



THE 96th ANNUAL MEETING OF THE TRANSPORTATION RESEARCH BOARD: JANUARY 2017 LONGHORN PRESENTATION SCHEDULE

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Workshops

Sunday, January 8, 2017

<i>Workshop No.</i>	<i>Committee Sponsor</i>	<i>Participants</i>	<i>Time</i>	<i>Location</i>	<i>Workshop Title</i>
115	ADC70 ADC70(3) ADC80 AHB30 AP020	Bumsik Kim, Elham Pourrahmani, Daniel Fagnant	9:00 AM- 12:00 PM	Convention Center, 146B	Potential Benefits and Cost of Connected and Automated Vehicles: Texas Case Study
116	ADD20 ADD40	Kara Kockelman	9:00 AM- 12:00 PM	Convention Center, 146A	Economic and Travel Impacts of Connected and Automated Vehicles
131	AHB00	Ehsan Jafari	9:00 AM- 12:00 PM	Convention Center, 102B	Network Modeling and Design: Distributed Problem-Solving Approach
131	AHB00	Amber Chen	9:00 AM- 12:00 PM	Convention Center, 102B	Improving the Efficiency of Network Analysis Tools
147	ABJ80	Kara Kockelman	9:00 AM- 12:30 PM	Convention Center, 154	Overview of Spatial Analysis for Transportation Analysis
159	ABJ50 ABJ20 ABJ60	Stephen Ratke	1:30 PM- 4:30 PM	Convention Center, 151B	Roadway Data Extraction Technical Assistance Program: Texas DOT Case Study



195	ADB00 ADB30 ADB40 ADB10 ADB20 ADB50 AHB45	Michael Levin	1:30 PM- 5:00 PM	Convention Center, 146A	Modeling and Optimizing Network Infrastructure for Autonomous Vehicles
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Committee Meetings

Monday, January 9, 2017

<i>Committee Sponsor</i>	<i>Participants</i>	<i>Time</i>	<i>Location</i>	<i>Title</i>
ABG30	Kristie Chin, Andrea Gold	8:00 AM- 12:00 PM	Marriott Marquis, Liberty J (M4)	Technology Transfer Committee

Tuesday, January 10, 2017

A0010	Jorge Prozzi, Dario Menichetti	1:30 PM- 3:15 PM	Marriott Marquis, Liberty I (M4)	International Research Needs Subcommittee
ADB30(4)	Jennifer Duthie	1:30 PM- 3:15 PM	Marriott Marquis, Monument (M4)	Network Models in Practice Subcommittee
AFK50(1) AFK50	Amit Bhasin	7:30 PM- 9:30 PM	Marriott Marquis, Georgetown University (M1)	Advanced Models to Understand Behavior and Performance of Asphalt Mixtures Subcommittee

Wednesday, January 11, 2017

ADB00	Chandra Bhat	12:15 PM- 2:15 PM	Marriott Marquis, Capitol Hill (M3)	Travel Analysis Methods Section Executive Board (By Invitation)
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Poster Sessions

Monday, January 9, 2017

Session No.	Committee Sponsor	Participants	Time	Location	Title	Board No.
223	AFH15 AFH00 AFH10 AFH20(1)	Mayra Martinez, William O'Brien, Nabeel Khwaja, James O'Connor, William Hale	8:00 AM- 9:45 AM	Convention Center, Hall E	Formal Approach to Delivery Method Selection for Texas Department of Transportation	F259
348	ABE10	Lewis Clements, Kara Kockelman	8:00 AM- 9:45 AM	Convention Center, Hall E	Economic Effects of Autonomous Vehicles	L411
349	ABE10, ABE10(1)	Zhe Han, Juan Porras-Alvarado	8:00 AM- 9:45 AM	Convention Center, Hall E	Monte Carlo Simulation-Based Assessment of Risks Associated with PPP Investments in Toll Highway Infrastructure	L423
349	ABE10, ABE10(1)	James Kuhr	8:00 AM- 9:45 PM	Convention Center, Hall E	Ridesharing and Public-Private Partnerships: Current Issues--Proposed Framework and Benefits	L420
275	ABC40	Juan Porras-Alvarado, Zhe Han, Zhanmin Zhang	10:15 AM- 12:00 PM	Convention Center, Hall E	Utility-Based Asset Valuation Approach to Cross Asset Resource Allocation Considering Efficiency and Equity	F256
284	ABJ35	Jia Li, Kenneth Perrine, C. Michael Walton	10:15 AM- 12:00 PM	Convention Center, Hall E	Identifying Faulty Loop Detectors Through Kinematic Wave-Based Traffic State Reconstruction from Transit Probe Data	E244
288	ABJ80	Chandra Bhat, Patricia Lavieri	10:15 AM- 12:00 PM	Convention Center, Hall E	New Mixed MNP Model Accommodating a Variety of Dependent Nonnormal Coefficient Distributions	B133
298	AFB10	Stefanos Politis, Konstantinos	10:15 AM- 12:00 PM	Convention Center, Hall E	Sequential Model for Optimal Design of Highway Alignments	H312



