

Sunday, January 12, 2020

Annual TTI Reception 6:00 p.m. - 7:30 p.m. Marriott Marquis, Marquis Ballroom Salon 5 (Level M2)

12-Jan

Sun

Begin	End	Session No.	Title	Role/Member
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9:00 AM	12:00 PM	Workshop	1029	Doctoral Student Research in Transportation Operations and Traffic Control
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A Real-time Algorithm for Network Signal Control

Presenting: C. Ma

9:00 AM	12:00 PM	Workshop	1044	Freight Beyond the City: Approaches to Improving Freight Mobility in the Suburban Context
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Presiding: W. Eisele

9:00 AM	12:00 PM	Workshop	1031	Highlights from the 2019 Automated Vehicle Symposium
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What the Public Really Thinks About Automated Vehicles: Evidence from Survey Research

Presenting: J. Zmud

9:00 AM	12:00 PM	Workshop	1016	Impacts Connected and Automated Vehicles Could Have on Geometrics
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Presenting: E. Seymour

12-Jan

Sun

Begin	End	Session No.	Title	Role/Member
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9:00 AM	12:00 PM	Workshop	1004	Speed Management
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				Preliminary Indications from NCHRP 17-76 Guidance for the Setting of Speed Limits
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				Presenting: K. Fitzpatrick
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9:00 AM	12:00 PM	Workshop	1032	The Advancement of Modeling Connected and Automated Vehicles: Past and Future
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				Benefits of Connectivity for Automatic Vehicle Following Systems
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				Presenting: S. Darbha
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9:00 AM	12:00 PM	Workshop	1033	The Nexus of Speed Management and Human Factors as a Focal Point of Safe Systems
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				Posted Speed Limit Trends
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				Presenting: K. Fitzpatrick
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				Foundation for the Future-Safe Systems Approach to Speed
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				Presenting: R. Wunderlich
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9:00 AM	12:00 PM	Workshop	1030	Vision, Concepts, Use Cases, and Capabilities for the Next Generation of Traffic Management Systems
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				Moderator: B. Kuhn
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1:30 PM	4:30 PM	Workshop	1074	Applying Your Multimodal Access Management Toolbox
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				Overview: Access Management Application Guide
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				Presenting: K. Dixon
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1:30 PM	4:30 PM	Workshop	1067	Cracking Characterization of Asphalt Materials: Challenges to Consider for Implementation
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				Panel Discussion: Other Researchers & Speakers
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				Panel Member: A. Epps-Martin
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12-Jan

Sun

Begin

End

Session No.

Title

Role/Member

1:30 PM

4:30 PM

Workshop

1075

Joint Sealing Matters

Role of Joint Sealants in Concrete Pavement Performance

Presenting: D. Zollinger

1:30 PM

4:30 PM

Workshop

1071

Managed Lanes: Lessons Learned from the Past, Bold Predictions for the Future

Why Do Motorists Choose to Use a Managed Lane Facility?

Panel Member: M. Burris

I-30 HOV: 30 Years of Operations

Panel Member: N. Wood

1:30 PM

4:30 PM

Subcommittee ADA30(1)

Planning for the Conference on Small and Medium-Sized Communities Subcommittee, ADA30(1)

Presiding: W. Frawley

1:30 PM

4:30 PM

Workshop

1082

Preparing the Emerging Autonomous Vehicle Market for Paratransit Services and Meeting the Needs for Persons with Disabilities

Perspectives of the Consumers

Co-Author(s): J. Hwang

5:30 PM

8:00 PM

Joint Meeting of the Freight Systems and Marine Group Executive Boards

Invitation Only

Presiding: J. Kruse

7:00 PM

9:00 PM

Safety and System Users Sections Executive Boards

Invitation Only

Presiding: S. Chrysler

13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
8:00 AM	9:45 AM	Poster Session 1157	Advances and Innovations in Urban Freight Transportation Planning	
			Guidance to Facilitate Implementation of Effective Metropolitan Freight Transportation Strategies	Co-Author(s): M. Monsreal, W. Eisele, S. Guo
8:00 AM	9:45 AM	Poster Session 1136	Congestion Pricing and Managed Lane Showcase, Part 1	
			2019 FHWA National Inventory of Specialty Lanes and Roads	Co-Author(s): N. Wood, V. Gupta, J. Cardenas
			Case Study of the Dallas I-30 Movable Barrier System	Co-Author(s): N. Wood
8:00 AM	9:45 AM	Lectern Session 1132	Current Research in Intermodal Freight Transportation	
			Benefits of Technology Adoption for Enhanced Integration of Port-Hinterland Operations	Co-Author(s): M. Monsreal, J. Villa
8:00 AM	9:45 AM	Lectern Session 1126	Current Research in Motorcycle Safety—Hybrid Session	
			Severity Analysis of Roadway Departure Motorcycle Crashes As They Relate to Roadside Fixed Objects and Safety Systems	Co-Author(s): B. Dadashova, C. Silvestri-Dobrovolny, M. Perez, J. Chauhan, R. Bligh
8:00 AM	9:45 AM	Lectern Session 1112	Doctoral Research in Asphalt: Blended Podium and Poster Session	
			Development of Performance Testing for Low Temperature Cracking and Reflective Cracking in Asphalt Mixtures and Application in QC/QA	Presenting: P. Arabali

13-Jan

Mon

Begin	End	Session No.	Title		Role/Member
8:00 AM	9:45 AM	Lectern Session	1112	Doctoral Research in Asphalt: Blended Podium and Poster Session	
				Multiscale Characterization of the Influence of Aging and Recycling Agents on the Properties of High RAP Binders	Presenting: A. Abdelaziz
8:00 AM	9:45 AM	Lectern Session	1098	Emerging Methods in Statistical and Econometric Modeling	
				Bayesian Analysis of Multivariate Crash Counts Using Copulas	Presenting: E. Park
8:00 AM	9:45 AM	Poster Session	1142	Freeway Operations 2020	
				Pilot Study on Dynamic Ramp Metering in Houston: Preliminary Results from Phase I Study	Co-Author(s): H. Zhou
8:00 AM	9:45 AM	Lectern Session	1117	Geosynthetics in Pavements: Lab and Field Testing	
				Field Performance of Geocell Reinforced Recycled Asphalt Pavement (RAP)-Base Layer	Co-Author(s): A. Puppala
8:00 AM	9:45 AM	Lectern Session	1114	How Tired Is My Asphalt?: Recent Developments in Asphalt Binder Fatigue Characterization	
				NCHRP 1-52 - A Mechanistic-Empirical Model for Top-Down Cracking of Asphalt Pavement Layers	Presenting: M. Ling
8:00 AM	9:45 AM	Poster Session	1143	Managed Lane and Congestion Pricing Showcase, Part 2	
				Comparing Regional Vehicle Emission Impacts of Different Tolling Schemes	Co-Author(s): F. Sharifi, J. Shelton, Y. Xu

