### **Sessions and Events**

### 9:00 a.m.-noon

- 1001 From Transport Research to Innovation: Case Study-Based Presentation of U.S. and International Experiences, CC Ballroom C
- 1002 Putting Knowledge to Work: Knowledge Management in Practice. CC 204A
- 1003 Cross-Subsidization for a Smart, Sustainable, and Equitable Future: Exploration of Opportunities and Constraints, CC 152B
- 1004 Let's Get Real About National Performance Measures, Part 1: Has the Process Driven You Mad Yet?!? (Part 2, Session 1050), CC 145B
- 1005 Bridge the Gap: Eliminating Gender Bias in Transportation Research, CC 151B
- 1006 Innovative Doctoral Research from the Dwight David **Eisenhower Transportation Fellowship Program**, CC 150B
- 1007 Implementing NCHRP Research: Case Studies and Discussion, CC 140A
- 1008 Asset Data Self-Assessment, CC 152A
- 1009 "Big" Solutions to "Little" Survey Problems: Travel Surveys, Passive Data, Visualization, and More, CC 154
- 1010 Enterprise GIS-T: Lessons Learned and Discussion of Noteworthy Practices in Standardization, CC 143B
- **1011** Building Information Modeling for Infrastructure: State-of-the-Practice Initiatives, CC 149
- **1012** Fourth Transportation Systems Resilience Exercise: Passenger and Freight Railroads in Sustainable Mobility and Resilient Supply Chains, CC 151A
- 1013 Multimodal Decision Making at the State and Metropolitan Levels, CC 145A
- **1014** Network Modeling in the Era of Automation Technologies, Big Data Analytics, and Advanced **Computing: Identifying Challenges and Pathways** to Future Breakthroughs, CC 140B
- 1015 New Paradigm for Managing Emissions from Transportation Sources, CC 144C
- **1016** Developing a Roadmap for Ecologically Sustainable Transportation, CC 144A
- **1017** Innovative Approaches to Mapping the Environmental Effects of Transportation Projects, CC 156
- **1018** Emergency Undertakings and Historic Properties: нот Assessing Measures for Dealing with Unanticipated and Catastrophic Events, CC 146A
- 1019 Transportation for a Smart, Sustainable, and Equitable Future: Lessons for Megaregion Planning from International Cases in Economic Integration, CC 146B
- 1020 In Case You Missed It: Research and Best Practices for System Interchange Designs, CC 204C
- **1021** Advances in Automated Pavement Cracking Data Collection and Analysis, CC 209C
- **1022** Improving the Performance of Underground Transportation Infrastructure: Opportunities and Challenges, CC 201
- 1023 Fiber-Reinforced Polymer Deployment in Bridges, CC 209A
- **1024** Integrated Team Building for Alternative Project Delivery, CC 143C
- 1025 Successful Quality Management on Public–Private Partnership Projects: Project Case Studies, CC 202B

- 1026 Accelerated Bridge Construction SHRP 2 R04 Toolkit, CC 204B
- 1027 Recent Developments in Cold Asphalt Recycling, CC 206
- 1028 New Insights for Testing, Resourcing, and Applying Concrete Pozzolans, Part 1 (Part 2, Session 1073), CC 207A
- **1029** Effective Moisture Measurement of Geomaterials to Improve Return on Investment, CC 209B
- 1030 Increased Use of Spread Footings on Soils to Support Highway Bridge Projects, CC 208
- 1031 Latest Advances in Large-Span Buried Bridges, CC 202A
- **1032** Doctoral Student Research in Transportation Operations and Traffic Control, CC 101
- 1033 What Do Agencies Need to Assess, Plan, and Develop the Next Generation of Traffic Management Systems?, CC Salon A
- **1034** Highlights from the 2018 Automated Vehicles Symposium, CC Salon C
- 1035 Real and Virtual Data Collection Platforms for Connected and Automated Vehicles Modeling, Calibration, and Validation, CC 103B
- 1036 Risky Business?: Exploring What Lies Ahead for Designing Roads for All Users, CC Salon B
- 1037 Three-Minute Thesis Competition: Concise Portrayal of Research Discovery to Nonspecialist Audience, CC 207B
- 1038 Safe and Sustainable Snowfighting: Managing Environmental Impacts in Winter Maintenance, CC 203
- 1039 From Silos to Safe Systems: An Integrated Response to the Global Road Safety Crisis, CC 103A
- 1040 Human–Machine Interfaces in Vehicle Automation: Inside and Outside the Vehicle. CC 102A
- 1041 What's That on the Sidewalk?: Safety Issues, Mobility Benefits, and Policy Issues of Emerging Transportation Devices, CC 102B
- 1042 Mobility on Demand: A Smart, Sustainable, and Equitable Future, Part 1 (Part 2, Session 1086), CC 150A
- 1043 Making Connections Through Art, Culture, and Design Excellence, CC 144B
- 1044 Commuter Ferry Development: A Tale of Three Cities, CC 147A
- 1045 Advancing Identified Urban Research Needs with a Focus on Last-Mile Delivery, CC 147B
- **1046** Unmanned Aircraft Systems (UASs): The Impacts of New Capabilities and New Rules on Integrating UAS into Day-to-Day Use, Part 1 (Part 2, Session 1093), CC 146C