Kepaptsoglou, Basil Psarianos						
320	AHB25	Amber Chen, Ahmad Alrashidan, Pavle Bujanovic, Randy Machemehl, Carolina Baumanis	10:15 AM- 12:00 PM	Convention Center, Hall E	Comparing Bus Priority System Logic Concepts Using Conditionally Active Signal Control in Austin, Texas	L411
350	ABE20	C. Michael Walton, Nan Jiang, Rydell Walthall, Kevin Savage	1:30 PM- 3:15 PM	Convention Center, Hall E	Economic Analysis of Freight Corridors and Projects in Texas	B133
469	AR010	Ming Zhang	3:45 PM- 5:30 PM	Convention Center, Hall E	Impacts of High-Speed Rail on Mobility, Accessibility, and Economic Development: Updated Evidence from China	R553

Tuesday, January 10, 2017

<i>Session No.</i>	<i>Committee Sponsor</i>	<i>Participants</i>	<i>Time</i>	<i>Location</i>	<i>Title</i>	<i>Board No.</i>
605	AT060	Mohammad Neaz Murshed, Randy Machemehl	0:15 AM- 12:00 PM	Convention Center, Hall E	An Estimation Procedure for Network Wide Truck Traffic Volumes Using Commercial Vehicle Survey Data	C168
508	ADB10	Will Schievelbein, Kara Kockelman, Prateek Bansal, Scott Schauer- West	8:00 AM- 9:45 AM	Convention Center, Hall E	Indian Vehicle Ownership and Travel Behaviors: Case Study of Bangalore, Delhi. and Kolkata	E234
508	ADB10	Chandra Bhat, Abdul Pinjari, Subodh Dubey, Amin Hamdi	8:00 AM- 9:45 AM	Convention Center, Hall E	Joint Mixed Spatial Model of Household Residential Choice, Vehicle Ownership, Commute Travel Mode Choice, and Children's School Travel Mode Choice	E235
527	AHB15	Edward Canepa, Christian Claudel	8:00 AM- 9:45 AM	Convention Center, Hall E	A Model-based Framework for User	G288



					Privacy Analysis Using Probe Traffic Data	
532	AHB45	Michele Simoni, Christian Claudel	8:00 AM- 9:45 AM	Convention Center, Hall E	A Fast Algorithm for Signal Timing Optimization in Corridors using Semi-explicit Solutions to Hamilton- Jacobi Equations	M448
532	AHB45	Edward Canepa, Christian Claudel	8:00 AM- 9:45 AM	Convention Center, Hall E	Networked Traffic State Estimation Involving Traffic Data Using Hamilton-Jacobi Equations	M449
590	ANB20	Elizabeth Welch, Ming Zhang, Junfeng Jiao	10:15AM- 12:00PM	Convention Center, Hall E	Identifying Factors Explaining Pedestrian Crash Severity: Study of Austin, Texas	F270
629	ADD20 ADB40 ADD30	Prateek Bansal, Kara Kockelman	1:30 PM- 3:15 PM	Convention Center, Hall E	Are We Ready to Embrace Connected and Self-Driving Vehicles? Case Study of Texans	C161
659	ANF10	Krishna Murthy Gurumurthy, Caleb Munigety, Srinivas Peeta, Tom Mathew, Gowri Asaithambi	1:30 PM- 3:15 PM	Convention Center, Hall E	Integrated Pedestrian Crossing Behavioral Model Using Spring- Mass-Damper Dynamics	P506
627	ADD10 AB020T AT010	Guangmin Wang, Kara Kockelman	3:45 PM- 5:30 PM	Convention Center, Hall E	Local Sensitivity Analysis of Forecast Uncertainty in a Random-Utility- Based Multiregional Input-Output Model	D190
627	ADD10 AB020T AT011	Taehoon Lim, Juan Porras-Alvarado, Zhanmin Zhang	3:45 PM- 5:30 PM	Convention Center, Hall E	Methodological Framework to Evaluate Economic Benefits of Existing Roadway for Highway Asset Valuation	D192
718	AFK20	Ramez Hajj, Rachel Hure, Amit Bhasin	3.45 PM - 5.30PM	Convention Center, Hall E	Evaluation of Stiffness, Strength, and Ductility of Asphalt Binders at Intermediate Temperature	J345