13-Jan

Mon

Begin	End	Session No.	Title		Role/Member
8:00 AM	9:45 AM	Lectern Session	1125	Research on Safe Mobility of Older Persons	
				Evaluation of Advanced Driver-Assistance System Trainings for Older Adults	Co-Author(s): M. Zahabi, A. Razak, R. Mehta, M. Manser
8:00 AM	9:45 AM	Lectern Session	1115	Resilient Modulus and Compaction Advances	
				Effects of Gyratory Compaction of Granular Materials in the Laboratory on the Engineering Properties	Co-Author(s): P. Arabali, S. Lee, R. Lytton, M. Sakhaeifar, S. Sebesta
8:00 AM	9:45 AM	Lectern Session	1118	Soil Stabilization for Unusual Soils and Environmental Conditions	
				Evaluating the Long-Term Durability of Lime Treatment in Hydraulic Structures: A Case Study on the Friant-Kern Canal	Co-Author(s): N. Hariharan, P. Akula, D. Little
8:00 AM	9:45 AM	Poster Session	1152	Technical Practices and Tools for Improving Rural and Tribal Transit	
				Application Tool for Two-Variable Cost Allocation for Small Urban, Rural, and Tribal Transit Agencies	Co-Author(s): T. Hansen, M. Walk, S. Tan
8:00 AM	9:45 AM	Lectern Session	1120	Traffic Flow Modeling for Connected Automated Vehicles	
				A Game-Theory Based Framework for Modeling Pedestrian-Vehicle Interactions	Presenting: Y. Rahmati
8:00 AM	9:45 AM	Poster Session	1154	Urban Rail Development and Operations	
				Mining Public Transit Ridership Flow and Origin-Destination Information from Wi-Fi and Bluetooth Sensing Data	Co-Author(s): X.Guo

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Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Poster Session 1211	Advances in Artificial Intelligence Applications in Transportation and Road Infrastructure, Part 1	
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			Identifying High-Risk Intersections for Walking and Bicycling Using Multiple Data Sources in the City of San Diego	Co-Author(s): I. Sener, S. Munira, S. Turner
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			Towards Predicting Traffic Shockwave Formation and Propagation: A Convolutional Encoder-Decoder Network	Presenting: M. Hosseini
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10:15 AM	12:00 PM	Lectern Session 1162	Applications Natural Language Processing in Transportation Science	
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			Transportation Research Record Articles: A Case Study of Trend Mining	Co-Author(s): S. Das, M. Brewer
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10:15 AM	12:00 PM	Poster Session 1217	Calibration of Mechanistic-Empirical Asphalt Pavement Design Systems	
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			Local Calibration of Pavement ME Design for Flexible Pavements in Oklahoma	Co-Author(s): M. Tabesh, M. Sakhaeifar
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10:15 AM	12:00 PM	Lectern Session 1178	Cone Penetration Methods in Geotechnical and State of Practice	
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			Site Characterization and Visualization Using Seismic Cone Penetration Tests	Co-Author(s): A. Puppala
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10:15 AM	12:00 PM	Lectern Session 1191	Evaluation of Signs and Markings Based on User Needs	
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			On-road Signage and Driver Distraction: An Application of Machine Learning	Co-Author(s): M. Zahabi, A. Razak, S. Stolte
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13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1198	Global Trade Disruptions: Impacts on the Transportation System	Presiding: J. Villa
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10:15 AM	12:00 PM	Poster Session 1219	Granular Materials and Aggregates	
			A Practical Gravel Loss Prediction Model for Local Agencies	Co-Author(s): H. Jeong, M. Yaw

10:15 AM	12:00 PM	Lectern Session 1176	High Recycled Asphalt Pavement Contents in Asphalt Mixtures, Part 1: Pros, Cons, and Fundamentals	
			Recycled Materials and Rejuvenators	Presenting: A. Epps-Martin

10:15 AM	12:00 PM	Subcommittee AHBJ35(4)	Highway Traffic Monitoring Research Subcommittee, ABJ35(4)	Presiding: I. Tsapakis
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10:15 AM	12:00 PM	Poster Session 1225	Innovations in Traffic Marking and Sign Materials	
			Evaluation of Structured Pavement Markings	Co-Author(s): A. Pike

10:15 AM	12:00 PM	Poster Session 1221	Operational Effects Medley	
			Driveway Access Spacing Considerations for Rural Highways with High Truck Volumes	Co-Author(s): M. Brewer, K. Fitzpatrick, J. Cline

10:15 AM	12:00 PM	Poster Session 1231	Safety, Traffic, and Maintenance Management on Low-Volume Roads	
			Estimating Truck Traffic Generated from Well Developments on Low-Volume Roads	Presenting: I. Tsapakis

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Begin

End

Session No.

Title

Role/Member

10:15 AM

12:00 PM

Poster Session 1215

Sustainable, Recycled, and Intelligent
Pavement MaterialsPerformance of Hot and Cold Recycled Mixtures with High
Reclaimed Asphalt Pavement (RAP) ContentCo-Author(s): E. Arambula
Mercado, S. Hu

12:15 PM

1:15 PM

Subcommittee ABJ10(1)

Long Distance and Intercity Travel,
ABJ10(1), Joint Subcommittee of ABJ10,
ABJ00, ABJ40Trends at the Intersection of Business/Leisure Travel and
Urban Mobility

Presenting: J. Zmud

12:15 PM

3:15 PM

Geotechnical Engineering Section Executive
Board*Invitation Only*

Presiding: A. Puppala

1:30 PM

3:15 PM

Poster Session 1278

Advances in Artificial Intelligence
Applications in Transportation and Road
Infrastructure, Part 2

Presiding: Y. Zhang

1:30 PM

3:15 PM

Lectern
Session

1256

Advances in Inspection and Planning for
Marking and Sign MaterialsImpacts of Glass Bead Refractive Index and Measurement
Geometry on Pavement Marking Retroreflectivity

Co-Author(s): A. Pike, S. Datta

Delineator Impact Durability New Standard Development and
Testing Evaluation

Co-Author(s): N. Schulz

13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
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1:30 PM	3:15 PM	Lectern Session 1241	Current Trends in Landscape and Environmental Design	
			Managing Urban Freeway Roadsides	Co-Author(s): B. Storey, J. Habermann

