

Sunday, January 13

Annual TTI Reception 6:30 p.m. - 8:00 p.m. Salon 3, Marriott Wardman Park Hotel

Session

Session Title

Jan 13 - Sunday

8:00AM - 12:00PM

Marriott - Congressional

Meeting

Technical Activities Council, **\*\*Members Only\*\***

Katherine F. Turnbull, TTI Presiding

8:30AM - 12:00PM

Marriott - Thurgood Marshall West

Workshop 101 **There Is Plenty of Room at the Bottom: Nanotechnology Applications for Asphalt and Concrete Materials**

*Panel Discussion*

Dallas N. Little, TTI

Presenter

9:00AM - 12:00PM

Hilton - International West

Workshop 134 **Pricing Start-ups: "Birthing" Pains for Priced Roadway Projects**

*Lessons Learned from Priced Road Projects Around the Nation*

Ginger D. Goodin, TTI

Presenter

Workshop 139 **Interplay of Congestion Pricing and Alternative Modes**

*What Is the Difference Between Managed Lanes and Salt? I Don't Know but They Both Hurt Slugs*

Mark W. Burris, TAMU

Presenter

Marriott - Maryland A

Workshop 107 **Pavement Marking Management: Best Practices and Safety Benefits**

*Specifications and Test Deck Evaluation: ASTM E2832-12--Measuring Coefficient of Retroreflected Luminance of Pavement Marking*

Session

Session Title

Jan 13 - Sunday

9:00AM - 12:00PM

*Specifications and Test Deck Evaluation: ASTM E2832-12--Measuring Coefficient of Retroreflected Luminance of Pavement Marking*

Paul J. Carlson, TTI

Presenter

1:30PM - 4:30PM

Hilton - Columbia Hall 9

**Workshop 181 Doctoral Student Research in Transportation Modeling**

*Examining Decision-Making Surrounding the Use of Managed Lanes by Katy Freeway Travelers: A Prospect Theory Approach*

Chao Huang, TTI

Presenter

**Workshop 182 Factoring Bicycle and Pedestrian Data**

*Bicycle and Pedestrian Factors: Establishing the Need*

Shawn M. Turner, TTI

Presenter

**Workshop 190 The Future of National Household Travel Data: Getting Feedback from the User Community**

Stacey Bricka, TTI

Presiding

Marriott - Congressional

**Subcommittee Pavement Management Systems International Conferences Subcommittee**

Roger E. Smith, TAMU

Presiding

**Workshop 153 Emerging Technologies for Quality Assurance—Quality Control of Transportation Infrastructure**

*Use of Infrared and Ground-Penetrating Radar to Monitor Hot-Mix Quality*

Tom Scullion, TTI

Presenter

Stephen Sebesta

Presenter

**Spotlight Session 158 History of Superpave: Understanding the Past and Linking to the Future**

*Development of Performance Prediction Models*

Robert Leonard Lytton, TAMU

Presenter

*Development of SHRP Research Plans*

Jon A. Epps, TAMU

Presenter

**Workshop 164 Strategies to Mitigate Impacts of Heavy Loads Associated with the Energy Sector on Low-Volume Roads**

Jolanda P. Prozzi, TTI

Presiding

*Assessment of Pavement Impacts due to Energy Developments in Texas*

Cesar Quiroga, TTI

Presenter

**Session**

**Session Title**

**Jan 13 - Sunday**

**1:30PM - 4:30PM**

*Panel Discussion*

Cesar Quiroga, TTI

Presenter

**Workshop 149 Analysis, Modeling, and Simulation in Support of Real-Time Operations and Management**

*ICM Dallas Project*

Christopher M. Poe, TTI

Presenter

**2:30PM - 7:00PM**

**Shoreham - Regency Ballroom**

**Welcome Session**

**New Attendees Welcome Session**

*Getting Involved in TRB*

Katherine F. Turnbull, TTI

Presenter

**6:00PM - 7:00PM**

**Marriott - McKinley**

**Meeting**

**Operations and Preservation, and Safety and Systems**

**Paul J. Carlson, TTI**

**Presiding**

**Jan 14 - Monday**

**8:00AM - 9:45AM**

**Hilton - Columbia Hall 8**

**Lectern Session 223 Advances in Travel Survey Methods**

*Methodology to Gather Multimodal Trip Generation Data in Smart-Growth Areas*

Benjamin R. Sperry, TTI

Presenter

**Lectern Session 231 Network Modeling Applications and Origin-Destination Estimation**

*Development and Calibration of Long-Distance Passenger Traffic Assignment Model*

