Devices Committee
Paul Carlson and Timothy Gates, co-chairs, Monday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 9 (M2)

Work Zone Traffic Control Committee
Timothy Baughman, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 9 (M2)

Positive Protection in Work Zones, AHB55(1), Joint Subcommittee of AHB55, AFB20, AFH110
Melisa Finley, chair, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 17 (M2)

Traffic Simulation Models, AHB45(1), Joint Subcommittee of AHB45, AHB40, AHB25, AHB20, ADB30, AHB55, ADC20
Mohammed Hadi, Monday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Highway–Rail Grade Crossings Committee
Aemal Khattak, chair, Tuesday, 8:00 a.m.–noon, MM Capitol (M4)

Operational Effects of Geometrics Committee
Marc Butorac, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 6 (M2)

Intersections, AHB65(1), Joint Subcommittee of AHB65, AFB10, AHB70, ANB20
Gilbert Chlewizki, Jonathan Soika, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Performance-Based Analysis Subcommittee, AHB65(3)
Geoffrey Millen, Howard Lubliner, Monday, 9:30 a.m.–11:00 a.m., MM Marquis Ballroom Salon 17 (M2)

Hot Topics for Roadways Subcommittees, AHB65(4)
Ingrid Potts, Larry Sutherland, Monday, 11:00 a.m.–12:30 p.m., MM Marquis Ballroom Salon 17 (M2)

Freeway Safety and Operations Subcommittee, AHB65(5)
Howard Lubliner, Monday, 8:00 a.m.–9:30 a.m., MM Marquis Ballroom Salon 17 (M2)

Traffic Speed and Safety—Cross-Cutting Issues, ANB20(5), Joint Subcommittee of ANB20, AHB65, ANB10
Hillel Bar-Gera, Wednesday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 14 (M2)

Access Management Committee
Marc Butorac, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 9 (M2)

National Conference on Access Management Subcommittee, AHB70(1)
Mike Roach, chair, Tuesday, Noon–1:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Access Management Research Subcommittee, AHB70(2)
Stuart Samberg, Tuesday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 9 (M2)

Access Management Outreach Subcommittee, AHB70(3)
Chris Huffman, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Work Zone Simulation Subcommittee, AHB70(4)
Praveen Edara, Tuesday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 8 (M2)

Intersections, AHB65(1), Joint Subcommittee of AHB65, AFB10, AHB70, ANB20
Gilbert Chlewizki, Jonathan Soika, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Task Force on System Simulation
Calvin Leggett, chair, Tuesday, 8:00 a.m.–noon (by invitation), MM Shaw (M3)

Maintenance and Preservation Section

Maintenance and Preservation Section Executive Board
Max Perchanok, chair, Monday, Noon–1:30 p.m. (by invitation), MM Magnolia (Mezz)

Maintenance and Preservation Section

Communication Coordinators Subcommittee, AHD00(3)
Rob Zilay, Monday, 6:00 p.m.–7:30 p.m., MM Gallaudet University (M4)

Maintenance and Preservation Section Research Coordinators Subcommittee, AHD00(4)
Ehsan Miniaie, Tuesday, 6:00 p.m.–7:30 p.m., MM Liberty J (M4)

Operations and Preservation and Safety and System Users Groups Leadership Reception
William Varneredoe, chair, Sunday, 6:00 p.m.–8:00 p.m. (by invitation), MM Independence C (M4)

Maintenance and Operations Management Committee
Mark Robinson, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 2 (M2)

Environmental Maintenance Subcommittee, AHD10(1)
Marie Venner, Monday, 1:30 p.m.–3:15 p.m., MM Scarlet Oak (Mezz)

Maintenance and Operations Personnel Committee
David Bergner, chair, Tuesday, 8:00 a.m.–noon, MM Catholic University (M1)

Pavement Preservation Committee
Judith Corley-Lay, chair, Tuesday, 8:00 a.m.–noon, MM University of DC (M1)

Pavement Maintenance Committee
Anita Bush, chair, Monday, 8:00 a.m.–noon, MM University of DC (M1)

Sealants and Fillers for Joints and Cracks Committee
Hasan Ozer, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Georgetown University (M1)

Structures Maintenance Committee
George Hearn, chair, Tuesday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 2 (M2)

Underwater Structures Inspection and Maintenance Subcommittee, AHD30(1)
Daniel Stromberg, Monday, 3:45 p.m.–5:30 p.m., MM Scarlet Oak (Mezz)

Bridge Steel Coatings Subcommittee, AHD30(2)
James Ault, Monday, 1:30 p.m.–3:15 p.m., MM Dogwood (Mezz)

Structural Health Monitoring, AHD30(3), Joint Subcommittee of AHD30, AHD35, AFF40
John Duke, Monday, 6:00 p.m.–9:30 p.m., MM Howard University (M1)

Bridge Management Committee
Basak Bektas, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 3 (M2)

Safety and Security of Bridges and Structures Subcommittee, AHD35(1)
Bojidar Yanev, chair, Tuesday, 6:00 p.m.–9:30 p.m., MM Scarlet Oak (Mezz)

Bridge Life-Cycle Cost Analysis Subcommittee, AHD35(2)
Paul Thompson, Tuesday, 6:00 p.m.–9:30 p.m., MM Dogwood (Mezz)

Structural Health Monitoring, AHD30(3), Joint Subcommittee of AHD30, AHD35, AFF40
John Duke, Monday, 6:00 p.m.–9:30 p.m., MM Howard University (M1)

Bridge Preservation Committee
Michael Johnsson, chair, Monday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 2 (M2)

Polymer Concretes, Adhesives, and Sealers Committee
Michael Stenko, chair, Monday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 3 (M2)

Corrosion Committee
David Meggers, chair, Wednesday, 8:00 a.m.–noon, MM Scarlet Oak (Mezz)
Committee Meetings (Continued)

Roadside Maintenance Operations Committee
John Rowen, chair, Monday, 8:00 a.m.–noon, MM Cherry Blossom (Mezz)

Signing and Marking Materials Committee
Carmine Dwyer, chair, Monday, 1:30 p.m.–5:30 p.m., MM Georgetown University (M1)

Maintenance Equipment Committee
John Hildreth, chair, Tuesday, 8:00 a.m.–noon, MM George Washington University (M1)

Winter Maintenance Committee
Tina Greenfield, chair, Monday, 6:00 p.m.–9:30 p.m., MM Georgetown University (M1)

Legal Resources Group Executive Board
Fred Wagner, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 15 (M2)

Transportation Law Committee
Marcelle Jones, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 15 (M2)

Transit and Intermodal Transportation Law Committee
Robin Reitzes, chair, Monday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 15 (M2)

Contract Law Committee
Nancy Smith, chair, Tuesday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 15 (M2)

Emerging Technology Law Committee
Bryant Walker Smith, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 15 (M2)

Environmental Issues in Transportation Law Committee
Fred Wagner, chair, Monday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 15 (M2)

Eminent Domain and Land Use Committee
William James, chair, Monday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 15 (M2)

Tort Liability and Risk Management Committee
Jeanne Scherer, chair, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 15 (M2)

Safety and Systems Users Group

Safety and System Users Group Executive Board
David Harkey, chair, Wednesday, 7:00 p.m.–9:00 p.m. (by invitation), MM Marquis Ballroom Salon 14 (M2)

Operations and Preservation and Safety and System Users Groups Leadership Reception
William Varnde, chair, Sunday, 6:00 p.m.–8:00 p.m. (by invitation), MM Independence C (M4)

Safety and System Users Sections Executive Boards
C. Y. David Yang, chair, Michael Griffith, chair, Shawn Turner, chair, Sunday, 7:00 p.m.–9:00 p.m. (by invitation), MM George Washington University (M4)

Transportation Safety Management Committee
Susan Herbel, chair, Wednesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 12 (M2)

Roadway Safety Culture Subcommittee, ANB10(1)
Joseph Marek, Natalie Draisin, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 8 (M2)

Transportation Safety Planning Subcommittee, ANB10(3)
Nicole Waldheim, Tuesday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 15 (M2)

Highway Safety Workforce Development Subcommittee, ANB10(4)
Terecia Wilson, Barbara Harsha, Monday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 7 (M2)

School Transportation Subcommittee, ANB10(6)
Kevin Chang, Tuesday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 14 (M2)

Rural Road Safety Policy, Programming, and Implementation, ANB10(7), Joint Subcommittee of ANB10, AFB30, ANB20
Keith Knapp, Joseph Marek, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 7 (M2)

Global Road Safety Subcommittee, ANB10(8)
Kimberly Koledy, Ofer Greenbeke, Monday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 12 (M2)

Toward Zero Deaths Goal Subcommittee, ANB10(9)
Marie Walsh, Tuesday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 12 (M2)

Traffic Speed and Safety—Cross-Cutting Issues, ANB20(3), Joint Subcommittee of ANB20, AHB65, ANB10
Hillel Bar-Gera, Wednesday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 14 (M2)