1:30 PM	3:15 PM	Lectern Session 1243	Design and Analysis of Pavement Friction and Texture	Presiding: E. Fernando
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1:30 PM	3:15 PM	Lectern Session 1239	Hot Topics and Emerging Issues in Ecology and Transportation	
			Episodic, Pulsed Brown Pelican (<i>Pelicanus occidentalis</i>) Mortality on South Texas Roads: Causes and solutions	Co-Author(s): A. Birt, F. Sharifi, A. Abianeh

1:30 PM	3:15 PM	Poster Session 1285	New Trends in Research on Human Factors and Vehicle User Characteristics	
			Influencing Factors of Drivers' Hazard Perception under Plateau Environment: Experiment and Modeling	Co-Author(s): Y. Zhang
			Examining Driver Distraction as a Function of Driving Speed: An Observational Study using Disruptive Technology and Naturalistic Data	Co-Author(s): K. Lio, X. Guo, D. Lord

1:30 PM	3:15 PM	Poster Session 1283	Recent Work on Bridge Management and Testing and Evaluation of Bridges	
			Network-Level Markov Chain-Based Bridge Performance Prediction Models that Consider the Effects of Maintenance and Rehabilitation	Co-Author(s): F. Wang, C. Lee, N. Gharaibeh, E. Park

13-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
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1:30 PM	3:15 PM	Poster Session 1284	Transportation Safety Management from Start to Finish	
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			A Linear Poisson Autoregressive Model for Analyzing Dynamic Fatal Traffic Accident Data	Co-Author(s): L. Wu
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			Investigating Factors that Contributed to the Large Reduction and Subsequent Increase in Roadway Fatalities in the United States between 2005 and 2016	Co-Author(s): D. Lord, S. Geedipally, L. Wu, R. Wunderlich
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			Vehicle Occupants and Driver Behavior: An Assessment of Vulnerable User Groups	Co-Author(s): M. Martin, L. Green, B. Chigoy, E. Shipp, R. Mars
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1:30 PM	3:15 PM	Lectern Session 1253	Up to Speed: Safety and Operational Effects of Road Design	
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			Vehicle Speeds on Rural Four-Lane Highway Curves: A Cross-Sectional Study	Co-Author(s): M. Pratt, S. Geedipally, M. Le
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1:30 PM	3:15 PM		Urban Freight Transportation Committee	Presiding: W. Eisele
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1:30 PM	5:30 PM		Roadside Safety Design Committee	Presiding: R. Bligh
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3:45 PM	5:30 PM	Lectern Session 1304	Bridge Load Rating	
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			Steel Bridge Load Rating Impacts due to Autonomous Truck Platoons	Co-Author(s): R. Tohme, M. Yarnold
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13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
3:45 PM	5:30 PM	Poster Session 1346	Current Issues in Aviation	
			Modeling Travel Mode Choices near Transportation Hubs: The Case of Dallas-Fort Worth Airport Using Revealed Survey Data	Co-Author(s): X. Xu
3:45 PM	5:30 PM	Poster Session 1342	Current Research in User Information Systems	
			The Influence of Creative Advertisements in Bus Rear-End Safety Campaign	Co-Author(s): B. Dai, J. Hudson, E. Park, C. Simek
			Safety Evaluation of Fog Warning System in Connected Vehicle Environment Based on Sample Entropy	Co-Author(s): Y. Zhang
3:45 PM	5:30 PM	Lectern Session 1300	Fiber Optic Cables and Small Cell Nodes in the Highway Right of Way: Lessons Learned	Presiding: C. Quiroga
			Generation of Revenue for State DOTs from Communication Utilities in the Public Right of Way	Presenting: E. Kraus
3:45 PM	5:30 PM	Poster Session 1332	Information and Communications Technologies, Smartphones, Activity Patterns, and Travel Choices	
			Modeling Stated Preference for Travelers' Responses to Rerouting Advice: A Comparison of Machine Learning and Discrete Choice Models	Co-Author(s): A. Abianeh, M. Burris, W. Li
3:45 PM	5:30 PM		International Trade and Transportation Committee	Presiding: J. Villa

13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM	Lectern Session	1289	Making Autonomous Vehicles Accessible for All
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Mobility Issues of People with Disabilities and the Potential of Autonomous Vehicle Transportation: Findings from Focus Group Studies

Co-Author(s): J. Hwang, W. Li, L. Stough, C. Lee, K. Turnbull

Accelerating Mobility for All: Analysis of Focus Group Feedback from Persons with Disabilities Following Autonomous Vehicle Rides

Co-Author(s): J. Hwang

3:45 PM	5:30 PM	Poster Session	1334	NCHRP IDEA Poster Session
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Project 195: Use of the IDEAL Cracking Test for QC/QA: Practical Issues and Solutions

Presenting: F. Zhou

3:45 PM	5:30 PM	Poster Session	1338	Safety Data, Analysis, and Evaluation, Act I: GPS, Naturalistic Driving, Toll, and Other Emerging Data Sources
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Understanding Speeding Behavior from Naturalistic Driving Data: Applying Classification Based Association Mining

Co-Author(s): X. Kong, S. Das, K. Jha, Y. Zhang

The Effect of Risk Propensity on the Crash Risk: Evidence from Lottery Sales and Fatal Crashes in Texas

Co-Author(s): H. Zhou

Rethinking Highway Safety Analysis by Leveraging Crowdsourced Waze Data

Co-Author(s): X. Li, B. Dadashova, S. Turner, D. Goldberg

13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM	Poster Session 1339		
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			Safety Data, Analysis, and Evaluation, Act II: Deep Learning, Induced Exposure, and Other Sophisticated Methods	
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			A Simulation Analysis to Study the Temporal and Spatial Aggregations of Safety Datasets with Excess Zero Observations	Co-Author(s): S. Geedipally, D. Lord
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			A Penalized-Likelihood Approach to Characterizing Bridge-Related Crashes in New Jersey	Co-Author(s): S. Das
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3:45 PM	5:30 PM	Lectern Session 1316		
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			Safety Management in a World of Connected and Automated Vehicles—Hybrid Session	
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			Traffic Collisions Involving Autonomous Vehicles in California: Bayesian Model Based Clustering	Co-Author(s): S. Das, I. Tsapakis
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			Crash Themes in Automated Vehicles: A Topic Modeling Analysis of the California Department of Motor Vehicles Automated Vehicle Crash Database	Co-Author(s): H. Alambeigi, A. McDonald, S. Tankasala
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3:45 PM	5:30 PM	Poster Session 1341		
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			Truck and Bus Safety Research	
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			Uncovering Deep Structure of Determinants in Large Truck Fatal Crashes	Co-Author(s): S. Das
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3:45 PM	5:30 PM	Lectern Session 1306		
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			Young Geotechnical Professionals in Transportation	
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			A Novel Approach of Monitoring Infrastructure Asset Condition using Aerial Sensors	Presenting: S. Congress
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13-Jan