### 9:00 a.m.-5:00 p.m.

- 1047A HF-A: The Rapid Rise in Pedestrian Fatalities: **Changing Driver and Pedestrian Behavior to Save** Pedestrian Lives (Ticket Required)
- 1047B HF-B: Moving the Needle: Advancing Infant and **Child Occupant Protection (Ticket Required)**
- 1047C HF-C: Drug and Alcohol Impairment: **Challengesfor Automated Vehicles**

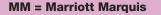
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1047D HF-D: Older Drivers Around the World (Ticket Required)

(Ticket Required)



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- TICKET 1047E HF-E: Rule Violations and Risky Behavior in the Quest for Safer Transportation (Ticket Required)
- 1047F HF-F: Safety Issues of Coexisting Human and Hot **Autonomous Machine Operations** (Ticket Required)



TICKET

- 1047G HF-G: Guiding the Design of Partially Automated Vehicles (Ticket Required)
- 1047H HF-H: Goldilocks and Information Density in the Driver Interface: How Much Is Just Right? (Ticket Required)

#### 10:00 a.m.-2:00 p.m.

Careers in Motion Networking Fair, CC Hall A

### 1:30 p.m.-4:30 p.m.

- 1048 Socioeconomic Impacts of Connected and HOT TOPIC Automated Vehicles: Workshop on the Sixth European Union–U.S. Transportation Research Symposium, CC Ballroom C
- 1049 War Games 2019: Mobility as a Service—Disruptor нот or Uniter?. CC 152B
- 1050 Let's Get Real About National Performance Measures, Part 2: We Have Data, Now What?!? (Part 1, Session 1004), CC 145B
- 1051 Preparing for Mobility Futures: The Impact of Connected and Automated Vehicle Technology on Transportation Demand Management, CC 147B
- **1052** Innovative Mobility Services and Considerations for Riders with Disabilities, CC 144B
- 1053 The "Hows" of Successful Public Transport Projects in **Developing Countries, CC 154**
- 1054 The Long Engagement: From Writing Data Management Plans to Actually Managing Data, CC 151A
- 1055 Traffic Volume Estimation on All Public Roads for Safety Analysis. CC 202B
- 1056 Hands-On Workshop for Virtual Reality in Stated IOPI Response Research, CC 103A
- 1057 From Data to Information: Enabling Modern Decision Support for Transportation Agencies, CC 151B
- 1058 Big Data Without Machine Learning Is Just Lots of Data: A Guided Tour to Big Data and Machine Learning, CC 143B
- 1059 Methods in Resilience Quantification, CC 140A
- **1060** Facilitating Equitable Outcomes: The Intersection Between Public Engagement and Equity in Transportation, CC 140B
- 1061 Progress in Improving Travel Forecasting Accuracy, CC 145A
- **1062** Fifty Years of the National Environmental Policy Act: Where Have We Been, Where Are We Going?, CC 156
- 1063 Taking Stock of Transportation Life-Cycle Assessment, CC 146A
- **1064** Emerging Technologies in Transportation: Social and Economic Benefits, Challenges, and Risks, CC 150B
- 1065 Planning for a Comprehensive Update of AASHTO's "A Policy on Geometric Design of Highways and Streets, 8th Edition", CC 208