Safety Data, Analysis, and Evaluation Committee
ANB20
Kimberly Eccles, Tuesday, 10:15 a.m.–noon, MM Supreme Court (M4)

Future Directions in Safety Analysis, ANB20(1), Joint Subcommittee of ANB20, ANB25
John Ivan, Monday, 8:00 a.m.–9:45 a.m., MM Supreme Court (M4)

Animal–Vehicle Collisions Subcommittee, ANB20(2), Joint Subcommittee of ANB20, ADC30
Keith Knapp, Fraser Shilling, Tuesday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 14 (M2)

Surrogate Measures of Safety Subcommittee, ANB20(3), Nicolas Saumier, Monday, 10:15 a.m.–noon, MM Supreme Court (M4)

Bicycle and Pedestrian Safety Analysis, ANB20(4), Joint Subcommittee of ANB20, ANF10, ANF20, ANB25
Thomas Jonsson, Monday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 14 (M2)

Traffic Speed and Safety—Cross-Cutting Issues, ANB20(3), Joint Subcommittee of ANB20, AHB65, ANB10
Hillel Bar-Gera, Wednesday, 8:00 a.m.–9:45 a.m., MM Marquis Ballroom Salon 14 (M2)

Intersections, AHB65(1), Joint Subcommittee of AHB65, AFB10, AFB70, ANB20
Gilbert Chlewicki, Jonathan Soika, Tuesday, 7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 9 (M2)

Rural Road Safety Policy, Programming, and Implementation, ANB10(7), Joint Subcommittee of ANB10, AFB30, ANB20
Keith Knapp, Joseph Marek, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 7 (M2)

Highway Safety Performance Committee
John Milton, chair, Wednesday, 2:30 p.m.–6:00 p.m., MM Marquis Ballroom Salon 1 (M2)

Highway Safety Performance Committee
John Milton, chair, Thursday, 8:00 a.m.–noon, MM Liberty R (M4)

Highway Safety Performance Policy and Legal Aspects Subcommittee, ANB25(1)
Breland Gowen, Wednesday, 6:15 p.m.–7:15 p.m., MM Marquis Ballroom Salon 16 (M2)

Highway Safety Performance User Liaison and Technology Facilitation Subcommittee, ANB25(3)
Michael Dimaita, Wednesday, 12:15 p.m.–2:15 p.m., MM Marquis Ballroom Salon 12 (M2)

Highway Safety Performance Conferences and Meetings Subcommittee, ANB25(4)
John Nitzel, Wednesday, 12:15 p.m.–7:15 p.m., MM Marquis Ballroom Salon 15 (M2)

Highway Safety Performance International Research Subcommittee, ANB25(5)
Jennifer Ogle, Patrick Hasson, Monday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 16 (M2)
Committee Meetings (Continued)

Future Directions in Safety Analysis, ANB20(1),
Joint Subcommittee of ANB20, ANB25
John Ivan, Monday, 8:00 a.m.–9:45 a.m., MM Supreme Court (M4)
Bicycle and Pedestrian Safety Analysis, ANB20(4),
Joint Subcommittee of ANB20, ANF10, ANF20, ANB25
Thomas Jonsson, Monday, 6:00 p.m.–7:30 p.m.,
MM Marquis Ballroom Salon 14 (M2)
Combined Highway Safety Performance Research
Subcommittees Meeting
Douglas Harwood, John Ivan, Karen Dixon, Wednesday,
7:30 p.m.–9:30 p.m., MM Marquis Ballroom Salon 10 (M2)
Operator Education and Regulation Committee
Bruce Simons-Morton, chair, Tuesday, 1:30 p.m.–3:15 p.m.,
MM Marquis Ballroom Salon 8 (M2)
Young Drivers Subcommittee, ANB30(1)
Robert Foss, Tuesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 14 (M2)
Traffic Law Enforcement Committee
Keith Williams, chair, Monday, 1:30 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 12 (M2)
Emerging Vehicles for Low-Speed Transportation,
ANF20(4), Joint Subcommittee of ANF20, ANF10,
ANB40, ANF30, AP020
Geoff Rose, chair, Tuesday, 3:45 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 7 (M2)
Occupant Protection Committee
Joyce Pressley, chair, Tuesday, 8:00 a.m.–noon,
MM Marquis Ballroom Salon 8 (M2)
Alcohol, Other Drugs, and Transportation Committee
Tara Kelley-Baker, chair, Monday, 8:00 a.m.–noon,
MM Marquis Ballroom Salon 14 (M2)
Safe Mobility of Older Persons Committee
Loren Staplin, chair, Tuesday, 8:00 a.m.–noon, MM Howard University (M1)
Older Women’s Activities Subcommittee, ANB60(1)
Jennifer Oxley, Monday, 6:00 p.m.–7:30 p.m.,
MM Marquis Ballroom Salon 7 (M2)
Medical Advisory Boards and Driver Licensing
Subcommittee, ANB60(2)
Jamie Dow, Tuesday, 1:30 p.m.–3:15 p.m.,
MM Independence Hall (M4)
Senior Mobility Options Subcommittee, ANB60(3)
Lisa Molnar, Monday, 8:00 a.m.–9:45 a.m.,
MM Marquis Ballroom Salon 13 (M2)
Truck and Bus Safety Committee
Brenda Lantz, chair, Tuesday, 1:30 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 10 (M2)
Motor Carrier Alternative Compliance
Subcommittee, ANB70(1)
Sharon Newnam, Monday, 6:00 p.m.–7:30 p.m.,
MM Marquis Ballroom Salon 8 (M2)
Motorcoach Safety Subcommittee, ANB70(2)
Charles Vits, Monday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 13 (M2)
Truck and Bus Operator Health and Wellness
Subcommittee, ANB70(3)
Jeffrey Hickman, Wednesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 13 (M2)
Truck and Bus Data Subcommittee, ANB70(4)
Robert Scopatz, Monday, 1:30 p.m.–3:15 p.m.,
MM Marquis Ballroom Salon 8 (M2)
Truck and Bus Technology Subcommittee, ANB70(6)
Abby Morgan, Wednesday, 8:00 a.m.–9:45 a.m.,
MM Marquis Ballroom Salon 13 (M2)
Roundabouts Committee
Eugene Russell and Brian Walsh, cochairs, Wednesday,
2:30 p.m.–6:00 p.m., MM Marquis Ballroom Salon 9 (M2)
Roundabout Video Theater
Rachel Price, Tuesday, 10:15 a.m.–3:15 p.m.,
MM Marquis Ballroom Salon 11 (M2)
Vehicle User Characteristics Committee
William Horrey, chair, Monday, 8:00 a.m.–noon,
MM Marquis Ballroom Salon 8 (M2)
Human Factors Road Design Guides, AND10(2),
Joint Subcommittee of AND10, AND20
Samuel Tignor, Wednesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 8 (M2)
Human Factors in Road Vehicle Automation,
AND10(3), Joint Subcommittee of AND10, AHB15,
AHB30
Natasha Merat, Michael Manser, Tuesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 7 (M2)
Human Factors of In-Vehicle Systems, ANB20(1),
Joint Subcommittee of AND20, AND10
Timothy Brown, Wednesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 14 (M2)
Digital Billboards, AND20(3), Joint Subcommittee of
AND20, AND10, AND30, AND40
Jerry Wachtel, Monday, 6:00 p.m.–7:30 p.m.,
MM Judiciary Square (M3)
User Information Systems Committee
John Campbell, chair, Tuesday, 1:30 p.m.–5:30 p.m.,
MM Marquis Ballroom Salon 14 (M2)
Human Factors of In-Vehicle Systems, AND20(1),
Joint Subcommittee of AND20, AND10
Timothy Brown, Wednesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 14 (M2)
Digital Billboards, AND20(3), Joint Subcommittee of
AND20, AND10, AND30, AND40
Jerry Wachtel, Monday, 6:00 p.m.–7:30 p.m.,
MM Judiciary Square (M3)
Human Factors Road Design Guides, AND10(2),
Joint Subcommittee of AND10, AND20
Samuel Tignor, Wednesday, 10:15 a.m.–noon,
MM Marquis Ballroom Salon 8 (M2)
Simulation and Measurement of Vehicle and Operator
Performance Committee
Omar Ahmad and Donald Fisher, cochairs, Monday,
1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 14 (M2)
Human Factors in Road Vehicle Automation,
AND20(3), Joint Subcommittee of AND20, AND10,
AND30, AND40
Jerry Wachtel, Monday, 6:00 p.m.–7:30 p.m.,
MM Judiciary Square (M3)
Visibility Committee
John Bullough, chair, Monday, 6:00 p.m.–8:00 p.m.,
MM Chinatown (M3)
Digital Billboards, AND20(3), Joint Subcommittee of
AND20, AND10, AND30, AND40
Jerry Wachtel, Monday, 6:00 p.m.–7:30 p.m.,
MM Judiciary Square (M3)
Pedestrians Committee
Robert Schneider, chair, Monday, 8:00 a.m.–noon,
MM Marquis Ballroom Salon 12 (M2)
Pedestrian Research Subcommittee, ANF10(1)
Joe Fish, Monday, 1:30 p.m.–3:15 p.m., MM Marquis
Ballroom Salon 14 (M2)
Pedestrian and Autonomous Vehicle Interactions
Subcommittee, ANF10(3)
Laura Sandt, Justin Owens, Wednesday, 8:00 a.m.–9:45 a.m.,
MM Marquis Ballroom Salon 8 (M2)
Bicycle and Pedestrian Data, ABJ35(3),
Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40,
ANF20, ANF10
Sarah O’Brien, chair, Wednesday, 10:15 a.m.–noon,
MM Congress (M4)
Bicycle and Pedestrian Safety Analysis, ANB20(4),
Joint Subcommittee of ANB20, ANF10, ANF20, ANB25
Thomas Jonsson, Monday, 6:00 p.m.–7:30 p.m.,
MM Marquis Ballroom Salon 14 (M2)
Emerging Vehicles for Low-Speed Transportation, ANF20(4), Joint Subcommittee of ANF20, ANF10, ANB40, ANF30, AP020
Geoff Rose, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 7 (M2)