Mon

Begin	End	Session No.	Title	Role/Member
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6:00 PM	7:30 PM	Poster Session 1358	Focus on Pedestrian and Bicycle Safety	
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			Pedestrian Collisions with Bicyclist: Emotion Mining using YouTube Data	Co-Author(s): S. Das, X. Kong, R. Wang, A. Mahmoudzadeh
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			Identifying High Risk Locations to Address Pedestrian Safety Issues	Co-Author(s): S. Geedipally, M. Le, K. Fitzpatrick, R. Avelar
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6:00 PM	7:30 PM	Lectern Session 1349	Pedestrian Hybrid Beacons and Enhanced Crosswalk Signage	
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			Pedestrian Safety at Pedestrian Hybrid Beacons: Results of a Large-Scale Study in Arizona	Co-Author(s): K. Fitzpatrick, E. Park, M. Pratt
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			How Well Do Pedestrian Hybrid Beacons Operate on Higher-Speed Roads?	Co-Author(s): K. Fitzpatrick, M. Pratt
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			How do LED-Embedded Pedestrian Crossing Signs Compare to RRFBs and PHBs?	Co-Author(s): E. Rista, K. Fitzpatrick
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6:00 PM	7:30 PM	Subcommittee AFB20(1)	Roadside Safety Design Computational Mechanics Subcommittee, AFB20(1)	Presiding: N. Sheikh
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6:00 PM	7:30 PM	Poster Session 1356	Safety Data, Analysis, and Evaluation, Act IV: Rollover, Trucks, Wildlife, and Other Crash Circumstances Explored	
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			Factors Contributing to Single-Vehicle and Multiple-Vehicle Crashes on Express Lane Facilities	Co-Author(s): B. Kutela
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13-Jan

Mon

Begin

End

Session No.

Title

Role/Member

6:00 PM

7:30 PM

Vehicle Intrusion Mitigation in Work Zones,
AHB55(1)

Presiding: M. Finley

6:00 PM

7:30 PM

Lectern
Session

1359

What Is Novel and Innovative in Novice and
Experienced Driver Behavior
Research—Hybrid Session

Deterring Distraction and Risky Driving Behavior among Teens
Using a Smartphone App: Characterization and Impact

Co-Author(s): S. Munira, R. Henk

14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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7:00 AM	8:00 AM	Subcommittee ABJ70(1)	Artificial Intelligence and Advanced Computing Research Subcommittee, ABJ70(1)	Presiding: Y. Zhang
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8:00 AM	9:45 AM	Poster Session 1408	Advances in Traffic Monitoring	
			Average Annual Daily Traffic Estimation by Mobile Device Footprint Cardinality	Co-Author(s): K. Lio, D. Lord, Y. Zhang

8:00 AM	9:45 AM	Committee	Aviation System Planning Committee	Presiding: J. Borowiec
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8:00 AM	9:45 AM	Lectern Session	1379	Building a Foundation for the Future Through Innovative Construction Research	
				TBD	Presenting: S. Anderson

8:00 AM	9:45 AM	Lectern Session	1382	Characterization of Moisture Damage in Asphalt Mixtures	
				Development of the Adhesive and Cohesive Moisture Damage Models for Asphalt Concrete	Co-Author(s): M. Sakhaeifar, R. Lytton

8:00 AM	9:45 AM	Poster Session	1214	Current Issues in Transportation and Air Quality	
				AERMOD for Near-Road Pollutant Dispersion: Sensitivity to Source and Dispersion Related Parameters	Co-Author(s): M. Askariyeh, J. Zietsman

14-Jan

Tue

Begin

End

Session No.

Title

Role/Member

8:00 AM

9:45 AM

Poster Session 1214

Current Issues in Transportation and Air Quality

Using Vehicle Telematics Data to Characterize Drayage Heavy-Duty Truck Idling

Co-Author(s): R. Farzaneh, J. Johnson, R. Jaikumar, T. Ramani, J. Zietsman

Near-road Air Quality Data Exploration: Assessment of Impact of Traffic, Meteorology and Background Concentration

Co-Author(s): S. Vallamsundar, R. Jaikumar, R. Farzaneh, M. Askariyeh

Streamlined Data Processing for Region-wide Applications of Line Source Dispersion Modeling Via Distributed Computing

Co-Author(s): X. Xu

8:00 AM

9:45 AM

Poster Session 1431

Current Research in Freight Transportation Economics and Regulation

Development of a “Fair” Marketplace for On-Demand Capacity Matching

Co-Author(s): E. Iakovou

8:00 AM

9:45 AM

Lectern
Session

1389

Current Topics in Equipment and Fleet Management

Assessment of Near-Cab Air Quality for Nonroad Diesel Equipment

Co-Author(s): M. Lewis, S. Khouly

Equipment Life Cycle Cost Analysis Tool for Local Agencies

Co-Author(s): H. Alikhani, H. Jeong

8:00 AM

9:45 AM

Poster Session 1409

Innovative Research and Applications for Freight Data Collection and Analysis

Presiding: M. Monsreal

14-Jan

Tue

Begin	End	Session No.	Title		Role/Member
8:00 AM	9:45 AM	Lectern Session 1384	Integration of Remote Sensing Techniques and Classical Instrumentation		
			Infrastructure Inspection: Complimenting Traditional Methods with Aerial Remote Sensing		Co-Author(s): S. Congress, A. Puppala
8:00 AM	9:45 AM	Poster Session 1424	Research on Highway-Rail Grade Crossings		
			Revisiting Crash Fatality Classification for Modelling Highway-Rail Grade Crossings Crashes Severity		Co-Author(s): B. Kutela
8:00 AM	9:45 AM	Lectern Session 1374	Safety Effects of Geometric Design Elements and Site Conditions		
			Determining Skid Resistance Needs on Horizontal Curves for Different Levels of Precipitation		Co-Author(s): S. Geedipally, S. Das, M. Pratt, D. Lord
8:00 AM	9:45 AM	Lectern Session 1388	Speed Feedback Signs, Curve Warning Treatments, and the History/Future of Traffic Control Devices		
			A Century of Traffic Control Devices and What Lies Beyond		Co-Author(s): G. Hawkins
8:00 AM	9:45 AM	Poster Session 1423	Traffic Control Device Research		
			Evaluation of the Detectability of Pavement Marking Tape by Machine Vision Systems		Co-Author(s): T. Barrette, A. Pike
8:00 AM	9:45 AM	Poster Session 1407	Workforce Development Challenges and Solutions		
			A Markov Decision Process Based Hint Generation Mechanism for Transportation Education		Co-Author(s): H. Khosravian

