

Sunday, January 13, 2019

Annual TTI Reception 6:30 p.m. - 8:00 p.m. Marriott Marquis, Marquis Ballroom Salon 5 (Level M2)

13-Jan

Sun

Begin	End	Session No.	Title	Role/Member
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9:00 AM	12:00 PM	Workshop 1045	Advancing Identified Urban Research Needs with a Focus on Last-Mile Delivery	Presiding: W. Eisele
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9:00 AM	12:00 PM	Workshop 1008	Asset Data Self-Assessment	Presiding: D. Schrank
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9:00 AM	12:00 PM	Workshop 1011	Building Information Modeling for Infrastructure: State-of-the-Practice Initiatives	
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			BIM for Utilities-SUE	Presenting: C. Quiroga
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			BIM Technologies - Asset Management	Presenting: D. Jeong
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9:00 AM	12:00 PM	Workshop 1020	In Case You Missed It: Research and Best Practices for System Interchange Designs	
			Summary of NCHRP Report 835 - Guidelines for Implementing Managed Lanes	Presenting: M. Brewer

9:00 AM	12:00 PM	Workshop 1015	New Paradigm for Managing Emissions from Transportation Sources	
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13-Jan**Sun****Begin****End****Session No.****Title****Role/Member****9:00 AM****12:00 PM****Workshop 1015****New Paradigm for Managing Emissions
from Transportation Sources**Research connecting transportation emissions with public
health issues

Presenting: J. Zietsman

9:00 AM**12:00 PM****Workshop 1035****Real and Virtual Data Collection Platforms
for Connected and Automated Vehicles
Modeling, Calibration, and Validation**Data Availability and Needs for Modeling Connected
Automated Vehicles

Presenting: A. Talebpour

9:00 AM**12:00 PM****Workshop 1033****What Do Agencies Need to Assess, Plan,
and Develop the Next Generation of Traffic
Management Systems?**

Freeway Operations Chair

Presenting: B. Kuhn

1:30 PM**4:30 PM****Workshop 1071****E-Construction: Analyzing and Utilizing
Nongraphical Construction Data for Smarter
Project Delivery****Presiding: D. Jeong****1:30 PM****4:30 PM****Workshop 1052****Innovative Mobility Services and
Considerations for Riders with Disabilities**Innovative Demand Response Service: People with Disabilities
informing the Process

Presenting: T. Hansen

1:30 PM**4:30 PM****Workshop 1086****Mobility on Demand: A Smart, Sustainable,
and Equitable Future, Part 2**

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Begin	End	Session No.	Title	Role/Member
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1:30 PM	4:30 PM	Workshop 1086	Mobility on Demand: A Smart, Sustainable, and Equitable Future, Part 2	
			TRB Forum on Preparing for Automated Vehicles and Shared Mobility	Presenting: G. Winfree

1:30 PM	4:30 PM	ADA30(1)	Planning for the Conference on Small and Medium-Sized Communities Subcommittee	Presiding: W. Frawley
			Planning and Forecaster	

1:30 PM	4:30 PM	Workshop 1051	Preparing for Mobility Futures: The Impact of Connected and Automated Vehicle Technology on Transportation Demand Management	
			The Impact of CAV technology on TDM: Public Point of View	Co-Author(s): J. Zmud, I. Sener

1:30 PM	4:30 PM	Workshop 1048	Socioeconomic Impacts of Connected and Automated Vehicles: Workshop on the Sixth European Union–U.S. Transportation Research Symposium	
			White Paper to Prime Our Discussion - Presentation by Co-authors	Presenting: J. Zmud

1:30 PM	4:30 PM	Workshop 1055	Traffic Volume Estimation on All Public Roads for Safety Analysis	Presiding: I. Tsapakis
			AADT Estimates from Probe Data	Presenting: I. Tsapakis
			Impact of AADT Estimation Errors on Data-Driven Safety Analysis	Presenting: S. Das

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Begin	End	Session No.	Title	Role/Member
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1:30 PM	4:30 PM	Workshop 1055	Traffic Volume Estimation on All Public Roads for Safety Analysis	Presiding: I. Tsapakis
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			Overview of FHWA Project "Data Collection and AADT Estimation for Non-Federal Aid-System (NFAS) Roads"	Presenting: I. Tsapakis
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			Roadway Stratification Variables and Methods	Presenting: I. Tsapakis
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			VDOT – Innovative Procedures in Traffic Volume Estimation	Presenting: W. Holik
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5:00 PM	6:30 PM	AHB20(3)	Freeway Operations Research Subcommittee	Presiding: C. Poe
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5:00 PM	8:00 PM		Joint Meeting of the Freight Systems and Marine Group Executive Boards	<i>Invitation Only</i> Presiding: J. Kruse
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14-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Lectern Session 1124	Access Management Science and Standards	
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			Examining Safety on Two-Lane and Multilane Highways in Consideration of Access Spacing	Co-Author(s): T. Barrette
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8:00 AM	9:45 AM	Lectern Session 1138	Advances in Maritime Transportation	
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			Modelling Incentive Strategy of a Multi-Layer Cruise Supply Chain	Presenting: G. Wang
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8:00 AM	9:45 AM		Aviation System Planning Committee	Presiding: J. Borowiec
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8:00 AM	9:45 AM	Poster Session 1167	Big Data Applications in Maritime	
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			Application of Automatic Identification System (AIS) Data for Port Performance Measurement Framework	Co-Author(s): J. Kruse, D. Schrank, W. Eisele, D. Hun Kang
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			Maritime Cyber Security: A Case Study of Automatic Identification System (AIS) Data in Commercial Maritime Shipping in the Gulf of Mexic	Presenting: S. Hamrock
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8:00 AM	9:45 AM	Poster Session 1148	Collection, Analysis, and Fusion Advances for Addressing Data Gaps in Freight Planning and Performance Measurement	
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			Estimating the Benefits of the Internet of Things for Supply Chain Performance and Management – A Conceptual Framework	Co-Author(s): M. Monsreal, J. Villa, M. Graham, M. Metsker-Galarza
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			Uncovering Local On-Demand Delivery Services Data	Co-Author(s): M. Wilson, D. Seehah
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14-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Poster Session 1148	Collection, Analysis, and Fusion Advances for Addressing Data Gaps in Freight Planning and Performance Measurement	
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8:00 AM	9:45 AM	Poster Session 1155	Degradation of Concrete Due to Alkali–Silica Reaction and Deicers	
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A Performance-Based Approach for Formulation of ASR Resistant Concrete Mixes