718	AFK20	Nazmus Sakib, Adam Ramm, Michael Downer, Amit Bhasin	3.45 PM - 5.30PM	Convention Center, Hall E	Time-Dependent Variation of Asphalt Rheology and Corresponding Development of Microstructures	J346
719	AFK20	Amit Bhasin, Feroze Rashid, Zahid Hossain	3.45 PM - 5.30PM	Convention Center, Hall E	Investigation of Nanomechanistic Properties of Reclaimed Asphalt Pavement Modified Asphalt Binders by Using an Atomic Force Microscope	H321
719	AFK20	Meng Guo, Amit Bhasin, Yiqiu Tan	3.45 PM - 5.30PM	Convention Center, Hall E	Effect of Mineral Filler Adsorption on Rheological and Chemical Properties of Asphalt Binder	H322

Wednesday, January 11, 2017

Session No.	Committee Sponsor	Participants	Time	Location	Title	Board No.
780	ADB50	Benjamin Loeb, Kara Kockelman, Jun Liu	8:00 AM- 9:45 AM	Convention Center, Hall E	Shared Autonomous Electric Vehicle Operations Across Austin, Texas, Network with Focus on Charging Infrastructure Decisions	D193
798	AHB45	Michael Levin; Stephen Boyles	8:00 AM- 9:45 AM	Convention Center, Hall E	Pressure-based Policies for Reservation-based Intersection Control	J360
827	ADB30	Ehsan Jafari, Stephen Boyles	10:15 AM- 12:00 PM	Convention Center, Hall E	Online Charging and Routing of Electric Vehicles in Stochastic Time-Varying Networks	F255
827	ADB30	Tarun Rambha, Stephen Boyles, Avinash Unnikrishnan	10:15 AM- 12:00 PM	Convention Center, Hall E	Minimum Expected Revenue System Optimum Tolls Under Supply-Side Uncertainty	F256



829	ADB40	Chandra Bhat, Filipe Dias, Patricia Lavieri, Venu Garikapati, Sebastian Astroza, Ram Pendyala	10:15 AM-12:00 PM	Convention Center, Hall E	Behavioral Choice Model of Use of Carsharing and Ride-Sourcing Services	A108
829	ADB40	Chandra Bhat, Sebastian Astroza, Priyadarshan Patil, Katherine Smith	10:15 AM-12:00 PM	Convention Center, Hall E	Transportation Planning to Accommodate Needs of Wind Energy Projects	A107
829	ADB40	Jun Liu, Kara Kockelman, Patrick Boesch, Francesco Ciari	10:15 AM-12:00 PM	Convention Center, Hall E	Tracking a System of Shared Autonomous Vehicles Across the Austin, Texas, Network Using Agent-Based Simulation	A110
829	ADB40	Yong Zhao, Kara Kockelman	10:15 AM-12:00 PM	Convention Center, Hall E	Anticipating Regional Impacts of Connected and Automated Vehicle Travel in Austin, Texas	A111
847	AHB30	Michael Motro, Alice Chu, Junil Choi, Patricia Lavieri, Abdul Pinjari, Chandra Bhat, Joydeep Ghosh, Robert Heath	10:15 AM-12:00 PM	Convention Center, Hall E	Vehicular Ad Hoc Network Simulations of Overtaking Maneuvers on Two-Lane Rural Highways	K375
852	ANF20	Chandra Bhat, Sebastian Astroza, Amin Hamdi	10:15 AM-12:00 PM	Convention Center, Hall E	On Recognizing Social Interaction Effects in Bicycling Use and Frequency	H323