14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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8:00 AM	12:00 PM	Committee	Freeway Operations Committee (Part 1 of 2)	Presiding: B. Kuhn
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10:15 AM	12:00 PM	Poster Session 1503	Accelerating the Velocity of Marine Transportation and Port Technologies: Moving Freight Faster and More Transparently, Reliably, and Safely	
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			Connecting the Dots between Marketing and Port Development Characteristics: A Multi-Case Content Analysis of Major U.S. Ports	Presenting: D. de Melo
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10:15 AM	12:00 PM	Lectern Session 1449	Advances in Transportation Construction Management	Presiding: H. Jeong
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10:15 AM	12:00 PM	Poster Session 1493	Affect of Weather on Driver Behavior	
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			Flooding related Traffic Crashes: Findings from Association Rules	Co-Author(s): S. Das, S. Goel, I. Narsaria
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10:15 AM	12:00 PM	Lectern Session 1453	Bridge Approach Repair and Mitigation Measures	
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			Bump at Approach Slab: Underlying Factors Causing Them and Solutions Studied in Texas	Co-Author(s): A. Puppala, S. Congress
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10:15 AM	12:00 PM	Lectern Session 1437	Building Information Modeling for Infrastructure: National Strategic Roadmap Strategies for Implementation	
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			BIM for Roads, Structures, Utilities, Traffic, Survey, and UAS/LiDAR/AR/VR/AI	Co-Author(s): C. Quiroga
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14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Poster Session 1497	Case Studies in Performance-Based Analysis of Geometric Design	
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			Google Street View Roadway Geometric Inventory: A Case Study for Advancing Performance-Based Design	Co-Author(s): S. Das
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10:15 AM	12:00 PM	Lectern Session 1440	Communicating with John and Jane Q. Public About Transportation Funding	Presiding: T. Parker
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10:15 AM	12:00 PM	Lectern Session 1457	Connected and Automated Vehicle Technologies Changing the Way Managed Lanes Operate	
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			Performance Analyses of Information Based Managed Lane Choice Decisions in a Connected Vehicle Environment	Co-Author(s): X. Guo, Y. Peng, S. Ashraf, M. Burris
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10:15 AM	12:00 PM	Poster Session 1488	Current Issues in Alternative Transportation Fuels and Technologies	
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			Synthetic Control Methods for Estimating the Effect of Purchase Incentives on Battery Electric Vehicles Sales in Georgia, USA	Co-Author(s): X. Xu
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			A Sensitivity Analysis of Electric Vehicle Energy Efficiency, Driving Range, and Operating Cost Using Regional-level Household Daily Travel Patterns	Co-Author(s): X. Xu
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			A Framework for Assessing Fleet-wide Transit Bus Energy Consumption with Alternative Fuels	Co-Author(s): X. Xu
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14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Poster Session 1487		
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			Current Issues in Transportation Energy	
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			Impacts of En-Route Decisions within a Connected Vehicle Environment on Network-Wide Traffic Operation and Fuel Consumption under Various Incident Scenarios	
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				Co-Author(s): A. Abianeh, M. Burris
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10:15 AM	12:00 PM	Lectern Session 1433		
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			Enabling Environments for Accessible Transport	
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				Presiding: T. Hansen
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10:15 AM	12:00 PM	Lectern Session 1447		
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			Impact of External Factors on Asphalt Pavement Design and Performance	
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			Impact of Flooding on the Service Life of Inundated Flexible Pavements	
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				Co-Author(s): C. Gurganus, A. Seo, J. Prozzi
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10:15 AM	12:00 PM	Poster Session 1501		
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			Improving Track Performance, Inspection, and the Effectiveness of Programmed Maintenance	
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			A Comparative Study of Shear Behavior of Railway Ballast Based on Large-scale Direct Shear, Direct Simple Shear, and Triaxial Tests	
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				Co-Author(s): M. Kharanaghi, J. Briaud
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10:15 AM	12:00 PM	Subcommittee AHB35(2)		
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			Managed Lanes Research Subcommittee, AHB35(2)	
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				Presiding: N. Wood
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10:15 AM	12:00 PM	Lectern Session 1436		
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			Mode-Specific Traffic Monitoring Solutions with Lessons for All Modes	
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			Estimation of Average Annual Daily Bicycle Counts using Crowdsourced Strava Data	
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				Co-Author(s): B. Dadashova, S. Das, S. Turner
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14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1436	Mode-Specific Traffic Monitoring Solutions with Lessons for All Modes	
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Validating the Estimation of Vehicle Axle-Class from Vehicle Length Data and Quantifying the Effect of Calibration to Local Data

Co-Author(s): R. Avelar, S. Ashraf

10:15 AM	12:00 PM	Poster Session 1486	Moving Forward and Advancing Society with Transportation Libraries, Information, and Data	
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Co-Author Networks in Transportation Research: Findings from TRID Data

Co-Author(s): S. Das, R. Wang

Framework of a Job Lexicon for Future Transportation Workforce

Co-Author(s): S. Das

10:15 AM	12:00 PM	Poster Session 1498	Practical Advancements in Winter Maintenance	
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Optimizing Maintenance Facility Locations in Minnesota

Co-Author(s): W. Holik, P. Anderson

10:15 AM	12:00 PM	Poster Session 1502	Research in Maritime Transportation	Presiding: C. Galvao
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10:15 AM	12:00 PM	Subcommittee AT040(1)	Risk Management Subcommittee, AT040(1)	Presiding: D. Bierling
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14-Jan**Tue**

Begin	End	Session No.	Title	Role/Member
10:15 AM	12:00 PM	Poster Session 1489	Select Posters on Basic Research and Emerging Technologies Related to Concrete	
			Case Studies on Performance Evaluation of High-Performance Concrete Based on a Combined Approach of Field and Laboratory Evaluation	Co-Author(s): A. Mukhopadhyay, P. Saraswatula, K. Ramineni
10:15 AM	12:00 PM	Lectern Session 1448	Structural Evaluation Using Non-Destructive Testing	
			Development of Frequency Domain Synthetic Aperture Focusing Technique for Orthotropic Media for Ultrasonic Array System	Co-Author(s): H. Kwon, S. Hurlebaus
10:15 AM	12:00 PM	Lectern Session 1451	Toward More Durable and Functional Open-Graded Surface Layers	Presiding: E. Arambula Mercado
10:15 AM	12:00 PM	Poster Session 1480	Transportation Management and Governance in the Age of Disruption	
			Big Data and Transportation Safety: Connecting the Dots	Co-Author(s): S. Das
12:15 PM	1:15 PM	Subcommittee ABJ50(2)	Information Systems and Technology Research Subcommittee, ABJ50(2)	Presiding: E. Kraus
1:30 PM	3:15 PM	Lectern Session 1554	Advancements in Asphalt Materials and Technologies	
			Evaluation of the Minnesota Asphalt Mixtures Based on Balanced Mix Design Approach	Co-Author(s): H. Al-Khayat, D. Newcomb, F. Zhou