Wen Wang, TAMU

Presenter

Bruce Wang, TAMU

Presenter

**Marriott - Virginia C**

**Lectern Session 212 Pavement Preservation Practices, Treatments, and Performance**

*Evaluating Worst-First and Benefit-Cost Analysis Approaches for Prioritizing Infrastructure Maintenance and Rehabilitation Activities*

Jose Rafael Menendez, TAMU

Presenter

Salar Zabihi, TAMU

Presenter

Jan 14 - Monday

8:00AM - 9:45AM

*Evaluating Worst-First and Benefit-Cost Analysis Approaches for Prioritizing Infrastructure Maintenance and Rehabilitation Activities*

Paul John Ross Narciso, TTI      Presenter

Nasir G. Gharaibeh, TAMU      Presenter

*Survival Analysis of Thin Overlay and Chip Seal Treatments Using Long-Term Pavement Performance Data*

Litao Liu, TAMU      Presenter

Nasir G. Gharaibeh, TAMU      Presenter

**Lectern Session 217 Seeking Solutions to Marine Environmental Challenges***Marine Highway Transport of Toxic Inhalation Hazard Materials*

Annie Protopapas, TTI      Presenter

Carl James Kruse, TTI      Presenter

Leslie Olson, TTI      Presenter

8:30AM - 10:15AM

Marriott - Salon 2

**Poster Session 236 Concrete Pavement: Slab-Base Friction, Joint Load Transfer, and DARWin-ME Climate Data***Modeling and Calibration of Concrete Slab Interfacial Effects*

Muhammad Ehsanul Bari, TTI      Presenter

Dan G. Zollinger, TAMU      Presenter

**Poster Session 238 Construction Management: Selected Research Topics***Highway Construction and Performance-Based Contracting*

Meena Nageeb, TAMU      Presenter

Ivan D. Damnjanovic, TAMU      Presenter

Stuart Anderson, TAMU      Presenter

**Poster Session 239 Flexible Pavements: Perpetual Pavements, MEPDG, Material Properties, and More***Evaluation of Long-Lasting Perpetual Asphalt Pavement Using Life-Cycle Cost Analysis*

Maryam Sakhaeifar, TAMU      Presenter

Shoreham - Blue Room Foyer

**Poster Session 248 Current Research in Freight Transportation and Logistics Planning and Operations**

Kai Yin, TAMU

Presiding

*Incorporating Urban Area Truck Freight Value into Texas A&M Transportation Institute's Urban Mobility Report*

William L. Eisele, TTI      Presenter

David Lynn Schrank, TTI      Presenter

Jan 14 - Monday

8:30AM - 10:15AM

*Incorporating Urban Area Truck Freight Value into Texas A&M Transportation Institute's Urban Mobility Report*

Gregory Larson, TTI

Presenter

10:15AM - 12:00PM

Hilton - Columbia Hall 5

Lectern Session 278 **Mobility Analysis and Sustainable Cities in the Developing World***Quality Control of Toll Data for Mobility Performance Measures on Jingshen Expressway in China*

Tongbin Teresa Qu, TTI

Presenter

Marriott - Virginia B

Lectern Session 260 **Pavement Condition Evaluation: What's Below the Surface?***Development and Initial Testing of Total Pavement Acceptance Device*

Tom Scullion, TTI

Presenter

Wenting Liu, TTI

Presenter

Shoreham - Capitol

Subcommittee

**Freight Modeling Subcommittee**

Bruce Wang, TAMU

Presiding

Lectern Session 264 **Best Management Practices for Asset Management of Ports, Airports, and Related Infrastructure***Budget Allocation for Dredging Project Selection to Maximize Waterway System Capacity Improvement*