Co-Author(s): A. Mukhopadhyay, V. Liu, J. Hsu

8:00 AM	9:45 AM	Lectern Session 1105	Determinants of Near-Road Air Quality and New Trends in Particulate Matter Hot Spot Analysis	
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A Risk-Based Approach to Identify Projects that are Not of Air Quality Concern for PM10 Hot-spot Analysis

Co-Author(s): R. Farzaneh, C. Gu, S. Vallamsunder, M. Venugopal

The Effect of Re-Suspended Dust Emissions on Near-Road Traffic-Related Air Pollution

Co-Author(s): M. Hashem Askariyeh, M. Venugopal, H. Khreis, S. Vallamsundar, R. Farzaneh, A. Birt, J. Zietsman

8:00 AM	9:45 AM	Poster Session 1151	Emerging Research in Health and Transportation	
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Presiding: I. Sener

Transportation's Impact on Community Quality of Life and Life Satisfaction in the United States

Co-Author(s): J. Brooks, L. Quadrifoglio, J. Jain, C. Simek, I. Sener

8:00 AM	9:45 AM	Lectern Session 1123	Managed Lanes at 50: Reflecting on a Legacy, Envisioning the Future	
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14-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
8:00 AM	9:45 AM	Lectern Session 1123	Managed Lanes at 50: Reflecting on a Legacy, Envisioning the Future	
			Panel Discussion	Panel Member: D. Christiansen
8:00 AM	9:45 AM	Lectern Session 1111	Pavements and the Urban Climate: Coatings to Improve Air Quality and Reduce Temperature	
			Laboratory Investigation of the Effect of TIO2 Topical Treatments on Concrete and Asphalt Specimens	Co-Author(s): A. Joshaghani, D. Zollinger
8:00 AM	9:45 AM	Lectern Session 1118	Recent Advances in Compaction Mechanics and Comparison Studies	
			Comparison of Superpave Gyratory Compactor and Impact Hammer for Compaction of Unbound Granular Materials	Co-Author(s): P. Arabali, S. Ick Lee, S. Sebesta, R. Lytton, M. Sakhaeifar
8:00 AM	9:45 AM	Lectern Session 1126	Safety Management Policies and Decision-Support Frameworks—Hybrid Session	
			Editorial Patterns in Bicyclist and Pedestrian Crash Reporting	Co-Author(s): T. Goddard
8:00 AM	9:45 AM	Poster Session 1159	Snow and Ice Control Technologies	
			Maintenance Facility Location Optimization Review	Presenting: W. Holik
8:00 AM	9:45 AM	Poster Session 1162	Surrogates, Conflicts, and Other Indirect Measures to Quantify Safety and Risk	
			Miss-and-Run: Factors Contributing to Two-Vehicle Phantom Vehicle Crashes in Florida	Co-Author(s): Y. Peng
8:00 AM	12:00 PM		Utilities Committee	Presiding: C. Quiroga

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Begin	End	Session No.	Title	Role/Member
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8:00 AM	12:00 PM		Utilities Committee	Presiding: C. Quiroga
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10:15 AM	12:00 PM	Poster Session 1216	Advanced Research in Traffic Monitoring	
			ESTIMATING TRUCK TRAFFIC VOLUMES GENERATED FROM WELL DEVELOPMENTS	Presenting: I. Tsapakis

10:15 AM	12:00 PM	Poster Session 1229	Advances in Soil Stabilization	
			Treated Versus Untreated Aggregate Bases for Flexible Pavements: A Comparative Case Study in Alabama, Arizona, and Texas	Co-Author(s): L. Walubita

10:15 AM	12:00 PM	Poster Session 1214	Advances in Urban Transportation Data and Information Systems	
			Mitigating Bias in Big Data for Transportation	Co-Author(s): G. Griffin, C. Simek

10:15 AM	12:00 PM	Lectern Session 1180	Advancing Public Health in Transportation Is Critical for a Smart, Sustainable, and Equitable Future (Part 2)	
			TRB Leadership Committees' Perspective	Presenting: K. Turnbull

10:15 AM	12:00 PM	Poster Session 1227	Aggregates and Granular Materials	Presiding: E. Arambula Mercado
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10:15 AM	12:00 PM	Lectern Session 1187	Approaches to Investigating and Assessing Freeze Thaw Damage in Concrete	
			An Approach to Characterize the Wearability of Concrete Pavement Surface Treatments	Co-Author(s): C. Sleiman, X. Shi, D. Zollinger

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Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1182	Assessing Pavement Distress and Establishing Thresholds	
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Reporting the Pavement Condition for Local Roads to HPMS Using PCI, IRI, and PSR Criteria

Co-Author(s): R. Smith

10:15 AM	12:00 PM	Lectern Session 1193	Best Papers from the 2018 Access Management Conference	
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Influence of Frontage Roads Access Points Relative to X-ramps vs. Traditional Ramps and their Entry and Exit Gores with Focus on Safety and Performance

Presenting: K. Dixon

10:15 AM	12:00 PM	Poster Session 1233	Bridge Management: Models and Performance Measures	
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Bridge Reliability Evaluation Method for Asset Management

Co-Author(s): M. Yarnold

10:15 AM	12:00 PM	Poster Session 1222	Frontiers in Construction Management	
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Development of Multi-Level Scoping Process Framework for Transportation Infrastructure Projects Using IDEF Modeling Technique

Co-Author(s): S. Anderson

10:15 AM	12:00 PM	Poster Session 1220	Geospatial Data Acquisition Posters	
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An Innovative Hybrid Model for Intelligent Analysis of Highway Sight Distance Using LiDAR Data

Co-Author(s): Y. Zhang

10:15 AM	12:00 PM	Poster Session 1219	Hydrology, Hydraulics, and Scour	
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Erodibility and Soil Properties: Results of NCHRP Project 24-43