14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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1:30 PM	3:15 PM	Lectern Session 1554	Advancements in Asphalt Materials and Technologies Correlating the Asphalt-Binder High-Temperature Properties (DSR) to HMA Permanent Deformation (RLPD) and Field Rutting: A Laboratory-Field Study	Co-Author(s): L. Walubita, A. Prakoso, S. Lee
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1:30 PM	3:15 PM	Poster Session 1560	Advances in Numerical Modeling and Soft Computing for Assessing Performance of Geotechnical Assets	Presiding: S. Congress
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1:30 PM	3:15 PM	Poster Session 1574	Advancing Frontiers in Trucking Industry Analysis and Operations A Review of Potential Impacts, Impediments, and Future Research Needs of Automated Trucks and Truck Platooning Technologies	Co-Author(s): D. Lee, J. Warner, C. Morgan
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1:30 PM	3:15 PM	Lectern Session 1533	Aggregate Morphology: Measurement, Modeling, and Meaning Laboratory Evaluation of Aggregate Friction and Texture Properties	Co-Author(s): E. Fernando, E. Arambula Mercado, S. Hu, B. Crockford
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1:30 PM	3:15 PM	Lectern Session 1508	An Economic Perspective of Autonomous Technologies and Ridesharing Systems Examining Cost Aspects of Shared Autonomous Vehicles (SAV) as Mobility as a Service (MaaS)	Co-Author(s): S. Devunuri, A. Jhamb, M. Burris, H. Pang
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14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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1:30 PM	3:15 PM	Poster Session 1555	Asphalt Binders: Modified Binders, Specifications, and Investigations	
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			Exploration of Alternatives of Elastic Recovery and Conventional Fatigue Analysis Tests of Modified Binders	Co-Author(s): D. Chen
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1:30 PM	3:15 PM	Lectern Session 1543	Assessing Driver Visibility Through Human Factors Investigations	
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			Human Factors Assessment of Pavement Marking Retroreflectivity in Simulated Rain and Dry Conditions	Co-Author(s): T. Barrette, A. Pike
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1:30 PM	3:15 PM	Subcommittee ANF20(2)	Bicycle Research Subcommittee, ANF20(2)	Presiding: B. Dadashova
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1:30 PM	3:15 PM	Lectern Session 1523	Design of Barriers for Containment of Trucks	
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			Design and Full Scale Testing of New Mash TI-4 Alaska 2-Tube Bridge Rail	Co-Author(s): W. Williams, S. Moran
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			Development and Testing of Structurally Independent Foundations for High-Speed Containment Concrete Barrier	Co-Author(s): J. Kovar, N. Sheikh, R. Bligh
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1:30 PM	3:15 PM	Lectern Session 1515	Developing an Innovative and Transformational Strategy for the Connected Truck Extended Ecosystem	
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			A University Research Perspective	Presenting: A. Rutter
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1:30 PM	3:15 PM	Poster Session 1559	Earthwork Issues in the Transportation Field	
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			Research on 3D Earthwork Calculation Algorithm and Development	Co-Author(s): Y. Zhang
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14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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1:30 PM	3:15 PM	Lectern Session	1513	Leveraging the Power of Machine Learning for Safer Roads Detecting Phone-related Pedestrian Distracted Behaviors via a Two-Branch Convolutional Neural Network	Co-Author(s): L. Wu
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1:30 PM	3:15 PM	Poster Session	1562	Regional Transportation Systems Management and Operations 2020 Visualizing the Impact of Integrated Corridor Management Strategies on Work Zone Closures using Dynamic Modeling Methods	Co-Author(s): J. Shelton, M. Miller
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1:30 PM	3:15 PM	Lectern Session	1528	Roller Compacted Concrete Pavement: From the State of the Art to the State of the Practice Analysis of Curing Situations on Roller-Compacted Concrete (RCC) Pavements: Case Study	Co-Author(s): A. Joshaghani, D. Zollinger
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1:30 PM	3:15 PM	Subcommittee	ADC20(2)	Technology and Behavior: Emerging Fleet and Travel Impacts on Air Quality Subcommittee, ADC20(2)	Presiding: Y. Xu
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1:30 PM	3:15 PM	Lectern Session	1519	Transportation Accessibility Planning How Close To Reality Are They: A Comparison Of Traditionally-Calculated Accessibility Measures With Real-World Origin-Destination Data	Co-Author(s): P. Lasley, S. Guo, M. Graham, Y. Peng
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14-Jan**Tue****Begin****End****Session No.****Title****Role/Member**

1:30 PM	3:15 PM	Lectern Session	1510	Transportation Safety Analysis in Developing Countries	Presiding: R. Aldrete, D. Salgado
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3:45 PM	5:30 PM	Lectern Session	1598	Advances in Stabilized Soil Testing and Modeling	
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Treated Versus Untreated Aggregate Bases for Flexible Pavements: A Nationwide Comparative Study

Co-Author(s): L. Walubita

Full-Depth Reclamation (FDR) Mix Design: The Effects of Sample Size, Conditioning Procedure, and Testing Temperature

Co-Author(s): F. Kaseer, E. Arambula Mercado, J. Epps, A. Epps-Martin

3:45 PM	5:30 PM	Subcommittee ANF20(3)		Bicycle Membership and Communications Subcommittee, ANF20(3)	Presiding: T. Goddard
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3:45 PM	5:30 PM	Poster Session	1628	Communicating with John and Jane Q. Public About Transportation Funding	Presiding: T. Parker
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3:45 PM	5:30 PM	Lectern Session	1589	Current Practices in Highway Stormwater Management	
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Forensic Evaluation of Roadside Ditches in Urban Settings Using Mobile LiDAR