Bruce Wang, TAMU

Presenter

Mohammadadel Khodakarami,  
TAMU

Presenter

Lectern Session 268 **Modeling Theories and Practices in Freight Planning and Logistics, Part 1 (Part 2, Session 321)**

Bruce Wang, TAMU

Presiding

Lectern Session 269 **Nondestructive Evaluation of Transportation Structures***Concrete Tunnel Lining Evaluation Using Nondestructive Techniques: Multimethod Case Study at Eisenhower Tunnel, Colorado*

Joshua White, TAMU

Presenter

Stefan Hurlebaus, TAMU

Presenter

Andrew Wimsatt, TAMU

Presenter

Lectern Session 271 **Truck Size and Weight Enforcement***Impacts of Route Restrictions on the Movement of Oversize and Overweight Loads*

Jan 14 - Monday

10:15AM - 12:00PM

*Impacts of Route Restrictions on the Movement of Oversize and Overweight Loads*

Dan Middleton, TTI	Presenter
Yingfeng Li, TTI	Presenter

10:45AM - 12:30PM

## Hilton - International Center

## Poster Session 294 Congestion Pricing, Parking Pricing, and Managed Lanes Showcase

*Distance-Based Charging in the New Transportation Ecosystem*

Richard Tremain Baker, TTI	Presenter
Ginger D. Goodin, TTI	Presenter

*Enforcement Evaluation of I-10 Katy Freeway Managed Lanes*

Nicholas S. Wood, TTI	Presenter
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*I-35W South Mnpass High-Occupancy-Toll Lanes*

Katherine F. Turnbull, TTI	Presenter
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*Short-Run Impact of Gas Price Fluctuations on Toll Road Use*

Chao Huang, TTI	Presenter
Mark W. Burris, TAMU	Presenter

## Poster Session 296 Revenue and Finance Showcase

*Feedback Loop Dynamics in Financial Stress Testing of Toll Road Projects*

David Ford, TAMU	Presenter
Ivan D. Damnjanovic, TAMU	Presenter

*Performance-Based Framework to Include Air Quality in Mileage-Based User Fees: Framework Structure*

Mohamadreza Farzaneh, TTI	Presenter
Richard Tremain Baker, TTI	Presenter
Mark W. Burris, TAMU	Presenter

## Poster Session 298 Transportation Economics

Mark W. Burris, TAMU Presiding

## Marriott - Salon

## Poster Session 289 Highway Safety Performance

*Influence of Land Use and Driveway Placement on Safety Performance of Arterial Highways*

Raul E. Avelar, TTI	Presenter
Karen K. Dixon, TTI	Presenter

Jan 14 - Monday

10:45AM - 12:30PM

*Severity Distribution Function For Freeway Segments*

Srinivas Geedipally, TTI	Presenter
Michael Paul Pratt, TTI	Presenter
Dominique Lord, TAMU	Presenter

**Poster Session 292 Pavement Materials and the Urban Climate: Another Step Forward***Durability Quantification for TiO2 Photocatalytic Concrete and Asphalt Pavements*

Somayeh Asadi, TAMU, Kingsville	Presenter
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*Using Artificial Intelligence Models to Evaluate Field Performance of Photocatalytic Asphalt Pavement for Ambient Air Purification*

Somayeh Asadi, TAMU, Kingsville	Presenter
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1:30PM - 3:15PM

Hilton - Columbia Hall 6

**Lectern Session 332 Trends in U.S. Transportation Systems: Freight**

Katherine F. Turnbull, TTI Presiding

**Lectern Session 333 Tribal Transportation Research***Sign Retroreflectivity Maintenance Program for Tribal Communities*

Vichika Iragavarapu, TTI	Presenter
Paul J. Carlson, TTI	Presenter

Marriott - Park Tower Suite 8222

**Subcommittee Freeway Safety and Operations Subcommittee**

Christopher M. Poe, TTI Presiding

**Lectern Session 302 Ensuring Data Quality: What Are the Pitfalls and How Can We Overcome Them?**

ifford H. Spiegelman, TAM Presiding

*What Are Quality Data?*

Clifford H. Spiegelman, TAMU	Presenter
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**Lectern Session 312 Vehicle Forward Lighting: Applications and Innovations***Applying Sign Luminance Computation Model to Study Effects of Other Vehicles on Sign Luminance*