Pedestrian and Bicycle University Education, ANF20(6), Joint Subcommittee of ANF20, ANF10
Kristen Brookshire, Meghan Wieters, Tuesday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 7 (M2)

Feet First Caucus
V. Setty Pendakur, Robert Schneider, and Ralph Buehler, Wednesday, 6:15 p.m.–7:15 p.m., MM Marquis Ballroom Salon 12 (M2)

Bicycle Transportation Committee
Ralph Buehler, chair, Tuesday, 8:00 a.m.–noon, MM Marquis Ballroom Salon 12 (M2)

Bicycle Research Subcommittee, ANF20(2)
Jamie Parks, Monday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 8 (M2)

Bicycle Membership and Communications Subcommittee, ANF20(3)
Glen Kookey, Tara Goddard, Wednesday, 10:15 a.m.–noon, MM Marquis Ballroom Salon 16 (M2)

Emerging Vehicles for Low-Speed Transportation, ANF20(4), Joint Subcommittee of ANF20, ANF10, ANB40, ANF30, AP020
Geoff Rose, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 7 (M2)

Pedestrian and Bicycle University Education, ANF20(6), Joint Subcommittee of ANF20, ANF10
Kristen Brookshire, Meghan Wieters, Tuesday, 1:30 p.m.–3:15 p.m., MM Marquis Ballroom Salon 7 (M2)

Bicycle and Pedestrian Data, ABJ35(3), Joint Subcommittee of ABJ35, ABJ20, ABJ30, ABJ40, ANF20, ANF10
Sarah O’Brien, chair, Wednesday, 10:15 a.m.–noon, MM Congress (M4)

Bicycle and Pedestrian Safety Analysis, ANB20(4), Joint Subcommittee of ANB20, ANF10, ANF20, ANB25
Thomas Jonsson, Monday, 6:00 p.m.–7:30 p.m., MM Marquis Ballroom Salon 14 (M2)

Feet First Caucus
V. Setty Pendakur, Robert Schneider, and Ralph Buehler, Wednesday, 6:15 p.m.–7:15 p.m., MM Marquis Ballroom Salon 12 (M2)

Motorcycles and Mopeds Committee
Narelle Haworth, chair, Monday, 1:30 p.m.–5:30 p.m., MM Marquis Ballroom Salon 10 (M2)

Emerging Vehicles for Low-Speed Transportation, ANF20(4), Joint Subcommittee of ANF20, ANF10, ANB40, ANF30, AP020
Geoff Rose, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 7 (M2)

Public Transportation Group Executive Board
Dennis Hinebaugh, chair, Tuesday, Noon–2:00 p.m. (by invitation), MM LeDroit Park (M3)

Public Transportation Group Young Members Subcommittee, AP000(2)
Candace Brakewood and Martin Brosnan, cochairs, Tuesday, 8:00 a.m.–9:45 a.m., MM Judiciary Square (M3)

Transformative Transit Data, AP000(3), Joint Subcommittee of AP000, ABJ00
Catherine Lawson, chair, Monday, 1:30 p.m.–3:15 p.m., MM Treasury (M4)

A Tribute to Herbert Levinson
Dennis Hinebaugh, chair, Tuesday, 7:00 p.m.–8:30 p.m., CC 102B

Transit Management and Performance Committee
Amy Van Doren, chair, Wednesday, 8:00 a.m.–noon, MM Union Station (M3)

Transit Capital Replacement Subcommittee, AP010(1)
Robert Peskin, Monday, 1:30 p.m.–3:15 p.m., MM Woodley Park (M3)

Transit Fleet Maintenance Subcommittee, AP010(2)
Sahyashree Mishra, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Mint (M4)

Transit State of Good Repair, AP010(3), Joint Subcommittee of AP10, AR055, AP070, AP065, AP050, AP075, AP045
William Robert, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Transit Capacity and Quality of Service Committee
Paul Ryus, chair, Tuesday, 10:15 a.m.–noon, MM Judiciary Square (M3)

Transit Safety and Security Task Force
Lisa Stas, chair, Tuesday, 2:00 p.m.–5:30 p.m., MM L’Enfant Plaza (M3)

Emerging and Innovative Public Transport and Technologies Committee
Jean Ruestman and Carol Schweiger, cochairs, Tuesday, 2:00 p.m.–5:30 p.m., MM Chinatown (M3)

Shared-Use Vehicle Public Transport Systems Subcommittee, AP020(1)
Susan Shaheen, Monday, 10:15 a.m.–noon, MM Union Station (M3)

Emerging Ridesharing Solutions, AP020(2), Joint Subcommittee of AP020, AP025, AHB15
Jeffrey Chernick and Prachi Vakharia, cochairs, Wednesday, 10:15 a.m.–noon, MM Chinatown (M3)

Parking Management, ABE50(1), Joint Subcommittee of ABE50, ABE20, ABE25, AP020
Rachel Weinberger, chair, Tuesday, 6:00 p.m.–7:30 p.m., MM Howard University (M1)

Emerging Vehicles for Low-Speed Transportation, ANF20(4), Joint Subcommittee of ANF20, ANF10, ANB40, ANF30, AP020
Geoff Rose, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Marquis Ballroom Salon 7 (M2)

Public Transportation Planning and Development Committee
Joana Conklin, chair, Wednesday, 8:00 a.m.–noon, MM Capitol (M4)

Emerging Ridesharing Solutions, AP020(2), Joint Subcommittee of AP020, AP025, AHB15
Jeffrey Chernick and Prachi Vakharia, cochairs, Wednesday, 10:15 a.m.–noon, MM Chinatown (M3)

Public Transportation Marketing and Fare Policy Committee
Jeffrey Busby, chair, Monday, 3:45 p.m.–5:30 p.m., MM Mount Vernon Square (M3)

Automated Transit Systems Committee
Walter Kulyk, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Congress (M4)

Intermodal Passenger Facilities Committee
Susan Shaheen, Monday, 10:15 a.m.–noon, MM Judiciary Square (M3)

Automated Transit Systems Committee
Walter Kulyk, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Congress (M4)

Intermodal Passenger Facilities Committee
Susan Shaheen, Monday, 10:15 a.m.–noon, MM Judiciary Square (M3)

Art and Design Excellence in Transportation Subcommittee, AP045(1)
Anthony Louti, Wednesday, 2:30 p.m.–4:00 p.m., MM Chinatown (M3)

Transit State of Good Repair, AP10(3)
Joint Subcommittee of AP10, AR055, AP070, AP065, AP050, AP075, AP045
William Robert, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)
Committees
Committee Meetings (Continued)

Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040
Mark Walbrun, Wednesday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)

AP050

Bus Transit Systems Committee
Thomas Schweiz, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Congress (M4)

TRB Bus Rapid Transit Conference Planning Subcommittee, AP050(1)
Dennis Hinebaugh, Wednesday, 8:00 a.m.–9:45 a.m., MM Independence G (M4)

Transit State of Good Repair, AP010(3), Joint Subcommittee of AP010, AR055, AP070, AP065, AP050, AP075, AP045
William Robert, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Rural Public and Intercity Bus Transportation Committee
Patricia Collette, chair, Monday, 8:00 a.m.–noon, MM Mint (M4)

AP055

TBR Rural Public and Intercity Bus Transportation Conference Planning Subcommittee, AP053(1)
Jackelyn Montgomery, Patricia Monahan, Tuesday, 10:15 a.m.–noon, MM Treasury (M4)

Rural Public and Intercity Bus Transportation Research Subcommittee, AP055(2)
J. Rodman, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Mount Vernon Square (M3)