Co-Author(s): C. Lee, N. Gharaibeh

3:45 PM	5:30 PM	Lectern Session	1616	Current Research in Agriculture and Food Transportation	Presiding: J. Prozzi
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14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
3:45 PM	5:30 PM	Poster Session 1627	Current Research in Public Involvement	
			Fostering Influence on Social Media	Presenting: G. Kolodzy
3:45 PM	5:30 PM	Poster Session 1641	Current Research on Alcohol, Other Drugs, and Transportation	
			Understanding Patterns in Marijuana Impaired Traffic Crashes: A Case Study on Louisiana	Co-Author(s): S. Das, L. Tran, B. Maraghehpour
			Pedestrians Under Influence: Findings from Correspondence Regression Analysis	Co-Author(s): S. Das, S. Ashraf, L. Tran
3:45 PM	5:30 PM	Poster Session 1637	Design, Characterization, and Evaluation of Asphalt Mixtures	
			Evaluation of Complex Poisson's Ratio of Field Asphalt Mixtures Using Direct Tension Test	Co-Author(s): M. Ling, Y. Deng, R. Lytton
			Comprehensive Evaluation of Rutting of Warm Mix Asphalt Utilizing Long-term Pavement Performance (LTPP) Specific Pavement Studies (SPS)	Co-Author(s): A. Rahman
			Correlating the Asphalt-Binder Low-Temperature to HMA Fracture Properties And Field Cracking Performance: A Texas Case Study	Co-Author(s): L. Walubita, S. Lee
3:45 PM	5:30 PM	Subcommittee AT015(1)	Freight Modeling Subcommittee, AT015(1)	Presiding: X. Wang

14-Jan

Tue

Begin	End	Session No.	Title	Role/Member
3:45 PM	5:30 PM	Poster Session 1636	Modeling of Asphalt Mixtures Behavior and Performance	
			Interconversion of Asphalt Concrete Material Functions with Laboratory and Finite Element Validations	Co-Author(s): A. Rahman
			Analytical Solution and Application of a Simple Shear Rutting Test	Co-Author(s): X. Luo, S. Hu, F. Zhou, B. Crockford
			A New Approach for Predicting Complex Modulus and Phase Angle of Asphalt Concrete from Binder Rheology	Co-Author(s): A. Rahman
3:45 PM	5:30 PM	Poster Session 1640	Occupant Protection Posters	
			Evaluating the Effects of Vehicle Safety Ratings on Side Impact Crash Outcomes	Co-Author(s): T. Wang
3:45 PM	5:30 PM	Poster Session 1635	Surface Requirements of Asphalt Mixtures	
			Determining the Relationship among Hamburg Wheel-Tracking Test Parameters and Correlation to Field Performance of Asphalt Pavements	Co-Author(s): A. Epps-Martin, E. Arambula Mercado
			Development of an Integrated Aging-Moisture Predictive Model for Asphalt Concrete	Co-Author(s): M. Sakhaeifar, R. Lytton
3:45 PM	5:30 PM	Poster Session 1629	Transportation Equity: Cross-Cutting Poster Session	
			Vision Zero Hashtags in Social Media: Understanding End-User Needs from Natural Language Processing	Co-Author(s): S. Das, K. Jha
			Autonomous Vehicles and Social Exclusion: Analyzing Residents' Potential In-Vehicle Activities Through the Lenses of Equity	Co-Author(s): H. Zhong, W. Li, M. Burris

14-Jan**Tue**

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM	Poster Session 1633	Using Rejuvenators and Recycled/Reclaimed Materials in Asphalt Mixtures	
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			Bio-Rejuvenators: Field Performance and a Preliminary Performance Indicator	Co-Author(s): F. Zhou, J. Yuan, P. Karki, S. Hu
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5:30 PM	7:00 PM		Freight and Marine Caucus	Presiding: J. Kruse
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6:00 PM	7:30 PM	Poster Session 1652	Emerging Research in Social and Economic Factors of Transportation	
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			Bridging the Transportation Divide	Presenting: J. Kuzio
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6:00 PM	7:30 PM	Subcommittee AV020(1)	NASPS Organizing Team Subcommittee, AV020(1)	Presiding: J. Borowiec
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6:00 PM	9:30 PM	Committee	Freeway Operations Committee (Part 2 of 2)	Presiding: B. Kuhn
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7:30 PM	9:30 PM		A Forum on Using Data to Understand the Performance of Roadside Safety Devices	Presiding: R. Bligh
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15-Jan

Wed

Begin	End	Session No.	Title	Role/Member
8:00 AM	9:45 AM	Poster Session 1687	Advances in Monitoring Walking and Bicycling Activity	
			Estimating Pedestrian Volumes for Signalized and Stop-Controlled Intersections	Co-Author(s): M. Le, S. Geedipally, K. Fitzpatrick, R. Avelar
8:00 AM	9:45 AM	Poster Session 1689	Best of the Transportation Planning Applications Conference and More!	
			Identifying Truck Bias in LBS Data	Presenting: B. Chigoy
8:00 AM	9:45 AM	Lectern Session 1678	Bus System Operations, Technology, and Applications, Part 2	
			Cluster-based Methodology for Scheduling a University Shuttle System	Co-Author(s): A. Mahmoudzadeh, X. Wang
8:00 AM	9:45 AM	Lectern Session 1682	Current Research in International Trade and Transportation	
			Advanced Methods for Commercial Vehicle Wait Time Prediction at a Border Crossing	Co-Author(s): S. Sharma, D. Kang, J. de Oca
8:00 AM	9:45 AM	Lectern Session 1675	Driver Behavior in Car Following and Lane Changing	
			Vehicle Trajectory Data Collection Using Aerial Videography	Co-Author(s): M. Hosseini, S. Devunuri

15-Jan

Wed

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Lectern Session 1672	Driving and the Technology of Weather	
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Single and Multiple Vehicle Crashes due to Hydroplaning: A Case Study of Interpretable Machine Learning

Co-Author(s): S. Das

8:00 AM	9:45 AM	Poster Session 1690	Health, Transportation, and Emerging Research	Presiding: I. Sener
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Understanding Potential Exposure of Bicyclists on Roadways to Traffic-Related Air Pollution: Findings from El Paso, Texas, Using Strava Metro Data

Co-Author(s): I. Sener

Autonomous Vehicles and Public Health: A Conceptual Model and Policy Recommendation

Co-Author(s): S. Sohrabi, H. Khreis, D. Lord

8:00 AM	9:45 AM	Poster Session 1692	Pedestrian Design and Behavior	
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Signalized Midblock Crosswalks Experience in Dar Es Salaam, Tanzania: An Evaluation of Awareness and Utilization

Co-Author(s): B. Kutela

Distracted Behavior of Pedestrian while Crossing Streets: A Case Study in China

Co-Author(s): Y. Zhang

8:00 AM	9:45 AM	Subcommittee ABE90(1)	Traffic Safety and Traffic Management Subcommittee, ABE90(1)	Presiding: R. Aldrete
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15-Jan