Fan Ye, TTI	Presenter
Paul J. Carlson, TTI	Presenter
Bradford Brimley, TTI	Presenter

Session

Session Title

Jan 14 - Monday

1:30PM - 3:15PM

Shoreham - Senate

Committee

Marine Environmental Committee

Carl James Kruse, TTI Presiding

Lectern Session 320 Intercity Passenger Rail: Forecasting Its Role, Understanding Its Impacts

*Development of A Multi-Criteria Decision Method for High-Speed Rail Corridor Evaluation*

Benjamin R. Sperry, TTI Presenter

1:30PM - 5:30PM

Marriott - Washington B5

Committee

Pavement Preservation Committee

Roger E. Smith, TAMU Presiding

*Benefits of Subsurface Utility Engineering Services in Transportation Projects*

Yingfeng Li, TTI Presenter

Edgar Kraus, TTI Presenter

Cesar Quiroga, TTI Presenter

2:00PM - 3:45PM

Hilton - International Center

Poster Session 354 Ongoing Research in Paratransit Modeling

Luca Quadrifoglio, TAMU Presiding

*Binational Contexts: Social and Economic Consequences of Border Delays*

*Modeling Spatial Effects on Demand Estimation of ADA Paratransit Services*

Pei-Fen Kuo, TAMU Presenter

Chung-Wei Shen, TAMU Presenter

Luca Quadrifoglio, TAMU Presenter

Poster Session 355 Performance Measurement

*Addressing Sustainability and Strategic Planning Goals Through Performance Measures: Study of Bus Rapid Transit Systems in El Pa*

Tara Ramani, TTI Presenter

Josias Zietsman, TTI Presenter

*Creating a New Method to Identify the Worst Bottlenecks in Texas*

David Lynn Schrank, TTI Presenter

Timothy J. Lomax, TTI Presenter



Jan 14 - Monday

2:00PM - 3:45PM

**Poster Session 356 Socioeconomic Tools and Measures to Improve Outcomes of Transportation Investments to Communities***Binational Contexts: Social and Economic Consequences of Border Delays*

Sharada R. Vadali, TTI

Presenter

**Marriott - Salon 2****Poster Session 336 Current Topics in Traffic Control Devices***Driving Simulator Study of Signing for Complex Interchanges*

Kay Fitzpatrick, TTI

Presenter

Alicia A. Nelson, TTI

Presenter

Vichika Iragavarapu, TTI

Presenter

*Evaluation of Lighted Pavement Marking System for Lane Delineation*

Roma Garg Stevens, TTI

Presenter

Jonathan Tydlacka, TTI

Presenter

Anthony Voigt, TTI

Presenter

*Modeling Pedestrian Delay at High-Intensity Activated Crosswalk with Generalized Linear Models*

Yunlong Zhang, TAMU

Presenter

**Poster Session 339 Modeling Work Zone Safety and Operations**

Gerald L. Ullman, TTI

Presiding

*Enhancing Work Zone Travel Time Estimation Using Smart Work Zone Data*

Praprut Songchitruksa, TTI

Presenter

Dan Middleton, TTI

Presenter

*Simulation-Based Evaluation of Dynamic Queue Warning System Performance*

Geza Pesti, TTI

Presenter

Chi-Leung Chu, TTI

Presenter

Hassan Charara, TTI

Presenter

Gerald L. Ullman, TTI

Presenter

Kevin N. Balke, TTI

Presenter

**Poster Session 351 Health Analysis Applied to Transportation***Integrated Analysis of Workers' Physically Active Activity and Active Travel Choice Behavior*