Transportation in Military Communities, ADA20(2), Joint Subcommittee of ADA20, AT035, AP055
Corey Hull, Monday, 3:45 p.m.–5:30 p.m., MM Independence H (M4)

Paratransit Committee
Cecilia Feeley, chair, Tuesday, 8:00 a.m.–noon, MM Mount Vernon Square (M3)

AP060

Paratransit Research Subcommittee, AP060(1)
David Rishel, chair, Monday, 3:45 p.m.–5:30 p.m., MM Union Station (M3)

Taxi Subcommittee, AP060(2)
Annette Williams, chair, Monday, 1:30 p.m.–3:15 p.m., MM Union Station (M3)

Rail Transit Systems Committee
Wendy Jia, chair, Wednesday, 2:30 p.m.–4:00 p.m., MM Mint (M4)

AP065

Guided and Electric Trolley Bus, AP065(1), Joint Subcommittee of AP065, AP075
Thomas Potter, Tuesday, 1:30 p.m.–3:15 p.m., MM Pentagon (M4)

International Rail Transit Subcommittee, AP065(2)
Gregory Newmark, Monday, 3:45 p.m.–5:30 p.m., MM Woodley Park (M3)

Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040
Mark Walbrun, Wednesday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)

Transit State of Good Repair, AP010(3), Joint Subcommittee of AP010, AR055, AP070, AP065, AP050, AP075, AP045
William Robert, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Commuter Rail Transportation Committee
Michael Loehr, chair, Tuesday, 8:00 a.m.–noon, MM Mint (M4)

AP070

Self-Powered Units, AP070(1), Joint Subcommittee of AP070, AR020
David Nelson, Wednesday, 2:30 p.m.–4:00 p.m., MM Union Station (M3)

Commuter Rail Research Subcommittee, AP070(2)
Thomas Cornilffe, Monday, 8:00 a.m.–9:45 a.m., MM Woodley Park (M3)

Transit State of Good Repair, AP010(3), Joint Subcommittee of AP010, AR055, AP070, AP065, AP050, AP075, AP045
William Robert, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040
Mark Walbrun, Wednesday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)

Rail Capacity, AR040(1), Joint Subcommittee of AR040, AR030, AP070, AT010, AR010
Tyler Dick, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Treasury (M4)

Light Rail Transit Committee
Graham Currie, chair, Monday, 8:00 a.m.–noon, MM Chinatown (M3)

Subcommittee on Street Cars, AP075(1)
Monica Meade, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Treasury (M4)

TRB Light Rail Transit Conference Planning Subcommittee, AP075(2)
Thomas Furmanik, Tuesday, 3:45 p.m.–5:30 p.m. (by invitation), MM Pentagon (M4)

International Light Rail Transit Developments Subcommittee, AP075(3)
Margaret Novales, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Treasury (M4)

Transit State of Good Repair, AP010(3), Joint Subcommittee of AP010, AR055, AP070, AP065, AP050, AP075, AP045
William Robert, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Guided and Electric Trolley Bus, AP065(1), Joint Subcommittee of AP065, AP075
Thomas Potter, Tuesday, 1:30 p.m.–3:15 p.m., MM Pentagon (M4)

Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040
Mark Walbrun, Wednesday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)

Ferry Transportation Committee
Stephanie Camay, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Congress (M4)

Rail Group
Rail Group Executive Board
George Grimes, chair, Monday, 6:00 p.m.–7:30 p.m. (by invitation), MM Capitol Hill (M3)

InterCity Passenger Rail Committee
Dominic Spaethling, chair, Monday, 1:30 p.m.–5:30 p.m., MM Capitol (M4)

InterCity Passenger Rail Intermodal Interface Subcommittee, AR010(1)
Eric Peterson, chair, Tuesday, 10:15 a.m.–noon, MM Woodley Park (M3)

Socioeconomic and Financial Aspects of Intercity Passenger Rail Subcommittee, AR010(2)
Maite Pena-Alcaraz, Monday, 10:15 a.m.–noon, MM L’Enfant Plaza (M3)

InterCity Passenger Rail Research Subcommittee, AR010(3)
Valero Orúcich, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040
Mark Walbrun, Wednesday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)
Committee Meetings (Continued)

Rail Capacity, AR040(1), Joint Subcommittee of AR040, AR030, AP070, AT010, AR010
Tyler Dick, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Treasury (M4)

Passenger Rail Equipment and Systems Integration Committee
AR020
Eloy Martinez, chair, Monday, 8:00 a.m.–9:45 a.m., MM Treasury (M4)

Railroad Environmental Research Issues Committee
AR020(1)
J. Lee Hutchins, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Woodley Park (M3)

Self-Powered Units, AP070(1), Joint Subcommittee of AP070, AR020
David Nelson, Wednesday, 2:30 p.m.–4:00 p.m., MM Union Station (M3)

Railroad Operating Technologies Committee
AR030
Adrian Hellman, chair, Monday, 10:15 a.m.–noon, MM Treasury (M4)

Rail Capacity, AR040(1), Joint Subcommittee of AR040, AR030, AP070, AT010, AR010
Tyler Dick, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Treasury (M4)

Freight Rail Transportation Committee
AR040
Past Lautala, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Capitol (M4)

Rail Capacity, AR040(1), Joint Subcommittee of AR040, AR030, AP070, AT010, AR010
Tyler Dick, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Treasury (M4)

Shared Rail Corridors and Facilities, AP065(3), Joint Subcommittee of AP045, AP070, AP075, AR010, AR040
Mark Walbrun, Wednesday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)

Railroad Track Structure System Design Committee
AR050
J. Riley Edwards, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Capitol (M4)

Rail Transit Infrastructure Committee
AR055
Anthony Bohara, chair, Monday, 8:00 a.m.–9:45 a.m., MM Capitol (M4)

Rail Noise and Vibration, ADC40(2), Joint Subcommittee of ADC40, AR055
Jason Ross, Monday, 10:15 a.m.–noon, MM Independence G (M4)

Transit State of Good Repair, AP010(3), Joint Subcommittee of AP010, AR035, AP070, AP065, AP050, AP075, AP045
William Robertson, chair, Monday, 3:45 p.m.–5:30 p.m., MM Treasury (M4)

Railway Maintenance Committee
AR060
Joseph Smak, chair, Monday, 1:30 p.m.–3:15 p.m., MM Mint (M4)

Railroad Operational Safety Committee
AR070
Ann Mills, chair, Tuesday, 1:30 p.m.–3:30 p.m., MM Mount Vernon Square (M3)

Joint Meeting of the Freight Systems and Marine Group Executive Boards
AT000
Anne Goodchild and Eric Shen, chairs, Sunday, 5:30 p.m.–7:30 p.m. (by invitation), MM Capitol Hill (M3)

Young Members Council—Freight Systems and Marine Group Subcommittee, AT000(1)
Matthew Campo and Nicholas Keohoe, cochairs, Sunday, 5:30 p.m.–7:30 p.m., MM Union Station (M3)

Transport of Energy Products Subcommittee, AT000(2)
William Holik, chair, Monday, 1:30 p.m.–3:15 p.m., MM Judiciary Square (M3)

Freight Transportation Economics and Regulation Committee
AT010
Mario Iacobacci, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Mint (M4)

Rail Capacity, AR040(1), Joint Subcommittee of AR040, AR030, AP070, AT010, AR010
Tyler Dick, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Treasury (M4)

Freight Transportation Planning and Logistics Committee
AT015
Matthew Roorda, chair, Monday, 3:45 p.m.–5:30 p.m., MM Chinatown (M3)

Freight Modeling Subcommittee, AT015(1)
Xiubin Wang, Joseph Chow, Monday, 6:00 p.m.–7:30 p.m., MM Mount Vernon Square (M3)

Development of Freight Fluidity Performance Measures Task Force
AT017T
Joseph Schofer, chair, Monday, 8:00 a.m.–9:45 a.m., MM Pentagon (M4)

International Trade and Transportation Committee
AT020
Juan Carlos Villa, chair, Monday, 8:00 a.m.–9:45 a.m., MM Union Station (M3)

Urban Freight Transportation Committee
AT025
Will Eisele, chair, Monday, 1:30 p.m.–3:15 p.m., MM Chinatown (M3)

Agricultural Transportation Committee
AT030
Caroline Mays, chair, Monday, 3:45 p.m.–5:30 p.m., MM Congress (M4)

Military Transportation Committee
AT035
William Crowder, chair, Monday, 8:00 a.m.–9:45 a.m., MM Mount Vernon Square (M3)

Transportation in Military Communities, ADA20(2), Joint Subcommittee of ADA20, AT035, AP055
Corey Hull, Monday, 3:45 p.m.–5:30 p.m., MM Independence H (M4)

Freight Modeling Subcommittee, AT015(1)
Xiubin Wang, Joseph Chow, Monday, 6:00 p.m.–7:30 p.m., MM Mount Vernon Square (M3)