Co-Author(s): J. Briaud

10:15 AM	12:00 PM	Lectern Session 1202	Improving the Management and Governance of Paratransit and Taxi Markets	
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Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1202	Improving the Management and Governance of Paratransit and Taxi Markets	
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			The Impact of Fare Policy Changes on Paratransit Travel Options – METROLift Case Study	Co-Author(s): S. Tan, E. Park, J. Hwang
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10:15 AM	12:00 PM	Poster Session 1221	Innovations in Pavement Design and Analysis: Enhancing Durability and Sustainability	
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			A Comparative Evaluation of Pavement Mechanistic-Empirical Design Approaches for Highways in China	Co-Author(s): B. Birgisson
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			Cost-Effective Design Alternatives for Texas Perpetual Pavements	Co-Author(s): S. Ick Lee, L. Walubita
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			Framework for Benchmarking Pavement Practices in Data-Scarce Regions	Co-Author(s): D. Little
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			Grid Reinforcement in HMA Overlays A Field Case Study of Highway US 59 in Atlanta District of Texas	Co-Author(s): L. Walubita, S. Ick Lee, T. Nyamuhokya
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10:15 AM	12:00 PM	Poster Session 1238	Liner Shipping Routes and Schedules Under Uncertain Conditions	
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				Presiding: J. Villa
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10:15 AM	12:00 PM	Poster Session 1215	New Research on Travel Time, Speed, and Reliability Data	
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			Processing SHRP2 Time Series Data to Facilitate Analysis of Relationships between Speed and Roadway Characteristics	Co-Author(s): J. Stibbe, M. Brewer
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12:15 PM	1:15 PM	ABJ35(4)	Highway Traffic Monitoring Research Subcommittee	
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				Presiding: I. Tsapakis
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Begin	End	Session No.	Title	Role/Member
12:15 PM	1:15 PM	ABJ35(4)	Highway Traffic Monitoring Research Subcommittee	Presiding: I. Tsapakis
1:30 PM	3:15 PM	Lectern Session 1246	Applicability of Natural Language Processing in Transportation Science	
			Measuring the Effectiveness of Vehicle Inspection Regulations in Different States of the U.S.	Co-Author(s): S. Das, S. Geedipally, K. Dixon, C. Ma
1:30 PM	3:15 PM	Lectern Session 1270	Bridge Management Decision Making	
			Resource Allocation Methodology for Historic Bridge Preservation	Co-Author(s): I. Damnjanovic, M. B. Hueste, S. Hurlebaus
1:30 PM	3:15 PM	Poster Session 1310	Driver Characteristics, States, and Behaviors: Modeling and Classification	
			A Graphical Modeling Method for Individual Driving Behavior and the Application on the Driving Safety Analysis	Co-Author(s): Y. Zhang
			Driving to Safety: Who is at Fault in Cabs Rear-End Collisions?	Co-Author(s): Y. Rahmati, A. Abianeh, M. Tabesh, A. Talebpour, F. Sharifi
1:30 PM	3:15 PM	Lectern Session 1271	Economic and Environmental Management of Equipment and Vehicles	
			Case Study of Indoor Air Quality for Heavy Duty Diesel Equipment	Co-Author(s): P. Lewis
1:30 PM	3:15 PM	Lectern Session 1297	Information Systems and Technology	

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Begin	End	Session No.	Title	Role/Member
1:30 PM	3:15 PM	Lectern Session 1297	Information Systems and Technology	
			Automated Data Collection and Safety Analysis at Intersections Based on a Novel Video Processing System	Co-Author(s): D. Sun
1:30 PM	3:15 PM	Lectern Session 1295	Innovative Impacts in Transportation: Technology Transfer as a Way Forward	
			An Optimization Model of Technology - and Government Regulation- Investments for Implementation – Industry Case	Presenting: M. Monsreal
1:30 PM	3:15 PM	Poster Session 1301	NCHRP IDEA Poster Session	
			Project 195: IDEAL Cracking Test: From Research to Practical Applications	Presenting: F. Zhou
1:30 PM	3:15 PM	Lectern Session 1267	Safety and Reliability of Work Zone Safety Measures	
			Queue Warning System Performance and Reliability	Co-Author(s): G. Pesti, H. Charra, G. Ullman, R. Brydia
			Queue Warning System Performance and Reliability	Co-Author(s): G. Pesti, H. Charra, G. Ullman, R. Brydia
1:30 PM	3:15 PM	Poster Session 1312	Simulation, Modeling, and Measurement of Driver Behavior	
			Reaction Time and Stopping Sight Distance Model in Plateau Area	Co-Author(s): Y. Zhang
1:30 PM	3:15 PM		Task Force on Data Privacy, Security, and Protection Policy	Presiding: J. Zmud

14-Jan**Mon****Begin****End****Session No.****Title****Role/Member**

1:30 PM	3:15 PM		Urban Freight Transportation Committee	Presiding: W. Eisele
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1:30 PM	3:15 PM	Lectern Session 1248	Visualization in Transportation: Lightning Talks	
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A Novel Application of Interactive Data Visualization in Research- Understanding the Air Quality Impacts of Ramp Metering

Presenting: R. Farzaneh

1:30 PM	5:30 PM		Rural Public and Intercity Bus Transportation Committee	Presiding: J. Brooks
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3:45 PM	5:30 PM	Lectern Session 1330	Advanced Nonlinear Dynamic Analysis Techniques	
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Seismic Performance Assessment of Bridges using Advanced Nonlinear Dynamic Analysis Techniques

Presenting: P. Sideris

3:45 PM	5:30 PM	Lectern Session 1329	Advances in Structural Engineering: Bridges and Ancillary Structures	
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Analysis & Full Scale Testing of New Mash TL-4 Bridge Rail for William P. Lane, Jr. Bridge, Annapolis, Maryland

Co-Author(s): W. Williams

3:45 PM	5:30 PM	Lectern Session 1328	Asphalt Concrete Cracking: Testing, Modeling, and Field Studies	
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Calibrated Mechanics-Based Models for Top-Down Cracking of Asphalt Pavements