Ipek Nese Sener, TTI

Presenter

**Shoreham - Blue Room Foyer****Poster Session 344 Maritime Infrastructure: Funding, Performance, and Economic Impacts**

Jan 14 - Monday

2:00PM - 3:45PM

*Cruise Line Revenue Management at Disney World*

Qing Miao, TAMU	Presenter
Bruce Wang, TAMU	Presenter

*Measuring the Direct Economic Effects of Reduced Depth from a Lack of Maintenance Dredging of Ship Channels*

Carl James Kruse, TTI	Presenter
Annie Protopapas, TTI	Presenter

**Poster Session 345 Recent Research on Inland Waterways Transportation***Modal Comparison of Domestic Freight Transportation Effects on the General Public*

Annie Protopapas, TTI	Presenter
Carl James Kruse, TTI	Presenter
Leslie Olson, TTI	Presenter

3:45PM - 5:30PM

Hilton - Columbia Hall 9

**Poster Session 393 Network Models for Transit and Facility Location***U.S. Postal Airmail Routing Optimization*

Bruce Wang, TAMU	Presenter
Qing Miao, TAMU	Presenter

Marriott - Virginia C

**Poster Session 371 Roadway Illumination Systems: Meeting Drivers' Visual Needs***Analyzing Nighttime Visibility of In-Service Pavement Markings*

Fan Ye, TTI	Presenter
Paul J. Carlson, TTI	Presenter
Jeffrey David Miles, TTI	Presenter

Shoreham - Ambassador

**Lectern Session 384 Tire-Pavement Friction***Comparative Evaluation of Locked-Wheel and Fixed-Slip Skid Systems*

Emmanuel G. Fernando, TTI	Presenter
Richard Zimmer, TTI	Presenter

4:15PM - 6:00PM

Hilton - International Center

**Poster Session 401 Field Monitoring and Maintenance of Highway Bridge**

Jan 14 - Monday

4:15PM - 6:00PM

*Analysis of Texas Superheavy Load Criteria for Bridges*

Byungik Chang, West TAMU      Presenter

Hao Zou, West TAMU      Presenter

**Poster Session 420 SHRP 2 Capacity and Reliability: Works in Progress***Traveler Information and Travel Time Reliability*

Beverly T. Kuhn, TTI      Presenter

**Poster Session 423 Transportation Data Applications***Innovations in the Use of Utility Conflict Matrices to Optimize Project Development and Delivery*

Edgar Kraus, TTI      Presenter

Cesar Quiroga, TTI      Presenter

Marriott - Salon 2

**Poster Session 397 Best of the Fourth Urban Street Symposium***Before-and-After Study of Effectiveness of Rectangular Rapid-Flashing Beacons Used with School Sign in Garland, Texas*

Marcus A. Brewer, TTI      Presenter

Kay Fitzpatrick, TTI      Presenter

**Poster Session 400 Driver and Worker Behavior in Work Zones**

Gerald L. Ullman, TTI      Presiding

*Motorists Understanding of Automated Flagger Assistance Devices in Work Zones*

Nada Trout, TTI      Presenter

Melisa Dayle Finley, TTI      Presenter

Brooke R. Ullman, TTI      Presenter

Shoreham - Blue Room Foyer

**Poster Session 407 Current Research in Urban Freight Transportation***Estimating Urban Freight Congestion Costs: Methodologies, Measures, and Applications*

William L. Eisele, TTI      Presenter

David Lynn Schrank, TTI      Presenter

Timothy J. Lomax, TTI      Presenter

6:00PM - 7:15PM

Marriott - Salon 1

Awards

**Thomas B. Deen Distinguished Lecture and Presentation**

Session

Session Title

Jan 14 - Monday

6:00PM - 7:15PM

Katherine F. Turnbull, TTI Presenter

7:30PM - 9:30PM

Marriott - Thurgood Marshall North

Lectern Session 429 Communicating Through Traffic Control Devices

Developing Long-Range Vision and Strategic Plan for the Future of the Manual on Uniform Traffic Control Devices

H. Gene Hawkins, TAMU Presenter

Possible Expectancy Violations on Frontage Roads and Conventional Roads at Interchanges and Lane Assignment Traffic Control De

Alicia A. Nelson, TTI Presenter

Jonathan Tydlacka, TTI Presenter

Anthony Voigt, TTI Presenter

Lectern Session 434 Intelligent Transportation Systems in Practice: Present Experience and Future Outlook