Transportation of Hazardous Materials Committee
AT040
Richard Bornhorst, chair, Monday, 8:00 a.m.–noon, MM Congress (M4)

Risk Management Subcommittee, AT040(1)
Richard Bornhorst, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Woodley Park (M3)

Intermodal Freight Transport Committee
AT045
Richard Easley, chair, Monday, 7:30 p.m.–10:00 p.m., MM Union Station (M3)

Intermodal Freight Terminal Design and Operations Committee
AT050
Nathan Huyhn, chair, Monday, 10:15 a.m.–noon, MM Judiciary Square (M3)

Truck Size and Weight Committee
AT055
John Woodrooffe, chair, Monday, 3:45 p.m.–5:30 p.m., MM L’Enfant Plaza (M3)

Trucking Industry Research Committee
AT060
Kristen Monaco, chair, Monday, 10:15 a.m.–noon, MM Capitol (M4)

Aviation Group

Aviation Group Executive Board
AV000
David Ballard, chair, Monday, Noon–1:30 p.m. (by invitation), MM Capitol Hill (M3)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

International Members Council—Aviation, AV000(2)
Hazel Peace, Tuesday, 12:15 p.m.–1:15 p.m., MM Union Station (M3)

Committee Research Coordinators Council—Aviation, AV000(3)
Laurie Cullen and Verne Skagerberg, cochair, Monday, 10:15 a.m.–noon, MM Woodley Park (M3)
Committee Communications Coordinators
Council—Aviation, AV000(4)
Amber Woodburn, Tuesday, 12:15 p.m.–1:15 p.m., MM Pentagon (M4)

Intergovernmental Relations in Aviation Committee
Pamela Keidel-Adams, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Union Station (M3)

Commercial Space Transportation, AV010(1), Joint Subcommittee of AV010, AV060, AV020
Marcus Smith, Monday, 1:30 p.m.–3:15 p.m., MM Mount Vernon Square (M3)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Unmanned Aircraft Systems, AV060(1), Joint Subcommittee of AV060, AV020, AV010
Daniel Friedenzohn, Monday, 10:15 a.m.–noon, MM Archives (M4)

Aviation System Planning Committee
Jeffrey Borowiec, chair, Wednesday, 10:15 a.m.–noon, MM Archives (M4)

National Aviation System Planning Symposium Organizing Team, AV020(1)
Verne Skagerberg, Tuesday, 8:00 a.m.–9:45 a.m., MM Pentagon (M4)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Commercial Space Transportation, AV010(1), Joint Subcommittee of AV010, AV060, AV020
Marcus Smith, Monday, 1:30 p.m.–3:15 p.m., MM Mount Vernon Square (M3)

Unmanned Aircraft Systems, AV060(1), Joint Subcommittee of AV060, AV020, AV010
Daniel Friedenzohn, Monday, 10:15 a.m.–noon, MM Archives (M4)

Environmental Impacts of Aviation Committee
Jennifer Salerno, chair, Monday, 1:30 p.m.–3:15 p.m., MM Archives (M4)

Aviation Climate Change and Sustainability Subcommittee, AV030(1)
Ryan Spicer, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Union Station (M3)

Aviation Water Resources Subcommittee, AV030(2)
Jennifer Fuller, Monday, 10:15 a.m.–noon, MM Mount Vernon Square (M3)

Aviation Noise and Vibration, ADC40(1), Joint Subcommittee of ADC40, AV030
Natalia Sizov, Monday, 8:00 a.m.–9:45 a.m., MM Independence H (M4)

Alternative Aviation Fuels, ADC80(1), Joint Subcommittee of ADC80, AV030
Prem Lobo, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Independence G (M4)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Aviation Economics and Forecasting Committee
Paul Aussendorf, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Judiciary Square (M3)

Air Cargo Subcommittee, AV040(1)
Douglas Banez, chair, Tuesday, 1:30 p.m.–3:15 p.m., MM Judiciary Square (M3)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Airport Terminals and Ground Access Committee
Andrew Kirchhoff, chair, Monday, 8:00 a.m.–9:45 a.m., MM Archives (M4)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Unmanned Aircraft Systems, AV060(1), Joint Subcommittee of AV060, AV020, AV010
Daniel Friedenzohn, Monday, 10:15 a.m.–noon, MM Archives (M4)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Commercial Space Transportation, AV010(1), Joint Subcommittee of AV010, AV060, AV020
Marcus Smith, Monday, 1:30 p.m.–3:15 p.m., MM Mount Vernon Square (M3)

Aircraft/Airport Compatibility Committee
Ernest Heymsfield, chair, Tuesday, 10:15 a.m.–noon, MM Chinatown (M3)

Aviation Geographic Information Systems and Data, AV070(1), Joint Subcommittee of AV070, ABJ60
Mark Blickens and Randall Murphy, cochairs, Tuesday, 8:00 a.m.–9:45 a.m., MM Chinatown (M3)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Civil Helicopter Subcommittee, AV080(1)
Les Clark, chair, Monday, 3:45 p.m.–5:30 p.m., MM Archives (M4)

Business Aviation Subcommittee, AV080(2)
Jesse Jacobs, Tuesday, 1:30 p.m.–5:30 p.m., MM Archives (M4)

Commercial Airlines Subcommittee, AV080(3)
Rolland Vincent and Moira Harvey, cochairs, Tuesday, 10:15 a.m.–noon, MM Archives (M4)

Aviation Security and Emergency Management Committee
Bart Elas, chair, Tuesday, 6:00 p.m.–7:30 p.m., MM Mount Vernon Square (M3)

Aviation Safety Subcommittee, AV090(1)
Christian Salmon, chair, Tuesday, 7:30 p.m.–9:30 p.m., MM Mount Vernon Square (M3)

Young Members Council—Aviation, AV000(1)
Elaine Croft McKenzie, chair, Monday, 7:30 p.m.–9:30 p.m., MM Archives (M4)

Joint Meeting of the Freight Systems and Marine Group Executive Boards
Anne Goodchild and Eric Shen, chairs, Sunday, 5:30 p.m.–7:30 p.m. (by invitation), MM Capitol Hill (M3)

Ports and Channels Committee
Mihalis Gkolias, chair, Wednesday, 8:00 a.m.–9:45 a.m., MM Chinatown (M3)

Port Automation Subcommittee, AW010(1)
Erik Stromberg, Mihalis Gkolias, chair, Monday, 6:00 p.m.–7:30 p.m., MM Congress (M4)

Port Performance Subcommittee, AW010(2)
Mihalis Gkolias, chair, Tuesday, 3:45 p.m.–5:30 p.m., MM Congress (M4)

Inland Water Transportation Committee
Elizabeth Burkhart, chair, Monday, 8:00 a.m.–9:45 a.m., MM Judiciary Square (M3)

Marine Environment Committee
Jim Kruse, chair, Tuesday, 8:00 a.m.–9:45 a.m., MM Archives (M4)
Committee Meetings (Continued)

Marine Safety and Human Factors Committee
Todd Ripley, chair, Monday, 3:45 p.m.–5:30 p.m.,
MM Judiciary Square (M3)

TRB Information Services Committee
Birgitta Sandstedt, chair, Monday, 3:45 p.m.–5:30 p.m.,
MM Pentagon (M4)
Transportation Research Thesaurus Subcommittee,
B0002(1)
Sandra Tucker, Monday, 1:30 p.m.–3:15 p.m.,
MM Pentagon (M4)

ACRP Oversight Committee
Symposium on ACRP Research in Progress
Sunday, 8:00 a.m.–5:00 p.m., MM Capitol (M4)
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American Public Transportation Association Space A193
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Cols, OH 43210
www.engineering.osu.edu

The World Bank Space A137
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Washington, DC 20433
www.worldbank.org

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Tianjin, 300072
China

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Washington Metropolitan Area Transit Authority Space A237
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www.wmata.com

Women’s Transportation Seminar Space A205
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Bethesda, MD 20814

Young Professionals in Transportation Space A113
PO Box 7783
Washington, DC 20013
www.yptraffic.org

Zydex Inc. Space A121
106 Kitty Hawk Drive
Morrisville, NC 27560
www.zydexindustries.com
## Presentation Schedule

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<td>10:15 a.m.–11:00 a.m.</td>
<td><strong>Quick-Fire Talks</strong></td>
<td>Katherine Kortum, Senior Program Officer, Transportation Research Board</td>
<td>With quickly evolving transportation technology in a rapidly changing environment, future generations are facing unprecedented risks and opportunities as they seek to successfully navigate their career path in transportation. Through quick-fire talks, you will hear from three professionals who have successfully tackled the unique opportunities before them in an ever-changing professional landscape.</td>
</tr>
<tr>
<td>11:00 a.m.–11:45 a.m.</td>
<td><strong>Resume and Interviewing Basics</strong></td>
<td>Ashley Robbins, Research Director, Mobility Lab</td>
<td>Are you prepared for your next interview? Is your resume ready to impress? Come and hear from two hiring managers about what you should be doing to stand out.</td>
</tr>
<tr>
<td>11:45 a.m.–12:15 p.m.</td>
<td><strong>Networking 101</strong></td>
<td>Mike Carragher, President and CEO, VHB</td>
<td>Do you feel intimidated about walking into a room full of strangers? Come to this session to learn tips and hacks on how to meet people and forge new connections at this TRB Annual Meeting.</td>
</tr>
<tr>
<td>12:15 p.m.–2:00 p.m.</td>
<td><strong>Resume Critique Table</strong></td>
<td></td>
<td>Stop by to have your resume reviewed by experienced hiring managers or to ask them any questions you may have about the interviewing and hiring process.</td>
</tr>
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## Networking Area

Swing by to mingle with your fellow colleagues. There will be designated areas for networking by various disciplines.
Exhibit Floor Plan

Conventional Center
Level 2, Hall D

Exhibit Hours
• Sunday, January 7, 4:00 p.m.–7:00 p.m. (Opening and Reception)
• Monday, January 8, 9:00 a.m.–4:00 p.m.
• Tuesday, January 9, 9:00 a.m.–4:00 p.m.