Co-Author(s): M. Ling, Y. Chen, S. Hu, R. Lytton

14-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM	Lectern Session 1323	Automated Vehicles, New Transportation Technologies, and Changing Household Decisions	Presiding: J. Zmud
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			Chipping Away at Uncertainty: Behavioral Responses to Self-Driving Vehicles and the Role of Ride-Hailing	Co-Author(s): I. Sener, J. Zmud
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3:45 PM	5:30 PM	Lectern Session 1353	Autonomous Train Technology: The Challenges of Implementation, Part 2	
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			Implementing Rail Operations with Automated and Connected Vehicles at Grade Crossings	Presenting: C. Morgan
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3:45 PM	5:30 PM	Poster Session 1366	Gaining Insight into Highway Safety and Risk Through Improved Methods and Models	
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			Before-After Analysis of Safety Effects of Variable Speed Limit System Using Full Bayesian Models	Co-Author(s): X. Guo
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			Effect of Vehicular Defects on Crash Severity: A Bayesian Data Mining Approach	Co-Author(s): S. Das, A. Dutta, S. Geedipally, C. Ma, Z. Elgart
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3:45 PM	5:30 PM	ANB25(5)	Highway Safety Performance International Research Subcommittee	Presiding: K. Dixon
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3:45 PM	5:30 PM	Lectern Session 1340	Innovations in Work Zone Mobility	
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			Minimizing Work Zone Mobility Impacts Using Project Coordination	Co-Author(s): L. Theiss, G. Ullman
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14-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM		International Trade and Transportation Committee	Presiding: J. Villa
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3:45 PM	5:30 PM	Lectern Session 1319	Mobile Devices Advancing Culvert and Construction Project Inspections	Presiding: M. Miller
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Presenting: T. Scullion

3:45 PM	5:30 PM	Lectern Session 1339	Speed Limits 2019: Current Perceptions, Technologies, and the Future	
			Are Attitudes Changing with Respect to the Setting of Posted Speed Limits?	Co-Author(s): K. Fitzpatrick, S. Das

3:45 PM	5:30 PM	Lectern Session 1322	What Crowdsourcing and Social Media Tell Us About Public Engagement: Recent Research	
			The Geography and Equity of Crowdsourced Public Participation for Active Transportation Planning	Co-Author(s): G. Griffin

6:00 PM	7:30 PM	Poster Session 1299	Artificial Intelligence and Machine Learning Methods for Transportation Applications (Part 2)	
			Horizontal Curves Automatic Identification and Parameters Collection Using GPS Data	Co-Author(s): T. Wang

6:00 PM	7:30 PM	Poster Session 1382	Assessing Safety and Traffic Impacts of Connected and Automated Vehicle Systems	
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14-Jan**Mon**

Begin	End	Session No.	Title	Role/Member
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6:00 PM	7:30 PM	Poster Session 1382	Assessing Safety and Traffic Impacts of Connected and Automated Vehicle Systems	
			Optimization of Lateral Wandering of Automated Vehicles to Reduce Hydroplaning Potential and to Improve Pavement Life	Co-Author(s): F. Zhou, S. Hu, S. Chrysler, Y. Kim, I. Damnjanovic, A. Talebpour, A. Espejo

6:00 PM	7:30 PM	AT015(1)	Freight Modeling Subcommittee	Presiding: X. Wang
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6:00 PM	7:30 PM	Lectern Session 1377	Research in Concrete Pavement Construction	
			Investigating the Effects of Curing Quality on Key Concrete Pavement Surface Properties	Co-Author(s): A. Joshaghani, R. Bhardwaj, D. Zollinger, A. Mukhopadhyay
			Assessment of Concrete Pavement Set Gradient Based on Analysis of Slab Behavior and Field Test Data	Co-Author(s): A. Joshaghani, D. Zollinger

6:00 PM	7:30 PM		Thomas B. Deen Distinguished Lecture and Presentation of Awards	
			Thomas B. Deen Distinguished Lectureship	Awardee: J. Epps

6:00 PM	7:30 PM	AT000(2)	Transport of Energy Products Subcommittee	Presiding: W. Holik
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6:00 PM	7:30 PM	AHB55(1)	Vehicle Intrusion Mitigation in Work Zones, AHB55(1), Joint Subcommittee of AHB55, AFB20, AFH10	Presiding: M. Finley
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14-Jan**Mon****Begin****End****Session No.****Title****Role/Member****7:30 PM****9:30 PM****AFB20(1)****Roadside Safety Design Computational
Mechanics Subcommittee****Presiding: N. Sheikh**

15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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7:00 AM	8:00 AM	ABJ70(1)	Artificial Intelligence and Advanced Computing Research Subcommittee	Presiding: Y. Zhang
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8:00 AM	9:45 AM	ANF20(3)	Bicycle Membership and Communications Subcommittee	Presiding: T. Goddard
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8:00 AM	9:45 AM	Poster Session 1431	Current Issues in Transportation and Air Quality
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A Worst-case Approach to Conduct Particulate Matter Hot-spot Analysis

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

An Alternative Method for Vehicle Exhaust Emission Modeling and Its Impact on Local Road Transport Emission Inventories: The Case Study of Bradford, UK

Co-Author(s): H. Khreis

Characterization of Drayage Activities in the Paso Del Norte Airshed

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

Contribution of Traffic Emissions to Near-Road PM_{2.5} Air Concentrations as Implied by Urban-Scale Background Monitoring

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

Determination of Background PM_{2.5} Concentrations for a Potential Transportation Project Site

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

8:00 AM	9:45 AM	Poster Session 1427	Emerging Asset Management Tools, Techniques, and Performance Measures
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Poster Session 1427	Emerging Asset Management Tools, Techniques, and Performance Measures	
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			Sensitivity of Transportation Performance Measures to Changes in Reference Speed	Co-Author(s): K. Jha, D. Schrank, W. Eisele, T. Lomax, M. Burris
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			Assessing the Effects of External Factors on Urban Congestion Performance Measures	Co-Author(s): B. Dadashova, S. Turner, P. Koenman, P. Lasley
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8:00 AM	9:45 AM	Lectern Session 1409	Exploring Concepts for Freeways and Interchanges	
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			Operational Evaluation of U-Turns at At-Grade Signalized Diamond Interchanges	Co-Author(s): H. Zhou, J. Tydlacka
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8:00 AM	9:45 AM	Lectern Session 1421	Freight Day, Part 1: Game-Changing Technologies for Multimodal Freight Corridor Management: North American, European, and Asian Initiatives	
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			Freight Corridors and new transport technologies: The Freight Shuttle System as a Private Sector Freight Transportation Solution	Presenting: S. Roop
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8:00 AM	9:45 AM	Lectern Session 1413	Highway Safety Performance Data-Driven Analyses: When It Counts	
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			A Comparative Analysis of Empirical Bayes and Bayesian Hierarchical Models in Hotspot Identification	Co-Author(s): X. Guo, L. Wu
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8:00 AM	9:45 AM	Lectern Session 1411	Negotiating "Master" Utility Agreements for Alternative Delivery Projects	
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Lectern Session 1411	Negotiating "Master" Utility Agreements for Alternative Delivery Projects	
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Panel Member: C. Quiroga