Conference Sessions

Monday, January 9, 2017

Session No.	Committee Sponsor	Participants	Time	Location	Title
320	AHB25	Amber Chen, Ahmad Alrashidan, Pavle Bujanovic, Randy Machemehl, Carolina Baumanis	10:15 AM-12:00PM	Convention Center, Hall E	Comparing Bus Priority System Logic Concepts Using Conditionally Active Signal Control in Austin, Texas
323	AHD10	Randy Machemehl, Ahmad Alrashidan	10:15 AM-12:00 PM	Convention Center, 209B	GIS-Based Tool for Forecasting Unusually Heavy Truck Loadings Resulting from Rapid Land Use Changes
323	AHD10	Juan Porras-Alvarado, Mike Murphy, Hui Wu, Zhe Han, Zhanmin Zhang, Mike Arellano	10:15 AM-12:00 PM	Convention Center, 209B	Analytical Hierarchy Process to Improve Project Prioritization in Austin District in Texas
324	AHD18	Wilfrido Martinez, Natalia Zuniga Garcia, Andre Smit, Jorge Prozzi	10:15 AM-12:00 PM	Convention Center, 204B	Life-Cycle Cost Analysis of Pavement Preservation Techniques in Texas
366	ADB10	Patricia Lavieri, Venu Garikapati, Chandra Bhat, Ram Pendyala, Sebastian Astroza, Filipe Das	1:30 PM-3:15 PM	Convention Center, 145A	Modeling Individual Preferences for Ownership and Sharing of Autonomous Vehicle Technologies
368	ADC00 ADC20 ADC70 ADC80	Kara Kockelman	1:30 PM-3:15 PM	Convention Center, 146A	Energy and Greenhouse Gas Emissions of Shared Autonomous Vehicles
425	ADB10	Patricia Lavieri, Venu Garikapati, Chandra Bhat	3:45 PM-5:30 PM	Convention Center, 145A	Investigation of Heterogeneity in Vehicle Ownership and Usage for the Millennial Generation
426	ADB30	Stephen Boyles, Ehsan Jafari	3:45 PM-5:30 PM	Convention Center, 146B	Online Charging and Routing of Electric Vehicles in Stochastic Time-Varying Networks



Tuesday, January 10, 2017

Session No.	Committee Sponsor	Participants	Time	Location	Title
496	ABG50 ABJ10	C. Michael Walton	8:00 AM- 9:45 AM	Convention Center, 152B	Lessons from the History of Statistics in U.S. Department of Transportation for a Future of Soundbites, Infographics, and Performance Measurement
498	ABJ20 ABJ00	Jennifer Duthie	8:00 AM- 9:45 AM	Convention Center, 152A	Network Modeling
511	ADB30	Michael Levin, Stephen Boyles	8:00 AM- 9:45 AM	Convention Center, 145A	Modeling Cooperative Adaptive Cruise Control in Dynamic Traffic Assignment
517	AFB60	Frank Schalla, Muhammad Ashraf, Michael Barrett, Ben Hodges	8:00AM- 9:45AM	Convention Center, 209A	Limitations of Traditional Capacity Equations for Long Curb Inlets
529	AHB30 AD000 ADC80 AH000 AN000 AP000 AP020	Kara Kockelman	8:00 AM- 9:45 AM	Convention Center, Salon C	Impacts of Shared, Connected, and Automated Vehicle Systems: Recommendations for Public Agencies
559	ADB10	Sebastian Astroza, Abdul Pinjari, Chandra Bhat, Sergio Jara-Diaz	10:15 AM- 12:00 PM	Convention Center, 145A	Microeconomic Theory-Based Latent Class Multiple Discrete-Continuous Choice Model of Time Use and Goods Consumption
605	AT060	Mohammad Neaz Murshed, Randy Machemehl	10:15AM- 12:00PM	Convention Center, Hall E	An Estimation Procedure for Network Wide Truck Traffic Volumes Using Commercial Vehicle Survey Data
621	ADB40	Sebastian Astroza, Priyadarshan Patil, Katherine Smith, Chandra Bhat	1:30 PM- 3:15 PM	Convention Center, 156	Transportation Planning to Accommodate Needs of Wind Energy Projects
621	ADB40	Yong Zhao, Kara Kockelman	1:30 PM- 3:15 PM	Convention Center, 156	Anticipating the Regional Impacts of Connected and Automated Vehicle Travel in Austin, Texas



632	AFD90	Sareh Kouchaki, Jorge Prozzi, Andre Smit, Prasad Buddhavarapu	1:30 PM- 3:15 PM	Convention Center, 204C	Assessment of Using Inertial Profilers to Measure Ride Quality on Short Projects
901	AFD10	Md Al Amin, Zhanmin Zhang	1:30 PM- 3:15 PM	Convention Center, 202A	Managing Network-Level Pavement Condition: Integer Programming Approach
686	ABC30	Kristie Chin	3:45PM- 5:30PM	Convention Center, 154	Communicating Value to Stakeholders: Customer-Oriented Key Performance Indicator System for State Departments of Transportation
698	ADB20	Sebastian Astroza, Venu Garikapati, Chandra Bhat, Ram Pendyala, Patricia Lavieri, Filipe Das	3:45 PM- 5:30 PM	Convention Center, 146B	Analysis of the Impact of Technology Use on Multi- Modality and Activity-Travel Characteristics
699	ADB45	Chandra Bhat	3:45 PM- 5:30 PM	Convention Center, 145A	Shrinking the Innovation Gap in Travel Forecasting: Outcomes from the ITM16 Conference - Key Findings
699	ADB45	Josephine Kressner, Jennifer Duthie	3:45 PM- 5:30 PM	Convention Center, 145A	Innovation Gaps and Opportunities