Floor plan is subject to change without notice.
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Booth 401

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Booth 412

Glen Weisbrod
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Booth 503

Note: Exhibitor listings are as of December 6, 2017. Please see the Mobile App or Annual Meeting website for the most up-to-date listings.
3D-Radar specializes in three-dimensional, step-frequency ground penetrating radar (GPR) and multi-channel antenna design. Its GeoScope Mk IV GPR technology raises the standard for high-speed, high-density three-dimensional sub-surface imaging with high resolution.

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AC&A is a professional services company in the areas of Engineering, Infrastructure Planning and Economics, Environmental Management and Urban Planning, oriented to government entities, industries, and services corporations. AC&A was founded in Buenos Aires in 1999 and since then has developed 200+ projects in 30 countries with branches in Uruguay and the United States and a strong presence in Latin America.

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The American Galvanizers Association (AGA) was created to educate and train in the specification and use of hot-dip galvanized steel throughout North America. Since 1933, the AGA has been the unified voice of the industry and provides information on the most innovative applications and state-of-the-art technological developments in hot-dip galvanizing for corrosion protection.

The American Public Transportation Association (APTA) is a nonprofit international association of 1,500 public- and private-sector organizations and is the only association in North America that represents all modes of public transportation. APTA houses the public transit industry's research and policy program offering cutting-edge thought leadership and statistics.

Welcome to the American Society of Civil Engineers (ASCE). Founded in 1852, ASCE represents more than 155,000 members of the civil engineering profession worldwide and is America's oldest national engineering society.

The American Transportation Research Institute is the trucking industry's 501(c)(3) not-for-profit research organization. It is engaged in critical research relating to freight transportation’s essential role in maintaining a safe, secure, and efficient transportation system.

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| BlueMAC Analytics       | 379         | Joshua Schultz  
610 SW Alder Street, Suite 700  
Portland, OR 97205  
Phone: 503-535-7457  
www.digiwest.com  

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Brisk Synergies is a leading software solution designer for infrastructure inspection and management and is the creator of inspec:tX, the innovative 3D bridge inspection application. |
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Phone: +81-3-6454-4255  
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College Park, MD 20742  
Phone: 410-707-7479  
ntc.umd.edu  

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Beijing, 13011
China
Phone: 0086 138 1077 2333
www.cts.cn

China Highway & Transportation Society (CHTS), founded in May 1921, is the earliest national, academic, and nonprofit social organization of scientific and technological workers and units from China highway, transportation, and other related fields. CHTS was reformed on August 28, 1978, and currently has about 2,400 group members and 72,000 individual members.

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Phone: 404-394-6158
www.citilabs.com

Citilabs is a global provider of mobility analytics for businesses and government agencies. Headquartered in Sacramento, California, with offices in Atlanta, Tallahassee, Abu Dhabi, and Milan, Citilabs provides solutions to empower those who create meaningful change for the betterment of their communities and organizations. As a global industry leader, Citilabs supports 2,400 clients in more than 70 countries.

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District Department of Transportation
Stephanie Dock
55 M Street, SE, Suite 400
Washington, DC 20003
Phone: 202-673-6813
ddot.dc.gov

The District Department of Transportation (DDOT) manages and maintains transportation infrastructure in Washington, DC. We plan, design, construct, and maintain the District’s streets, alleys, sidewalks, bridges, traffic signals, and street trees. We also operate Capital Bikeshare, DC Streetcar, and the Circulator bus services.

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Spain
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Engineering Consulting Group (ECG) is a global consulting group that provides engineering services to public and private clients for planning, designing, constructing, operating, and maintaining hundreds of projects around the world. ECG is specialized in the inventory, survey, assessment, and management of civil infrastructures and the development of customized GIS-AMS (assets management systems).

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For more than 45 years, ENSCO has led the rail industry worldwide in developing new and advanced technologies to improve the safety, security, and quality of their operations. ENSCO is a leading provider of automated and autonomous inspection systems, web-based data management systems, vehicle dynamics analysis and simulations, and large-scale systems integration for federal and commercial railways.

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EurekaFacts is a full-service market research and analysis firm. We specialize in recruiting hard-to-reach audiences and in conducting complex commercial and government quantitative and qualitative studies. EurekaFacts is certified to ISO 20252; the international standard for market, opinion, and social research.

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www.escsi.org

Expanded Shale, Clay and Slate Institute (ESCSI) is the international trade association for manufacturers of rotary kiln-produced expanded shale, expanded clay, and expanded slate lightweight aggregate. ESCSI promotes the extensive use of rotary kiln-produced lightweight aggregate in the lightweight concrete masonry and structural lightweight concrete markets, as well as use in asphalt, geotechnical, and other applications.

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The UAS Integration Office is the focal point for all things UAS within the FAA. Our mission is safe, timely, and efficient integration of UAS into the National Airspace System (NAS).

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Federal Motor Carrier Safety Administration
Elizabeth Davies-Skelle
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Washington, DC 20590
Phone: 202-366-2170
www.fmcsa.dot.gov

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Federal Railroad Administration
Timothy Barkley
Office of Administrator, Office of Public Engagement
1200 New Jersey Avenue, SE
Room W33-320
Washington, DC 20590
Phone: 202-493-1305
www.fra.dot.gov

The U.S. Department of Transportation’s Federal Railroad Administration (FRA) enables the safe, reliable, and efficient movement of people and goods for a strong America, now and in the future. FRA is the chief safety regulator for all passenger and freight railroads nationwide and is committed to continuous safety improvement.

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Federal Highway Administration (FHWA)
TaM McCrae
Turner-Fairbank Highway Research Center
6300 Georgetown Pike
McLean, VA 22101
Phone: 202-493-3382
www.fhwa.dot.gov

FHWA Every Day Counts (EDC)
Through the Every Day Counts initiative, FHWA works with state and local transportation agencies and industry stakeholders to identify a new collection of innovations to champion every two years. Innovations are selected collaboratively by stakeholders from across the highway community, considering market readiness, impacts, benefits, and ease of adoption of the innovation.

FHWA Exploratory Advanced Research (EAR) Program
FHWA’s Exploratory Advanced Research (EAR) Program sponsors longer-term and higher-risk breakthrough research with the potential for dramatic improvements to the surface transportation system. FHWA works with research partners on topics where breakthroughs are most needed and there is high potential for long-term, higher-risk research.

FHWA National Highway Institute
335
The National Highway Institute (NHI), housed within FHWA’s Office of Technical Services (OTS), provides technical training to the transportation highway workforce to build skills and enhance job performance to improve the conditions and safety of our nation’s roads, highways, and bridges. We train personnel from federal agencies, state DOTs, local public agencies, industry, and academia.

FHWA Natural Environment/Sustainable Transportation and Resilience Team
This booth showcases FHWA’s initiatives and programs that help state, regional, and local agencies plan and build a better transportation system. The self-assessment tool for enhancing sustainability, INVEST, is highlighted, along with publications and other resources developed to improve resilience to future environmental and weather conditions and increase system performance and efficiency by reducing energy use and emissions.

FHWA Office of Freight
430
The Office of Freight Management and Operations promotes efficient, seamless, and secure freight flows on the U.S. transportation system and across our borders. The smooth and secure flow of freight is important to our nation’s economy and to our global connectivity.

FHWA Office of Infrastructure Research and Development, Long-Term Bridge Performance Program
The objective of the Long-Term Bridge Performance Program is to compile a comprehensive database of quantitative information from a representative sample of bridges nationwide, using every bridge element and taking a holistic approach to analyze all the physical and functional variables that affect bridge performance and health.