8:00 AM	9:45 AM	Lectern Session 1400	Quality Assurance in Construction and Smart Technology	
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Development and implementation of New Technologies for Pavement Acceptance: Pave-IR and Beyond

Presenting: T. Scullion

8:00 AM	9:45 AM	Lectern Session 1397	Roadside Safety Barrier Design and Performance	
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Development and Evaluation of Round Wood Post Guardrail System

Co-Author(s): J. Kovar, R. Bligh

8:00 AM	9:45 AM	Lectern Session 1396	Safety, Horizontal Curves, and Design Speed: A Close Relationship	
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Investigation of Design Speed Characteristics on Freeway Ramps Using SHRP2 Naturalistic Driving Data

Co-Author(s): M. Brewer, J. Stibbe

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

8:00 AM	9:45 AM	Poster Session 1438	Transportation Safety Management from Start to Finish	
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MIRE Safety Data Integration Using Roadway Data Extraction

Co-Author(s): E. Kraus

8:00 AM	9:45 AM	Lectern Session 1422	Trucking Industry Research on Automation	
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Lectern Session 1422	Trucking Industry Research on Automation	
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			Developing Geometric/Traffic Operations Guidance for Level 2 Automated Commercial Truck Platooning	
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				Co-Author(s): M. Lukuc, B. Kuhn, K. Balke, A. Bibeka, D. Florence, S. Sunkari, N. Wood
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8:00 AM	9:45 AM	Lectern Session 1415	Visibility of Signs and Roadway Markings	
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			Closed-Course Human Factors Evaluation of Marking and Marker Visibility	
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				Co-Author(s): T. Barrette, A. Pike
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			How Might Wet Retroreflective Pavement Markings Enable More Robust Machine Vision?	
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				Co-Author(s): A. Pike
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8:00 AM	12:00 PM		Freeway Operations Committee (Part 1 of 2)	
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				Presiding: B. Kuhn
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8:00 AM	12:00 PM		Geographic Information Science and Applications Committee	
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			Texas Transit Performance Dashboard	
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				Presenting: S. Tan
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8:00 AM	12:00 PM	AHB35(2)	Managed Lanes Research Subcommittee, AHB35(2)	
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				Presiding: S. Wood
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8:00 AM	9:45 PM	Lectern Session 1395	Incorporating Sustainability into Planning for Emerging Technologies	
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			Planning for Social Equity and Emerging Technologies	
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				Presenting: J. Kuzio
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10:15 AM	12:00 PM	Lectern Session 1470	A Medley of Operational Effects Topics	
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1470	A Medley of Operational Effects Topics	
			Familiar Versus Unfamiliar Drivers On Curves: A Naturalistic Data Study	Co-Author(s): M. Pratt, S. Geedipally, B. Dadashova, L. Wu, M. Shirazi

10:15 AM	12:00 PM	Lectern Session 1464	Addressing the Use of High Recycled Asphalt Pavement Contents in Asphalt Mixtures	
			Strategies for Incorporating High Reclaimed Asphalt Pavement (RAP) Contents in Asphalt Mixtures	Co-Author(s): F. Kaseer, A. Bajaj, A. Epps Martin, E. Arambula Mercado

10:15 AM	12:00 PM	Lectern Session 1469	Connected Automated Vehicles: Modeling and Control	
			Influence of Autonomous Vehicles on Car-Following Behavior of Human Drivers	Co-Author(s): Y. Rahmati, M. Khajeh-Hosseini, A. Talebpour, B. Swain, C. Nelson

10:15 AM	12:00 PM	Lectern Session 1457	Current Issues in Low Volume Road Management	
			Estimation of Traffic Volumes on Low-Volume Roads: Interpretable Machine Learning Approach	Co-Author(s): S. Das, I. Tsapakis, W. Holik, S. Datta, X. Kong
			Safety Performance Functions for Low Volume Rural Stop-Controlled Intersections	Co-Author(s): R. Avelar, S. Geedipally

10:15 AM	12:00 PM	Lectern Session 1462	Evaluation of Transportation Structures Using Non-Destructive Testing Methods	Presiding: S. Hurlebaus
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Lectern Session 1454	Evolution of Travel: Shifts in Vehicles, Driving, and Emissions	
			Air Quality and Health Impacts of Freight Modal Shifts - Review and Assessment	Co-Author(s): T. Ramani, R. Jaikumar, H. Khreis

10:15 AM	12:00 PM	Poster Session 1492	Non-Motorized Transport and Traffic in Developing Countries	
			Requirements and Actions to Implement Cross-Border Virtual Traffic Management Centers in Binational Metropolitan Regions entailing Developed and Developing Countries - Case Study of Texas-Mexico Border	Co-Author(s): D. Salgado, R. Macias, J. Villa, R. Aldrete, S. Samant

10:15 AM	12:00 PM	Lectern Session 1459	Recent Advances in Geospatial Data Acquisition	
			Application of Unmanned Aerial Vehicle to Inspect and Inventory Interchange Assets to Mitigate Wrong-Way Entries	Co-Author(s): S. Das

10:15 AM	12:00 PM	Poster Session 1490	Traffic Safety in Developing Countries	Presiding: D. Salgado
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1:30 PM	3:15 PM	Poster Session 1560	Advanced Modeling and Characterization of Asphalt Pavements and Mixtures	
			Crack Modeling of Bituminous Mixtures Using Nonlinear Viscoelastic Cohesive Zone (NVCZ): Model Calibration and Validation	Co-Author(s): D. Little