State of the Practice on Use of Intelligent Transportation Systems at U.S.-Mexico Land Border Crossings

Rajat Rajbhandari, TAMU Presenter

Juan Carlos Villa, TTI Presenter

Roberto Macias, TTI Presenter

Shoreham - Empire

Lectern Session 440 New W-Beam Guardrail Designs

MASH TI-2 Guardrail-to-Bridge-Rail Transition Compatible with 31-in. Guardrail

Roger P. Bligh, TTI Presenter

Dusty Arrington, TTI Presenter

New MASH-Compliant Guardrail System for Placement on Slope

Akram Abu-Odeh, TTI Presenter

Jan 15 - Tuesday

8:00AM - 12:00PM

Hilton - Columbia Hall 11 & 12

Committee Transportation Economics Committee

Mark W. Burris, TAMU Presiding

Lectern Session 493 Dwight David Eisenhower Transportation Fellowship Program Research Showcase

Understanding Perception-Reaction Time and Associated Driver Behavior on Urban Roadways through Stimulation

**Jan 15 - Tuesday**

**8:00AM - 12:00PM**

*Understanding Perception-Reaction Time and Associated Driver Behavior on Urban Roadways through Stimulation*

Brown, Lacy, TAMU

Presenter

**Marriott - Washington B5**

Committee

**Pedestrians Committee**

**Shawn M. Turner, TTI Presiding**

**8:00AM - 9:45AM**

**Marriott - Virginia B**

**Lectern Session 461 Advances in Composite Technology Around the World, Part 3 (Part 1, Session 300; Part 2, Session 426)**

*Comparative Experimental Performance of Bridge Deck Slabs with AFRP and Steel Prestressed Precast Panels*

Shobeir Pirayeh Gar, TAMU

Presenter

Stefan Hurlebaus, TAMU

Presenter

John Mander, TAMU

Presenter

**Lectern Session 467 Moisture Damage Characterization of Asphalt Mixtures**

*Continuum-Coupled Moisture-Mechanical Damage Model for Asphalt Concrete*

Maryam Shakiba, TAMU

Presenter

Rashid K. Abu Al-Rub, TAMU

Presenter

Masoud K. Darabi, TTI

Presenter

Taesun You, TAMU

Presenter

Eyad A. Masad, TAMU

Presenter

Dallas N. Little, TTI

Presenter

**Shoreham - Regency Ballroom**

**Lectern Session 479 On the Ground Managing Pavements: State of the Practice and Agency Experience**

*Current Practices for Prioritization of Rehabilitation and Preventive Maintenance of Pavement Projects in Texas*

Paul E. Krugler, TAMU

Presenter

Thomas Freeman, TTI

Presenter

**8:30AM - 10:15AM**

**Hilton - International Center**

**Poster Session 503 Current Issues in Transportation Energy, Alternative Fuels, and Climate Change**

**Jan 15 - Tuesday**

**8:30AM - 10:15AM**

*Impacts of Energy Developments on Highway Systems*

Cesar Quiroga, TTI                      Presenter

Emmanuel G. Fernando, TTI              Presenter

**Poster Session 505 Innovations in Public Involvement**

*I-35 Mobility Coordination Project of Texas Department of Transportation, Waco, Texas*

Christopher M. Poe, TTI                      Presenter

**9:45AM - 9:55AM**

**Hilton - Monroe**

**Committee Repo Urban Transportation Data and Information Systems**

*The Future of National Household Travel Data: Getting Feedback from the User Community*

Stacy Bricka, TTI                              Presenter

**10:15AM - 12:00PM**

**Hilton - Piscataway**

**Subcommittee LIST Transportation Research Thesaurus Subcommittee**

Sandra L. Tucker, TAMU    Presiding

**Lectern Session 530 Artificial Intelligence Tools for Using Publicly Available Transportation Data Sets**

Yunlong Zhang, TAMU    Presiding

**Lectern Session 534 Energy Developments and the Transportation System: Current and Future Challenges, Research Needs, and Opportunities**