FHWA Office of Infrastructure Research and Development, Long-Term Pavement Performance Program
The Long-Term Pavement Performance Program (LTTP) is a comprehensive research program monitoring in-service pavement test sections across the United States and Canada. LTTP pavement performance data and improved technology are resulting in better performing and more cost-effective pavements. Information on the program, database, and products are available at the booth.

FHWA Office of Innovative Program Delivery (OIPD)
327
OIPD works across FHWA to develop or align capacity building, technical support, and guidance to bring forward and accelerate the implementation of innovative designs, materials, construction, and environmental techniques and practices; finance and revenue tools; public–private partnerships; and transportation workforce development practices and resources to help FHWA’s partners meet the needs of a 21st-century transportation system.

FHWA Office of Natural Environment—Congestion Mitigation and Air Quality Improvement Program
431

FHWA Office of Operations
426
FHWA’s Office of Operations provides national leadership for the management and operation of the surface transportation system. The office is responsible for FHWA’s efforts in the areas of congestion management, Intelligent Transportation Systems (ITS) deployment, traffic operations, emergency management, and freight management and operations. Visit our booth to review and take home some of our latest free transportation management resources.
Exhibits (Continued)

FHWA Office of Operations Research and Development 429
This booth will feature information about ongoing FHWA Office of Operations Research and Development projects and facilities, including the Saxton Laboratory.

FHWA Office of Planning, Environment, & Realty 323
The Office of Planning, Environment, & Realty (HEP) is committed to conducting and promoting research that strengthens transportation decision making and promotes efficiency while protecting and enhancing our communities and environment. This exhibit will provide information on the latest HEP research topics associated with comprehensive intermodal and multimodal transportation planning, accelerated project delivery, expanding opportunity through economic development, enhancement of community and social benefits of highway transportation, and improvements to the quality of the natural and human environment. Additionally, research on the fair and prudent acquisition and management of real property.

FHWA Office of Safety 422
FHWA's Office of Safety's mission is to reduce highway fatalities by making our roads safer through a data-driven, systematic approach to putting safety first when applying engineering, education, enforcement, and emergency medical services. Focus areas include Comprehensive Strategic Planning, Roadway Departure, Intersections, and Pedestrians Safety. Visit http://safety.fhwa.dot.gov.

FHWA Office of Safety Research and Development, Human Factors Research 425
Learn about research into the impacts of driver behavior on safety. Discuss the Human Factors Laboratory, including FHWA's full-scale Highway Driving Simulator, which is used for human factors evaluations of novel intersection designs, roadway signage, and vehicle automation. See videos of Human Factors projects involving roadway design, roadway signing, Connected and Automated Vehicle research, pedestrian research, and our new Virtual Reality Laboratory.

FHWA Office of Safety Research and Development, Roadway Safety 423
Keeping vehicles on the road and minimizing the negative consequences of a vehicle leaving the roadway are the core objectives of FHWA's Roadway Safety research program. Research topics include preventing and mitigating roadway departure crashes, advanced crash simulation and analysis, intersection safety, protecting pedestrians, speed management, low-cost safety countermeasures, and safety applications for Connected Vehicles technologies.

FHWA Office of Safety Research and Development, Safety Data and Analysis 427
Learn about the Safety Training and Analysis Center (STAC), where researchers can find assistance using the SHRP 2 safety data sets, the Naturalistic Driving Study, and the Roadway Information Database. See the latest release of IHSDM, a software suite for evaluating geometric design decisions to support AASHTO's Highway Safety Manual. Explore the Highway Safety Information System (HSIS), a multistate database combining crash, roadway inventory, and traffic volume data to guide decisions about safety improvements.

FHWA Resource Center, Office of Technical Services 331
The FHWA Resource Center (RC) is home to the agency's expert taskforce. The RC helps transportation agencies conquer challenging technical and partnership hurdles by providing personalized technical assistance, customized training, and ongoing support. The RC introduces and supports agencies in the implementation of new innovations sharing vast knowledge of national and international best practices.

FHWA Turner-Fairbank Highway Research Center and Connection Corner 433
Visit FHWA's Office of Research, Development, and Technology booth to learn more about the Turner-Fairbank Highway Research Center and the exciting research that is being conducted. At the Connection Corner take a moment to catch your breath and have another opportunity to review handout material you may have missed while visiting the agency's individual exhibits, all in one location!

FHWA Turner-Fairbank Highway Research Center Large Equipment Vehicles 339
Visit FHWA's Large Equipment Booth to learn more about the exciting research that is being conducted at the Turner-Fairbank Highway Research Center and get a close look at equipment from our Office of Operations and Infrastructure and Research and Development laboratories.

FHWA Universities & Grants Programs 333
The Dwight David Eisenhower Transportation Fellowship Program (DDETFP) is managed by FHWA's Center for Transportation Workforce Development within the Office of Innovative Program Delivery and awards fellowships to students pursuing degrees in transportation-related disciplines. This program advances the U.S. transportation workforce by helping to attract the nation's brightest minds to the industry, encouraging future professionals to seek advanced degrees and helping to retain top talent. We are celebrating the 25th anniversary of the DDETFP Showcase at TRB.

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Exhibit Details

**Exhibits (Continued)**

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www.hallidaytech.com

**HDR**
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4480 Cox Road, Suite 103
Glen Allen, VA 23060
Phone: 804-648-6630
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The Intelligent Transportation Society of America is the nation's largest organization dedicated to advancing the research, development, and deployment of intelligent transportation technologies throughout the United States.
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www.pavementpreservation.org

The National Center for Pavement Preservation (NCPP) was established to lead collaborative efforts among government, industry, and academia in the advancement of pavement and bridge preservation by advancing and improving preservation practices through education, research, and outreach.

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The Route 66 Alliance, based in Tulsa, Oklahoma, is dedicated to the preservation, promotion, and enhancement of historic Route 66 and is raising funds for the construction of the new Route 66 Experience, a 50,000 square foot interpretive center located on Historic Route 66 near the Cyrus Avery Memorial Bridge in Tulsa. It is scheduled to open in November 2018.

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- The Research in Progress (RiP) website (rip.trb.org) provides a database of current or recently completed transportation research projects and an alerting service of new projects in specified subject areas. Registered users may also enter projects in the database.
- The TRB Publications Index (pubsindex.trb.org) contains records for all papers, articles, reports, and conference proceedings published by TRB, the Highway Research Board, the Strategic Highway Research Program, and the Marine Board from 1923 to date.
- The Practice-Ready Paper (PRP) Database (prp.trb.org) contains papers in which the research and information presented are ready for immediate implementation or require minimal additional research or implementation effort.
- The Research Needs Statement (RNS) Database (rns.trb.org) is a searchable database of research problems or needs developed by TRBs technical committees.

Stop by the Information Services exhibit to learn more about these research tools and see demonstrations of these valuable resources.

Get Involved with TRB through MyTRB
Lisa Loyo, Director, Information Technology and Research Services
202-334-2990; lloyo@nas.edu
Michael DeCarmine, Business Systems Analyst
202-334-1343; mdecarmine@nas.edu
Gareth Driver, Help Desk/Business Systems Associate
202-334-2325; gdriver@nas.edu
Alan Rezaei, End User Support Specialist
202-334-1743; arezaei@nas.edu

Are you interested in getting involved with TRB? Stop by the MyTRB booth. Volunteer to be a usability tester of TRBs new website, expected to roll out in 2018. Set up or customize your MyTRB account to connect with TRBs Standing Technical Committees. Standing Technical Committees provide a forum for transportation professionals to identify and share research needs and innovations, develop professional networks, and advance the knowledge and practice of transportation. MyTRB will facilitate your connection with as many as 200+ Standing Technical Committees. Becoming involved with Standing Technical Committees will help you shape the direction of future TRB Annual Meetings, plan specialty conferences and workshops, and connect with your peers.

Visit the MyTRB booth where you can do the following:
- Maintain your contact information
- Identify your areas of interest
- Enter your bio
- Become a friend of a standing committee
- Accept a nomination to a standing committee
- Register for TRB webinars and sign up for webinar updates
- Order publications
- Search the online directory of TRBs more than 7,000 volunteers
- Access special features available only to standing committee members and chairs, as well as TRB state and federal representatives
- Provide feedback and input on TRBs new website

For more information about MyTRB, contact MyTRB@nas.edu or call 202-334-1738.

TransSTEM Academy, Francis L. Cardozo Education Campus
Shirley McCall
1200 Clifton Street, NW
Washington, DC 20001
Phone: 202-673-7385
www.transtechacademy.com

TransSTEM Academy is the Transportation and STEM Academy located at Cardozo Education Campus. Established in 1991, it is the first transportation studies academy in the Washington, DC, metropolitan area. It enables students to learn about, visit, and work in various areas of the transportation industry; particularly in transportation-related STEM pathways.