1:30 PM	3:15 PM	Poster Session 1558	Asphalt Binder Aging, Low Temperature Testing, High Temperature Testing, Creep Recovery, Fatigue, and Other Topics	
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
1:30 PM	3:15 PM	Poster Session 1558	Asphalt Binder Aging, Low Temperature Testing, High Temperature Testing, Creep Recovery, Fatigue, and Other Topics	
			The Influence of Chemical Constituents of Asphalt Binders on Their Rheological Properties	Co-Author(s): L. Kakumanu, E. Masad
1:30 PM	3:15 PM	Lectern Session 1514	Best of 2018 TRB Tools of the Trade Conference: Transportation Planning for Small and Medium Areas	
			Connected, Automated, and Autonomous Vehicle Scenario Planning in a University Community	Presenting: K. Turnbull
1:30 PM	3:15 PM	Poster Session 1554	Confirming Existing, Enhancing Current, and Developing New Geometric Design Practices	
			Study of Characteristic Indicators and Critical Lengths of Long Tangent Highway Sections Using Support Vector Machine-Recursive Feature Elimination	Co-Author(s): Y. Zhang
1:30 PM	3:15 PM	Lectern Session 1524	Considerations for Advancing Asphalt Pavements	
			Mechanistic-Empirical Methodology for the Selection of the Cost Effective Interface Layer Material	Co-Author(s): A. Banihashemrad, B. Wilson, M. Sakhaeifar, S. Hu
1:30 PM	3:15 PM	Lectern Session 1519	Innovations in Roadside Safety Barriers	
			Development and Evaluation of Concrete Barrier Containment Options for Errant Motorcycle Riders	Co-Author(s): C. Silvestri Dobrovolny, S. Shi, J. Kovar, R. Bligh
			Development of a New Mash TL-3 Low-Profile Portable Concrete Barrier for High-Speed Applications	Co-Author(s): C. Silvestri Dobrovolny, S. Shi, J. Kovar, R. Bligh, S. Hurlebaus

15-Jan

Tue

Begin

End

Session No.

Title

Role/Member

1:30 PM

3:15 PM

Lectern Session 1519

Innovations in Roadside Safety Barriers

Mash Test-Level 4 Compliant Restrained and Free-Standing
Precast Concrete BarrierCo-Author(s): N. Sheikh, W.
Williams, R. Bligh

1:30 PM

3:15 PM

Poster Session 1552

Making Transportation Research Smart,
Sustainable, and Equitable Through
Libraries, Information, and DataData Curation using Deep Learning: A Framework for Fast
Growing Transportation Science Resources

Co-Author(s): S. Das, A. Dutta

1:30 PM

3:15 PM

Poster Session 1557

Pavement Surface Properties and Vehicle
InteractionEvaluating Hydroplaning Potential Using Mobile LiDAR
MeasurementsCo-Author(s): C. Gurganus, N.
Gharaibeh

1:30 PM

3:15 PM

Lectern Session 1530

Timely and Relevant Pavement Marking
and Pavement Marker Topics: Machine
Vision Detection of Markings, Green Bike
Lanes, Wet Weather Markings, and
Nighttime Visibility of Pavement MarkersStudying the Nighttime Visibility Performance of
Retroreflective Pavement Markers

Co-Author(s): A. Pike

Machine Vision Detection of Pavement Markings

Co-Author(s): A. Pike, T. Barrette

Safety Effects of Wet-Weather Pavement Markings

Co-Author(s): E. Park, A. Pike

1:30 PM

3:15 PM

Poster Session 1559

Use of Reclaimed Pavement Materials:
Recycled Asphalt Pavement and Cold
Recycling

15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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1:30 PM	3:15 PM	Poster Session 1559	Use of Reclaimed Pavement Materials: Recycled Asphalt Pavement and Cold Recycling	
			A Method to Quantify Reclaimed Asphalt Pavement (RAP) Binder Availability (Effective RAP Binder) in Recycled Asphalt Mixes	Co-Author(s): F. Kaseer, E. Arambula Mercado, A. Epps Martin

1:30 PM	3:15 PM	Lectern Session 1521	Utility Delays?: Rethinking How We Look at the Entire Project Delivery Process	
			How The Six Pillars of Utility Engineering Can Improve Project Delivery	Presenting: C. Quiroga

3:45 PM	5:30 PM	Poster Session 1632	Alcohol, Other Drugs, and Transportation	
			Classification of Fatigued Driving and Drunk Driving Based on Decision Tree Methods: A Simulator Study	Co-Author(s): Y. Zhang

3:45 PM	5:30 PM	Poster Session 1626	Current Research Related to Asphalt Surface Mixtures	
			Proposed Cantabro Loss Thresholds For Thin, Aged, And Moisture Conditioned Open Graded Friction Course Specimens	Co-Author(s): E. Arambula Mercado, A. Epps Martin
			Proposed Cantabro Loss Thresholds For Thin, Aged, And Moisture Conditioned Open Graded Friction Course Specimens	Co-Author(s): E. Arambula Mercado, A. Epps Martin

3:45 PM	5:30 PM	Poster Session 1703	Environmental Justice	
			Addressing Environmental Justice Concerns in a Border Region: A Case Study of El Paso, Texas	Co-Author(s): J. Shelton, G. Valdez

3:45 PM	5:30 PM	Poster Session 1619	Innovations in Public Involvement Research and Practice	
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15-Jan

Tue

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM	Poster Session 1619	Innovations in Public Involvement Research and Practice	
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			A "How to Guide" On Big Public Engagement in a "Smallish Town"	Co-Author(s): M. Metsker-Galarza, T. Lomax, T. Geiselbrecht, C. Simek
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			Youth Transportation Safety Program	Presenting: S. Tisdale
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3:45 PM	5:30 PM	Lectern Session 1608	Making Rural Transit Better	
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			Optimal Rural Transit Fare Estimation Using Ridership and Air Quality Data	Co-Author(s): L. Galicia
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			Development of the Cost Baseline for Achieving Excellence in Rural Transit Facilities	Co-Author(s): S. Anderson
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3:45 PM	5:30 PM	Poster Session 1633	Methodologies to Explore Older Adult Safety	
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			Aging Pedestrian Fatal Crash related Contributing Factors: Applying Empirical Bayes Geometric Mean Method	Co-Author(s): S. Das, A. Bibeka, H. Zhou
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			Pattern Identification from Aging Bicyclist Fatal Crashes	Co-Author(s): S. Das, K. Jha, K. Fitzpatrick, M. Brewer, T. Shimu
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3:45 PM	5:30 PM	Lectern Session 1579	Non-Motorized Transport in Developing Countries	Presiding: R. Aldrete
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3:45 PM	5:30 PM	Lectern Session 1578	Recent Research on Pricing and Managed Lanes	
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15-Jan

Tue

Begin

End

Session No.