Wednesday, January 11, 2017

Session No.	Committee Sponsor	Participants	Time	Location	Title
782	ADC20	Jun Liu, Kara Kockelman, Aqshems Nichols	8:00 AM- 9:45 AM	Convention Center, 146A	Anticipating Emissions Impacts of Smoother Driving by Connected and Autonomous Vehicles Using MOVES Model
790	AFK50	Reuber Freire, Lucas Babadopulos, Vero nica Castelo Branco, Amit Bhasin	8:00 AM- 9:45 AM	Convention Center, 201	Aggregate Maximum Nominal Size Influence on Fatigue Damage Performance Using Different Scales



808	ANF20	Matthew Ridgway, Jeffrey LaMondia, Jennifer Duthie	8:00am- 9:45am	Convention Center, Hall E	Bicycle Safety, Design, and Operations
827	ADB30	Ehsan Jafari, Stephen Boyles	10:15 AM- 12:00 PM	Convention Center, Hall E	Online Charging and Routing of Electric Vehicles in Stochastic Time-Varying Networks
827	ADB30	Tarun Rambha, Stephen Boyles, Avinash Unnikrishnan	10:15 AM- 12:00 PM	Convention Center, Hall E	Minimum Expected Revenue System Optimum Tolls Under Supply-Side Uncertainty
827	ADB30	Christopher Melson (FHWA), Michael Levin, Stephen Boyles	10:15 AM- 12:00 PM	Convention Center, Hall E	Modeling Cooperative Adaptive Cruise Control in Dynamic Traffic Assignment
865	ABJ90	Katie Kam, Nan Jiang, Pavle Bujanovic, Kevin Savage, Rydell Walthall, Dan Seedah, C. Michael Walton	2:30 PM- 4:00 PM	Convention Center, 143A	Finding and Exploring Use of Commodity-Specific Data Sources for Commodity Flow Modeling
868	ADB40 ADD20	Jun Liu, Kara Kockelman, Patrick Boesch, Francesco Ciari	2:30 PM- 4:00 PM	Convention Center, 145A	Tracking a System of Shared Autonomous Vehicles Across the Austin, Texas, Network Using Agent-Based Simulation
868	ADB40 ADD21	Prateek Bansal, Kara Kockelman	2:30 PM- 4:00 PM	Convention Center, 145A	Are We Ready to Embrace Connected and Self-Driving Vehicles? Case Study of Texans
868	ADB40 ADD20	Filipe Das, Patricia Lavieri, Venu Garikapati, Sebastian Astroza, Ram Pendyala, Chandra Bhat	2:30 PM- 4:00 PM	Convention Center, 145A	Behavioral Choice Model of the Use of Carsharing and Ride- Sourcing Services



Receptions

Sunday, January 8, 2017

<i>Host</i>	<i>Time</i>	<i>Location</i>	<i>Title</i>
Technical Activities Council	2:30 PM-4:00 PM	Convention Center, Ballroom AB	Welcome and Attendee Orientation Session
WTS	5:30 PM – 7:00 PM	Marquis Ballroom Salon 5, Marriott Marquis, 901 Massachusetts Avenue NW	WTS (Women's Transportation Seminar) Winter Reception (Walk-in Attendee: \$35)
University of Texas, Austin	7:00 PM – 8:30 PM	Marriott Marquis Capitol/Congress Room (M4)	University of Texas at Austin Reception
Young Members Council (YMC)	9:00 PM-10:30 PM	Convention Center, Ballroom South Pre-Function C	Young Professionals Reception

Monday, January 9, 2017

ITE	6:00 PM – 8:00 PM	1627 Eye Street, NW Suite 600 West Washington, DC 20006	ITE Student Open House
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Tuesday, January 10, 2017

Cambridge Systematics	12:30 PM – 3:30 PM	Renaissance Washington DC, 999 Ninth St NW	Cambridge Systematics' Career Event
ITE/ITS Student Chapter at UT Austin	6:00 PM – 8:00 PM	City Tap House 909 9 th Street Washington, DC 20001	ITE/ITS Student and Alumni Reception