TransTech Systems
David Apkarian
900 Albany Shaker Road, Suite 2
Latham, NY 12110
Phone: 518-370-5558
www.transtechnology.com

TransTech Systems is the manufacturer of the Pavement Quality Indicator (PQI) non-nuclear asphalt density gauge. The PQI offers precise asphalt density measurement almost instantly (3 seconds). The PQI is more accurate than the nuclear gauge but without the hassles of regulatory training and certification. Enjoy fewer hassles and join the world leader and originator of non-nuclear technology.

TREDIS Software
Kirsten Hughes
155 Federal Street, Suite 600
Boston, MA 02110
Phone: 617-303-0424
www.tredis.com

TREDIS—the Transportation Economic Development Impact System—provides economic impact and benefit-cost analysis of transportation investments spanning highway, bus, rail, aviation, and marine modes. TREDIS covers both freight and passenger transport at community, region, and state levels. It is used for program assessment, alternatives analysis, EIS, and project selection processes.

Trimble
Cathy Fromma
10368 Westmoor Drive
Westminster, CO 80021
Phone: 800-361-1249
construction.trimble.com

Trimble continues to transform this industry’s work across the project life-cycle through sophisticated planning and design, advanced automation solutions, precision machine control, site positioning, mobile technologies, and real-time connectivity. At Trimble, we empower the civil engineering and construction industry to construct with confidence from concept to design to build and maintain.
Exhibit Details

**Trinity Highway**
Mary Beth Klein
2525 North Stemmons Freeway
Dallas, TX 75207
Phone: 214-589-7495
www.trinityhighway.com

For more than 40 years, Trinity Highway and its brands Energy Absorption, Safe-Hit, and Yodock have been leading innovators of solutions for both domestic and international roadways. The product lines include guardrail, cable barrier, crash cushions, end terminals, truck and trailer mounted attenuators, steel and water filled barriers, sign supports, flexible delineators, and other roadway products.

**Troxler Electronic Laboratories, Inc.**
Ryan Kirkendall
3008 Cornwallis Road
Research Triangle Park, NC 27709
Phone: 919-719-1821
www.troxlerlabs.com

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**U-Haul International, Inc.**
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Phoenix, AZ 85086
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Taylor Roberts
PÔ Box 1929
Tomball, TX 77377
Phone: 281-351-7800
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URETEK specializes in returning your pavement system to its original design with a stronger sub-base and improved foundation soil structure. We are the sustainable solution that preserves your assets using our superior technology that revolutionized the industry. We are the sensible solution that requires significantly less energy, time, expense, and operational disruption than replacement.

**U.S. Coast Guard**
Brian Dunn
Office of Bridge Programs (CG-BRG)
2703 Martin Luther King Jr. Avenue, SE, Stop 7418
Washington, DC 20593-7418
Phone: 202-372-1511
www.uscg.mil/hq/cg5/cg551

The U.S. Coast Guard’s Bridge Program is responsible for approval of the location and plans of bridges and causeways constructed across navigable waters of the United States, approval of drawbridge operating regulations, and the alteration of bridges found to be unreasonable obstructions to navigation. The Bridge Program contributes to the development of a safer and more efficient Marine Transportation System.

**U.S. Department of the Interior, National Park Service, Denver Service Center**
Michael Gale
5275 Leesburg Pike, MS: NWRS
Falls Church, VA 22041
Phone: 703-358-1840
www.nps.gov

The U.S. Department of the Interior and its agencies of the U.S. Fish & Wildlife Service, National Park Service, Bureau of Land Management, and U.S. Geological Survey work with transportation agencies and other partners to enhance habitat associated with transportation systems for the benefit of pollinators, including Monarch butterflies. This exhibit highlights that collaborative work.

**U.S. Department of Transportation/OST-R**
Michele Janis
USDOT/OST-R
1200 New Jersey Avenue, SE, E36-326
Washington, DC 20590
Phone: 202-366-0589
www.transportation.gov/research-technology and www.bts.gov

The U.S. Department of Transportation’s Office of the Assistant Secretary for Research and Technology (OST-R): Learn about OST-Rs multimodal research activities, our newest University Transportation Center grantees, and strategy plan for 2018. Take a grand tour of the world-class data tools, products, and information resources of the Bureau of Transportation Statistics and the unmatched search power of the National Transportation Library.

**Vector Corrosion Technologies**
Renee Therrien
8413 Laurel Fair Circle, Suite 200A
Tampa, FL 33610
Phone: 813-830-7566
www.vector-corrosion.com

Innovative solutions for concrete corrosion repair and protection, including embedded galvanic anodes, galvanic jackets, activated arc-spray zinc metallizing, evaluation, repair, and mitigation services for post-tension corrosion.
Exhibits (Continued)

**Work Area Protection Corporation/ASTI**
Todd Hartnett  
2500 Production Drive  
St. Charles, IL 60174  
Phone: 302-420-5723  
workareaprotection.com

Founded in 1969, Work Area Protection Corporation (WAPCO) has been a standard within the highway safety industry for almost 50 years. WAPCO manufactures a complete trailer products line, a complete LED message board line, and a complete plastics line. These products include the SCI Smart Cushion, PSC Message Boards, and ASTI Smart Work Zone Systems so stop by our booth today for a product demonstration.

**World Road Association, PIARC/AIPCR**
Robin Sébille  
Tour Pascal B 19th floor  
La Defense, 92055  
France  
Phone: 33-147-968-121  
www.piarc.org

For more than 100 years, the World Road Association (PIARC) has fostered and facilitated global discussion and knowledge sharing on roads and road transport, boasting 121 government members and retaining consultative status to the United Nations Economic and Social Council. PIARC is the world leader in the exchange of knowledge on road transport policy and practices within an integrated sustainable transport context.

**ZOYON**
Jun Xie  
No. 6 Four Street in Wuhan Science and Technology Park of the East Lake High-Tech Zone  
WUHAN, HUBEI 430223  
China  
Phone: 86-27-87196222  
www.zoyon.com.cn/en

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**Zydex Inc.**
Radhika Kiran  
106 Kitty Hawk Drive  
Morrisville, NC 27560  
Phone: 919-744-6468  
www.zydexindustries.com

Zydex has developed a broad range of Nanotechnology GREEN products that provides sustainable eco-friendly chemical technologies for the road construction industry for the 21st century. ZycoTherm - Multiple applications such as Anti-Strip, WMA, Coating/Workability/Compaction Aid and used with Polymer Modified Asphalts. NanoTac - Less tracking Tack Coat. TerraSil & ZycoBond - Dust mitigation and Soil Stabilization.

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**THE TRANSPORTATION RESEARCH BOARD**
CORDIALLY INVITES YOU TO ATTEND THE ANNUAL MEETING NETWORKING EVENTS

**Exhibit Hall Opening and Reception**
SUNDAY, JANUARY 7, 2018 | 4:00 p.m. – 7:00 p.m.

**International Participants Reception**
SUNDAY, JANUARY 7, 2018 | 7:00 p.m. – 8:30 p.m.  
Generously Sponsored by Transurban and T.Y. Lin International

**Young Professionals Reception**
SUNDAY, JANUARY 7, 2018 | 9:00 p.m. – 10:30 p.m.  
Generously Sponsored by Lyft and Stantec

**The TRB Caucuses**
- **Aviation Caucus**
  Monday, January 8  
  6:00 p.m. – 7:30 p.m.  
  CC Ballroom South Pre-Function A

- **Marine and Intermodal Caucus**
  Tuesday, January 9  
  6:00 p.m. – 7:30 p.m.  
  CC Ballroom South Pre-Function A

- **Rail and Transit Caucus**
  Tuesday, January 9  
  6:00 p.m. – 7:30 p.m.  
  CC Ballroom South Pre-Function C  
  Generously Sponsored by BNSF

- **Risk and Resilience Caucus**
  Tuesday, January 9  
  7:00 p.m. – 8:30 p.m.  
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  Generously Sponsored by AEM and Michael Baker International
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### Users

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### Vehicles and Equipment

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### Travel Analysis Methods

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<td>GIVE STUDENTS THE GIFT OF LEARNING AND NETWORKING!</td>
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The TRB Student Fellows Program supports minority students from historically black colleges and universities and Hispanic-serving institutions, and an Asian American and Native American Pacific Islander-serving institution to attend the Annual Meeting of the Transportation Research Board in Washington, D.C., and present a student-authored research paper at a poster or lectern session.

Eligible institutions select underrepresented minority students who are studying in a transportation-related curriculum to participate in this program, and designate one faculty member to accompany the students to the Annual Meeting. To be eligible, an institution must be a minority-serving institution and have a transportation-related curricula, and related research activities.

FHWA provides significant support for the program along with regional and state transportation agencies, universities, and private corporations. In addition, numerous individuals provide contributions to support this critical program.

For more information, please contact Karen Febey at kfebey@nas.edu
Thank you!
The entire TRB community sincerely appreciates and thanks the following organizations for their generous patronage of the TRB 97th Annual Meeting:

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