Title

Role/Member

3:45 PM

5:30 PM

Lectern Session 1578

Recent Research on Pricing and Managed Lanes

Handling Congestion for Dynamically-Priced Managed Lanes with a Maximum Toll Cap

Presenting: N. Wood

Tracking the Impact of a Toll Increase on Managed Lane Travel Behavior

Co-Author(s): M. Burris, S. Ashraf

3:45 PM

5:30 PM

Lectern Session 1593

Reliability of Steel Girder Bridges

Truck Platoon Impacts on Steel Girder Bridges

Co-Author(s): M. Yarnold

3:45 PM

5:30 PM

Poster Session 1628

Traffic Control Devices 2019

Developing and Implementing MUTCD Criteria for Selecting Traffic Control for Unsignalized Intersections

Co-Author(s): G. Hawkins, K. Fitzpatrick, M. Brewer

Evaluation of Audible Lane Departure Warning Treatments

Co-Author(s): A. Pike, B. Wilson

Closed-Course Examination of Raised Retroreflective Pavement Markers Impact on Speed Change and Braking Behavior in Small Radius Curves

Co-Author(s): T. Barrette, A. Pike

Closed-Course Assessment of Driver Lane-Keeping Behavior through Small-Radius Curves in the Presence of RRPMS

Co-Author(s): E. Rista, T. Barrette, A. Pike

Traffic Control Devices for Deterring Wrong-Way Movements at Unsignalized Intersections on Divided Highways

Co-Author(s): M. Finley, R. Avelar, G. Hawkins

3:45 PM

5:30 PM

Poster Session 1622

Updates on Emerging Technologies and Performance Assessments of Asphalt Paving

15-Jan**Tue**

Begin	End	Session No.	Title	Role/Member
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3:45 PM	5:30 PM	Poster Session 1622	Updates on Emerging Technologies and Performance Assessments of Asphalt Paving Development of a Cracking Resistance Index Threshold for Assessing Low-Temperature Thermal Cracking with Field Validation	Co-Author(s): A. Epps Martin
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5:30 PM	7:00 PM		Freight and Marine Caucus (sponsored by BNSF)	Presiding: J. Kruse
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6:00 PM	7:30 PM		Freeway Operations Committee (Part 2 of 2)	Presiding: B. Kuhn
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6:00 PM	7:30 PM	AND10(3)	Human Factors in Road Vehicle Automation, AND10(3), Joint Subcommittee of AND10, AHB15, AHB30	Presiding: M. Manser
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6:00 PM	7:30 PM	Poster Session 1658	Traffic Flow Theory and Characteristics, Part 3 (Part 1, Session 1656; Part 2, Session 1657; Part 4, Session 1704; Part 5, Session 1753) On Development of State-Based Fundamental Diagram for Signalized Intersection using Connected Vehicle Trajectory Predictive Speed Harmonization in a Connected Environment: A Machine Learning Approach	Co-Author(s): X. Guo, X. Xiao, Y. Zhang, C. Ma Co-Author(s): A. Talebpour
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6:00 PM	7:30 PM	Lectern Session 1644	Transport Safety in Developing Countries	
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15-Jan

Tue

Begin

End

Session No.

Title

Role/Member

6:00 PM

7:30 PM

Lectern Session 1644

Transport Safety in Developing Countries

Crash involvement and risky riding behaviors among delivery riders in China: The role of working conditions

Co-Author(s): Y. Zhang

6:00 PM

7:30 PM

Lectern Session 1651

TRB Research on Automated and Connected Vehicle Technologies (NCHRP 20-102)

Updating Regional Transportation Planning and Modeling Tools to Address CV and AV Impacts

Presenting: J. Zmud

16-Jan

Wed

Begin	End	Session No.	Title	Role/Member
8:00 AM	9:45 AM	Poster Session 1708	Advances in Pedestrian Safety Research	
			The Challenge of Safe and Active Transportation: Examination of Pedestrian and Bicycle Crashes in yhe Austin District	Co-Author(s): I. Sener, K. Lee, J. Hudson, M. Martin, B. Dai
			Louisiana Pedestrian Crash Analysis with Multinomial Logit Model and Bayesian Network	Co-Author(s): S. Das
8:00 AM	9:45 AM	Lectern Session 1676	Asphalt Tack Coat Tracking and Bond Strength: Field Performance	
			Investigation of the Significant Factors Affecting the Shear Bond Strength in the Field	Co-Author(s): A. Banihashemrad, M. Sakhaeifar, B. Wilson, A. Seo
8:00 AM	9:45 AM	Lectern Session 1679	Automated Vehicles and Shared Mobility: Addressing the Big Questions	
				Panel Member: G. Winfree
8:00 AM	9:45 AM	Poster Session 1693	Automated Vehicles and Travel Behavior	
			Commuters' Valuation of Travel Time in Autonomous Vehicles and Travel Mode Choices in Small and Medium-Sized Metropolitan Areas	Co-Author(s): H. Zhong, W. Li, M. Burris, A. Talebpour
8:00 AM	9:45 AM	Poster Session 1709	Bus Transit Research and Practices, Part 2 (Part 1, Session 1573)	
			A Practical Approach for Evaluating and Scheduling a Campus Bus System Based on Clustering	Co-Author(s): A. Mahmoudzadeh, B. Ochoa, X. Wang, J. Tippy
8:00 AM	9:45 AM	Lectern Session 1685	Corridors and Freight Performance Measurement	

16-Jan

Wed

Begin	End	Session No.	Title	Role/Member
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8:00 AM	9:45 AM	Lectern Session 1685	Corridors and Freight Performance Measurement	
			Implementing Freight Fluidity in Texas	Co-Author(s): N. Katsikides, W. Eisele, D. Schrank, M. Monsreal

8:00 AM	9:45 AM	Lectern Session 1686	Cross-Border Costs, Investment Optimization, and Wait Time Predictions	
			Machine Learning Based Short-Term Wait Time Prediction Model for US-Mexico Border Crossing	Co-Author(s): S. Sharma, D. Kang, J. Montes do Oca

8:00 AM	9:45 AM	Poster Session 1711	Current Research in Agriculture and Food Transportation	Presiding: J. Prozzi
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8:00 AM	9:45 AM	Poster Session 1706	Highway Safety Performance	
			Developing Safety Performance Functions for North Carolina Low-Volume Roadways	Co-Author(s): S. Das, I. Tsapakis, S. Datta
			Examining the Safety Performance and Injury Severity Characteristics of Rural County Roadways	Co-Author(s): S. Geedipally, R. Avelar
			Integrated Approach to the Network Screening of Urban Intersections	Co-Author(s): B. Dadashova, K. Dixon, I. Tsapakis, J. Li
			A Novel Approach for Estimating Crash Modification Factors: Jointly Modeling Crash Counts and Time Intervals between Crashes	Co-Author(s): L. Wu, Y. Meng, X. Kong