*Spatial Approach for Assessing Energy-Related Impacts on Transportation Systems*

Yingfeng Li, TTI                              Presenter

Cesar Quiroga, TTI                              Presenter

Edgar Kraus, TTI                              Presenter

**Marriott - Park Tower Suite 8206**

**Subcommittee High-Speed Roadways Subcommittee**

Karen K. Dixon, TTI              Presiding

**Lectern Session 517 Measurement and Prediction of Asphalt Pavement Surface Characteristics**

*Development of Predictive Model for Skid Loss of Asphalt Pavements*

Jan 15 - Tuesday

10:15AM - 12:00PM

*Development of Predictive Model for Skid Loss of Asphalt Pavements*

Emad Kassem, TTI	Presenter
Ahmed Awed, TAMU	Presenter
Eyad A. Masad, TAMU	Presenter
Dallas N. Little, TTI	Presenter

## Shoreham - Ambassado

Lectern Session 524 Crash Test Criteria

Roger P. Bligh, TTI

Presiding

*Retrofit Bridge Rail Design and Testing for Historic Texas Steel Truss Bridge*

William Williams, TTI	Presenter
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10:45AM - 12:30PM

## Hilton - International Center

Poster Session 557 Current Issues in Transportation and the Environment

*Environmentally Conscious Highway Design for Vertical Grades*

Myunghoon Ko, TTI	Presenter
Dominique Lord, TAMU	Presenter
Josias Zietsman, TTI	Presenter

*Evaluation of CO and NOx Emissions from MOVES and MOBILE6.2 in Southeast Texas Using Source-Oriented CMAQ Model*

Sri Harsha Kota, TAMU	Presenter
Qi Ying, TAMU	Presenter
Hongliang Zhang, TAMU	Presenter
Gunnar W. Schade, TAMU	Presenter

*Spatial Transferability Analysis of the Regional Automobile-Specific Household-Level Carbon Dioxide (CO2) Emissions Models*

Judy A. Perkins, P V A&M	Presenter
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## Marriott - Salon 2

Poster Session 541 Advances in Signal Timing

*Probability Model for Understanding Effect of Detector Delay on Right-Turn-on-Red Traffic*

Xiaosi Zeng, TAMU	Presenter
Yunlong Zhang, TAMU	Presenter
Praprut Songchitrukka, TTI	Presenter

Poster Session 546 New Developments in User Information

Jan 15 - Tuesday

10:45AM - 12:30PM

*Univariate Volatility-Based Models for Improving Quality of Travel Time Reliability Forecasting*

Ranye Sun, TAMU                      Presenter

Xiaosi Zeng, TAMU                      Presenter

**Poster Session 547 Simulation and Measurement of Driver Performance***Evaluation and Development of Vehicle-Type-Specific Acceleration Models*

Caoyi Gu, TAMU                      Presenter

Yunlong Zhang, TAMU                      Presenter

**Poster Session 549 Transportation Visualization***Multiresolution Visualization Tools to Aid in Conducting Road Safety Audits*

Jeffrey A. Shelton, TTI                      Presenter

Gabriel A. Valdez Cenicerros, TTI                      Presenter

**Poster Session 550 Visibility and Visual Information for Roadways***Assessment of Background Complexity of Overhead Guide Signs from Nighttime Digital Images of Roadway Scenes by Image Proces*

Hancheng Ge, TAMU                      Presenter

Yunlong Zhang, TAMU                      Presenter

Jeffrey David Miles, TTI                      Presenter

Paul J. Carlson, TTI                      Presenter

**Shoreham - Blue Room Foyer****Poster Session 552 Pavement Smoothness and Friction#***Performance Evaluation of Permeable Friction Courses in Texas*

Edith Arambula, TTI                      Presenter

Lorena Garcia Cucalon, TTI                      Presenter

Divya Valluri, TTI                      Presenter

Amy Epps Martin, TAMU                      Presenter

Cindy K. Estakhri, TTI                      Presenter

**Poster Session 555 Sustainable Solutions for the Rehabilitation of Asphalt Pavements***Premature Cracking in Foamed Asphalt Pavement: Peru-Brazil Highway Case Study*