- 1066 New National Flood Frequency Guidelines, Bulletin 17C, CC 204A
- 1067 Use of Traffic Speed Deflection Device Data in Networkand Project-Level Pavement Decisions, CC 209C
- **1068** Pavement Smoothness Specifications Lessons Learned, CC 204C
- 1069 Latest Innovations in Accelerated Bridge Construction, CC 206
- 1070 Comparison of Refined Analysis Software for Steel Girder Bridge Design, CC 207B
- 1071 E-Construction: Analyzing and Utilizing Nongraphical **Construction Data for Smarter Project Delivery,** CC 102A
- 1072 Construction Workforce Development: Case Studies in Asphalt Road Building, CC 201
- **1073** New Insights for Testing, Resourcing, and Applying Concrete Pozzolans, Part 2 (Part 1, Session 1028), CC 207A
- 1074 Extreme Weather Impacts on Geohazards: Lessons Learned and Methods to Incorporate Resilience to Geotechnical Assets, CC 209A
- **1075** Aggregate Quality Requirements for Pavements: Findings of NCHRP Synthesis 524, CC 209B
- 1076 Design, Construction, and Performance Issues of Mechanically Stabilized Earth Walls Constructed Atop Soft Foundation Soils, CC 202A
- 1077 Design and Performance of Porous Pavement, CC 204B
- 1078 Building a Managed Lane Network That Incorporates Future Needs and Provides Regional, Multimodal Alternatives, CC Salon B
- **1079** Modeling Uncertainties in Cooperative Automated нот Vehicles, CC Salon C
- 1080 Resilience, Safety, and Security of Bridges and Tunnels: U.S. and International Topics, CC 203
- **1081** Sexual Harassment in and Around the Workplace and the Public Space: Agency Responsibilities, CC 103B
- 1082 National Toward Zero Deaths Strategy: Roadmap to Implementation, CC Salon A
- 1083 Driver Behavior in an Era of New Technologies: Implications for Theory and Training, CC 101
- 1084 Uncontrolled Crosswalks: What's New, What's Needed, CC 102B
- 1085 Transit Asset Management: You Have a Plan, Now What?, CC 149
- 1086 Mobility on Demand: A Smart, Sustainable, and Equitable Future, Part 2 (Part 1, Session 1042), CC 150A
- 1087 Building a Resilient Rail Transit, CC 152A
- 1088 Sustainability in Intercity Rail: Innovations in the Technology, Planning, and Operation of Intercity Services, CC 143C
- 1089 Railroad Track Monitoring and Big Data, CC 144A
- **1090** Smart Initiatives and Intelligent Transportation Systems Applications for Efficient and Sustainable Freight Mobility, CC 144C
- 1091 Standardizing the Calculation and Reporting of Freight Transport Emissions on a Global Scale, CC 143A
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# Sessions, Events, and Meetings: Sunday, January 13 (Continued)

- 1092 Universal Design at Airports: Today's Problems and Viable Solutions for Passengers with Disabilities, CC 147A
- 1093 Unmanned Aircraft Systems (UASs): Impacts of New Capabilities and New Rules on Integrating UAS into Day-to-Day Use, Part 2 (Part 1, Session 1046), *CC 146C*

### 1:30 p.m.-5:30 p.m.

1094 Doctoral Research in Transport Modeling, CC 146B



### 2:30 p.m.-4:00 p.m.

New Attendee Orientation–TRB Bootcamp, 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)

### 7:00 p.m.-8:30 p.m.

International Participants Welcome Reception, CC Ballroom South Pre-Function A

riving

### 9:00 p.m.-10:30 p.m.

Young Professionals Reception (sponsored by Stantec), CC Ballroom South Pre-Function C

### Meetings

### 8:00 a.m.-9:00 a.m.

Traffic Signal Systems Research Subcommittee,	AHB25
AHB25(2), MM Liberty N (M4)	

### 8:00 a.m.-noon

Technical Activities Council (by invitation), MM Cherry Blossom (Mezz)	A0000
Highway Capacity and Quality of Service Group 2: Uninterrupted Flow Group, AHB40(2.0), MM Monument (M4)	AHB40
Highway Capacity and Quality of Service Group 3: Interrupted Flow Group, AHB40(3.0), <i>MM Supreme</i> <i>Court (M4)</i>	AHB40
9:30 a.m.–10:45 a.m.	