8:00 AM	9:45 AM	Lectern Session 1680	Intelligent Transportation Systems: Connected Vehicle Applications for Deployment	
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16-Jan

Wed

Begin	End	Session No.	Title	Role/Member
8:00 AM	9:45 AM	Lectern Session 1680	Intelligent Transportation Systems: Connected Vehicle Applications for Deployment	
			Development and Testing of Connected Vehicle Wrong-Way Driving Applications	Co-Author(s): M. Finley, K. Balke, H. Charara, D. Florence, C. Silvestri Dobrovolny
8:00 AM	9:45 AM	Lectern Session 1678	Pavement Design Best Practices Using Stabilized or Recycled Roadway Materials	
			Relating NDT testing and lab design work to FWD and obtaining in-situ design moduli values	Presenting: T. Scullion
8:00 AM	9:45 AM	Lectern Session 1673	Practical Applications in Concrete Pavement	
			Long-Term Performance Evaluation of Concrete Pavements Containing Recycled Concrete Aggregate in Oklahoma	Co-Author(s): X. Shi, A. Mukhopadhyay, D. Zollinger
			Development of a New Faulting Model in Jointed Concrete Pavement Using LTPP Data	Co-Author(s): Y. Chen, R. Lytton
8:00 AM	9:45 AM	Lectern Session 1670	Young Practitioner Research in Asphalt	
			A Case Study for Developing Specification Limits for Hot-Mix Asphalt and The Impact on Pay Factors	Presenting: H. Al-Khayat
			Optimizing Recycled Materials Content and Recycling Agent Dose in Asphalt Mixtures	Presenting: F. Kaseer
8:00 AM	11:45 AM		TRB Executive Committee	<i>Invitation Only</i> Presiding: K. Turnbull
8:00 AM	12:00 PM		Roadside Safety Design Committee	Presiding: R. Bligh

16-Jan

Wed

Begin	End	Session No.	Title	Role/Member
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8:00 AM	12:00 PM		Roadside Safety Design Committee	Presiding: R. Bligh
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10:15 AM	12:00 PM	Lectern Session 1731	Advanced Numerical Analysis on the Response of Bridge Structures and Earth Retaining Structures Subject to Geoseismic Hazards	
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			Nonlinear Dynamic Analysis of Reinforced Concrete Bridges to Collapse	Presenting: P. Sideris
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10:15 AM	12:00 PM	Poster Session 1499	Bicycle Transportation Research	
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			Exploring Street Noise and Bicycle Safety: Initial Evidence from Austin, TX and the Washington, DC Capital Area	Co-Author(s): G. Griffin, B. Dai, C. Simek
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			What are Vulnerable Road Users' Perceptions and Expectations on Autonomous Vehicles?	Co-Author(s): T. Weng
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10:15 AM	12:00 PM	Poster Session 1747	Collaboration and Innovation in Performance-Based Metropolitan Planning, System Management, and Analysis	
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			Analyzing Freight Management Strategies using Dynamic Traffic Assignment: Case Study of Houston, Texas	Co-Author(s): G. Cenicerros, J. Shelton, S. Sushant
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10:15 AM	12:00 PM	Poster Session 1752	Guidance, Policy, and Frameworks for Connected and Autonomous Vehicle Systems	
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			Privacy Risk of Connected Vehicles: Vehicle Tracking Based on BSM Type 1 Data	Co-Author(s): M. Khajeh-Hosseini, A. Talebpour, S. Shakkottai
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16-Jan

Wed

Begin	End	Session No.	Title	Role/Member
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10:15 AM	12:00 PM	Poster Session 1749	Impacts of Information Communication and Technologies on Transportation	
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Youtube as a Source of Information in Understanding Autonomous Vehicle Consumers: A Natural Language Processing (NLP) Study

Co-Author(s): S. Das, A. Dutta, Z. Elgart

12:00 PM	2:00 PM		Chair's Luncheon	Presiding: K. Turnbull
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2:30 PM	4:00 PM	Poster Session 1774	Funding and Financing Surface Transportation: What Will the Future Bring	
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Texas Transportation Reinvestment Zone Monitoring and Evaluation Toolkit – TRZ Dashboard

Presenting: R. Aldrete

2:30 PM	4:00 PM	Lectern Session 1756	Machine Learning Methods for Prediction, Forecasting, and Analysis of Transportation Applications	
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Injury Severity Analysis from Crash Narratives: A Case Study of Interpretable Machine Learning using Tree and Utility Pole related Traffic Crashes

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

Traffic Prediction Using Time-Space Diagram: A Convolutional Neural Network Approach

Co-Author(s): M. Khajeh-Hosseini, A. Talebpour

2:30 PM	4:00 PM	Poster Session 1776	Transportation Issues and Solutions in Major Cities	
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Bid-Based Priority Signal Control in A Connected Environment: Concept

Co-Author(s): K. Iio, Y. Zhang, L. Quadrifoglio

2:30 PM	6:00 PM		Highway Safety Performance Committee	Presiding: K. Dixon
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16-Jan

Wed

Begin

End

Session No.

Title

Role/Member

2:30 PM

6:00 PM

Highway Safety Performance Committee

Presiding: K. Dixon

2:30 PM

6:00 PM

TRB Executive Committee

Invitation Only

Presiding: K. Turnbull

7:30 PM

9:30 PM

Combined Highway Safety Performance
Research Subcommittees Meeting

Presiding: K. Dixon

17-Jan

Thu

Begin	End	Session No.	Title	Role/Member
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8:00 AM	12:00 PM	Workshop 1798	Exploring the Complexity of Pedestrian Fatality Trends: Understanding the Underlying System to Inform More Effective Action	
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			Case Studies in Applying Systems Science Tools to Examine Transportation Safety Issues	Presenting: Y. Apostolopoulos
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8:00 AM	12:00 PM		Highway Safety Performance Committee	Presiding: K. Dixon
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8:00 AM	12:00 PM		TRB Executive Committee	<i>Invitation Only</i> Presiding: K. Turnbull
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