Wed

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Poster Session 1691		
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			Understanding Potential Exposure of Bicyclists on Roadways to Traffic-Related Air Pollution: Findings from El Paso, Texas, Using Strava Metro Data	
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			The Variability of Urban Safety Performance Functions for Different Road Elements: An Italian Case Study	Co-Author(s): D. Lord
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			Safety Performance of Autonomous Vehicles on an Urban Arterial in Proximity of a Driveway	Co-Author(s): S. Mousavi, D. Lord, M. Shirinzad
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			Two-Way Stop-Controlled Intersection Analysis with Zero-inflated Models	Co-Author(s): S. Das
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			Safety Performance Functions for Rural Two-Way Stop-Controlled Intersections	Co-Author(s): S. Das
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			Examining the Standard Errors of Crash Modification Factors Developed with Empirical Bayes Before-After Studies	Co-Author(s): L. Wu
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8:00 AM	12:00 PM	Committee	Utilities Committee	Presiding: C. Quiroga
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10:15 AM	12:00 PM	Lectern Session	1715	
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			Concretes with Fly Ash and Rubber	
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			Fracture Properties and Restrained Shrinkage Cracking Resistance of Cement Mortar Reinforced by Recycled Steel Fiber from Scrap Tires	Co-Author(s): X. Shi, Z. Grasley
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15-Jan

Wed

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1723	Examination of Transit Bus Crash Contributors and Relational Aspects of Transit Operations	
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The Influence of Lane Width on Bus Crashes

Co-Author(s): B. Dai, J. Hudson, B. Ettelman, E. Park

10:15 AM	12:00 PM	Lectern Session 1721	Highway Safety Performance Research	
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Safety Performance of One-Way Arterials

Co-Author(s): S. Geedipally, D. Lord, M. Pratt, K. Fitzpatrick, E. Park

10:15 AM	12:00 PM	Poster Session 1735	Joint and Crack Sealants Characterization and Modeling for Performance	
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Effects of Shape and Bond Strength on Adhesive Failure of Joint Sealants

Co-Author(s): J. Kim, D. Zollinger

10:15 AM	12:00 PM	Poster Session 1730	Jointed Plain Concrete, Continuously Reinforced Concrete, Airfield, and Novel Pavement Design and Modeling	
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Development of a Load-Related Faulting Prediction Model in Jointed Concrete Pavement Using LTPP Data

Co-Author(s): Y. Chen, S. Sahan, R. Lytton

10:15 AM	12:00 PM	Lectern Session 1702	Moving Transportation Safety Research into Practice	
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Does News Coverage of Traffic Crashes Affect Perceived Blame and Preferred Solutions? Evidence from an Experiment

Co-Author(s): T. Goddard

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Wed

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Poster Session 1729	Pavement Management Performance and Performance Modeling	
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Development of Machine Learning Models for Predicting Rutting Classification in Asphalt Pavement using Network-level Data

Co-Author(s): S. Banihashemrad, C. Gurganus, M. Sakhaeifar

10:15 AM	12:00 PM	Subcommittee AT040(2)	Transport of Energy Products Subcommittee, AT040(2)	Presiding: W. Holik
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10:30 AM	12:00 PM	Lectern Session 1737	TRB: Our History and Our Future	Presiding: K. Turnbull
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2:30 PM	4:00 PM	Lectern Session 1747	Design and Analysis of Roadside Barrier Systems	
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Evaluation of W-beam Guardrail and Terminal Posts Installed in Metal Sleeves

Co-Author(s): N. Sheikh, R. Bligh

2:30 PM	4:00 PM	Poster Session 1483	Novel Use of Economic Analysis in Decision Making	
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Alternatives in Economic Analysis and Prioritization of Highway Safety Improvement Projects in Texas

Co-Author(s): I. Tsapakis, S. Sharma, W. Holik

2:30 PM	4:00 PM	Poster Session 1758	Road Scholars: New Research in Travel Time, Speed, and Reliability Data	
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Examining Short-term Freeway Travel Time Prediction Models with Different Periodic Functions

Co-Author(s): L. Wu

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Wed

Begin	End	Session No.	Title	Role/Member
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2:30 PM	4:00 PM	Poster Session 1761	Traffic Flow Theory and Characteristics, Part 5	
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			Calibration of VISSIM Desired Acceleration Functions: Implications for Microsimulation	Co-Author(s): D. Florence, X. Guo, K. Balke
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			A Novel Approach for Calibrating Freeway Highway Multi-Regimes Fundamental Diagram	Co-Author(s): B. Kutela
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2:30 PM	4:00 PM	Lectern Session 1748	Transforming Roadside Management and Technology Practices for the Benefit of Safety, Ecology, and Economy	Presiding: B. Storey
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2:30 PM	6:00 PM	Committee	Highway Safety Performance Committee	Presiding: K. Dixon
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2:30 PM	6:00 PM	Committee	TRB Executive Committee	<i>Invitation Only</i> Presiding: K. Turnbull
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16-Jan

Thur

Begin	End	Session No.	Title	Role/Member
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8:00 AM	12:00 PM	Committee	Highway Safety Performance Committee	Presiding: K. Dixon
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8:00 AM	12:00 PM	Workshop	1782	Making Sense of Emerging Data Sources for Nonmotorized Transportation: Tools, Tips, and Knowledge Gaps for Effective Analysis	Presiding: B. Dadashova
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				Panel 2: Use of Emerging Data in Transportation Analysis: Data Needs and Analysis Methods	Panel Member: S. Turner
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8:00 AM	12:00 PM	Workshop	1772	Near-Road Air Quality: Current Conditions and Analysis Insights	
				Near-Road Air Quality: Texas Case Study & Recent Analysis Lessons	Co-Author(s): R. Farzaneh

8:00 AM	12:00 PM	Workshop	1781	Pedestrian Safety, Accessibility, and Harassment: Experiences Across Age, Race, Class, Ability, and Gender	
				Gender and Pedestrian Space, Behavior, and Experience	Presenting: T. Goddard

8:00 AM	12:00 PM	Workshop	1771	The Evolution of Transportation Innovation and Technology Transfer Processes Across the 20th and 21st Centuries: A Transportation History Perspective	
				Tracing Technology Transfer Innovations Across Two Strategic Highways Research Programs	Presenting: M. Miller

16-Jan**Thur****Begin****End****Session No.****Title****Role/Member**

8:00 AM

12:00 PM

Committee

TRB Executive Committee

Invitation Only

Presiding: K. Turnbull