Simulation of Traffic Signal Systems Subcommittee, AHB25 AHB25(3), *MM Liberty N (M4)* 

### 11:00 a.m.-12:15 p.m.

Traffic Signal Systems Technology and Standards AHB25 Subcommittee, AHB25(4), *MM Liberty N (M4)* 

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# Sessions, Events, and Meetings: Sunday, January 13 (Continued)

International Activities Subcommittee, E0004 (by invitation), <i>MM Gallery Place (M3)</i>	E0000
Noon-2:00 p.m.	
Technical Activities Council and Section Chairs' Lunch (by invitation), <i>MM Magnolia (Mezz)</i>	A0000
1:00 p.m.–5:00 p.m.	
Highway Capacity and Quality of Service Group 1: Administration, AHB40(1.0), MM Monument (M4)	AHB40
Highway Capacity and Quality of Service Group 4: Cross-Cutting Issues, AHB40(4.0), <i>MM Supreme</i> <i>Court (M4)</i>	AHB40
1:30 p.m.–3:00 p.m.	
Freeway and Connected Automated Vehicles Simulation Subcommittee, AHB20(2), MM Marquis Ballroom Salon 1 (M2)	AHB20

### 1:30 p.m.-4:30 p.m.

Planning for the Conference on Small and Medium-Sized Communities Subcommittee, ADA30(1), MM Independence A (M4)	ADA30
Pavement Management Systems International Conferences Subcommittee, AFD10(3), MM Dogwood (Mezz)	AFD10
<b>Committee Research Coordinator Meeting,</b> MM Marquis Ballroom Salon 5 (M2) `	AHD00
2:00 p.m.–3:30 p.m.	
Asset Management for Traffic Signal Systems Subcommittee, AHB25(6), MM Liberty N (M4)	AHB25
3:00 p.m.–5:00 p.m.	
Freeway Management Handbook Subcommittee, AHB20(1), MM Marquis Ballroom Salon 1 (M2)	AHB20
International Symposia on Geometric Design, Joint Subcommittee, AHB65(6), MM Marquis Ballroom Salon 16 (M2)	AHB65
3:30 p.m4:30 p.m.	

Multimodal Traffic Signal Systems Subcommittee, AHB25 AHB25(5), *MM Liberty N (M4)* 

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## Sessions, Events, and Meetings: Sunday, January 13 (Continued)

4:00 p.m.–5:30 p.m.	
Design and Construction Group Younger Members Subcommittee, AF000(2), MM Cherry Blossom (Mezz)	AF000
4:00 p.m6:00 p.m.	
New Chair Orientation, MM Liberty K (M4)	AN000
4:30 p.m.–5:30 p.m.	
Traffic Signal Systems Education Subcommittee, AHB25(7), MM Liberty N (M4)	AHB25
5:00 p.m.–6:30 p.m.	
Freeway Operations Research Subcommittee, AHB20(3), MM Marquis Ballroom Salon 1 (M2)	AHB20
5:30 p.m7:30 p.m.	
Design and Construction Group Leadership Reception (by invitation), <i>MM Marquis Ballroom Salon 6 (M2)</i> Young Members Council—Freight Systems and Marine Group Subcommittee, AT000(1), <i>MM Scarlet Oak (Mezz)</i>	
5:30 p.m.–8:00 p.m.	
Joint Meeting of the Freight Systems and Marine Group Executive Boards (by invitation), MM Capitol Hill (M3)	AT000 AW000
6:00 p.m.–8:00 p.m.	
<b>Operations and Preservation and Safety and System</b> <b>Users Groups Leadership Reception</b> (by invitation), <i>MM Independence C (M4)</i>	AH000 AN000

### 6:00 p.m.-9:00 p.m.

Data and Information Systems Section Executive	ABJ00
Board (by invitation), MM Magnolia (Mezz)	

### 6:00 p.m.-9:30 p.m.

Transportation System Policy, Planning, and Process ADA00 Section Executive Board (by invitation), *MM Farragut North (M3)* 

### 6:30 p.m.-7:30 p.m.

Emerging Freeway Operations Concepts Subcommittee AHB20 AHB20(6), MM Marquis Ballroom Salon 1 (M2)

### 7:00 p.m.-9:00 p.m.

Safety and System Users Sections Executive Boards AN000 (by invitation), *MM George Washington University (M1)* 

### 7:30 p.m.-9:00 p.m.

Smart Freeway Operations Infrastructure Subcommittee, AHB20(4), MM Marquis Ballroom Salon 1 (M2)	AHB20
7:30 p.m.–10:00 p.m.	
Rockfall Management Subcommittee, AFP10(1), MM Cherry Blossom (Mezz)	<b>AFP</b> 10

Unbound Granular Materials Subcommittee, AFP70(1), AFP70 MM Dogwood (Mezz)

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