Jose Rafael Menendez, TAMU                      Presenter

1:30PM - 3:15PM

**Hilton - International West****Lectern Session 587 Keys to Deploying Research Results**

Katherine F. Turnbull, TTI Presiding



Jan 15 - Tuesday

1:30PM - 3:15PM

**Lectern Session 589 Sixth Annual Competition and Call for Communicating Concepts with John and Jane Q. Public: Transportation Finance and Related Policy Solutions***Honorable Mention - Communicating Long Term Transportation Funding Issues*

Richard Tremain Baker, TTI      Presenter

Marriott - Washington B5

Committee      **Operational Effects of Geometrics Committee**

Kay Fitzpatrick, TTI      Presiding

*Nondestructive Evaluation Of Concrete Linings At Hanging Lake Tunnel*

Stefan Hurlebaus, TAMU      Presenter

**Lectern Session 572 Traffic Law Enforcement Applications to Enhance Officer Safety, Efficiency, and Highway Safety***Effectiveness and Site Selection Criteria of Red-Light-Running Camera Systems*

Myunghoon Ko, TTI      Presenter

Srinivas Geedipally, TTI      Presenter

Troy Duane Walden, TTI      Presenter

**Lectern Session 573 Work Zone Intelligent Transportation Systems: Where Are We Now?***Construction Traveler Information Systems for I-35 Widening in Central Texas*

Robert E Brydia, TTI      Presenter

Christopher M. Poe, TTI      Co-author

Anthony Voigt, TTI      Co-author

Gerald L. Ullman, TTI      Co-author

1:30PM - 3:15PM

Marriott - Balcony B

Committee      **Tunnels and Underground Structures Committee***Nondestructive Evaluation Of Concrete Linings At Hanging Lake Tunnel*

Joshua White, TAMU      Presenter

Andrew Wimsatt, TAMU      Presenter

2:00PM - 3:45PM

Hilton - International Center

Jan 15 - Tuesday

2:00PM - 3:45PM

**Poster Session 609 Applications of Artificial Intelligence in Transportation***Forecasting of Short-Term Urban Rail Transit Passenger Flow with Support Vector Machine Hybrid Online Model*

Yunlong Zhang, TAMU

Presenter

**Poster Session 611 Applying New Methodologies and Practices to Decision-Making Challenges***Development of an Asset Management Screening Tool*

LuAnn Theiss, TTI

Presenter

Beverly T. Kuhn, TTI

Presenter

Yonggao Yang, P V A&amp;M

Presenter

Judy A. Perkins, P V A&amp;M

Presenter

**Poster Session 613 Dwight David Eisenhower Transportation Fellowship Program, Part 1 (Part 2, Session 663)***Fiber-Reinforced Polymers Exposed to Elevated Temperatures for Infrastructure Applications: Examination of Durability*

Evelio Siller, TAMU, Kingsville

Presenter

**Poster Session 615 Innovations in Travel Surveys***Examining Differences Between Travelers' Revealed Versus Actual Travel Time Savings*

Prem Chand Devarasetty, TAMU

Presenter

Mark W. Burris, TAMU

Presenter

Chao Huang, TTI

Presenter

**Marriott - Salon 2****Poster Session 596 Asphalt Additives and Processes Affecting Its Workability and Performance: Traditional and Nontraditional***Recycled Asphalt Shingle Binder Characterization and Blending with Virgin Binders*

Fujie Zhou, TTI

Presenter

Hongsheng Li, TTI

Presenter

Tom Scullion, TTI

Presenter

**Poster Session 599 Characterization and Modeling of Asphalt Mixtures, Part 1 (Part 2, Session 653)***Characterization of Hot-Mix Asphalt Permanent Deformation: Flow Number Test and Fn Index Concept*

Lubinda F. Walubita, TTI

Presenter

Jun Zhang, TTI

Presenter

Tom Scullion, TTI

Presenter

*Constitutive Modeling of Cyclic Viscoplastic Response of Asphalt Concrete*

Masoud K. Darabi, TTI

Presenter

Rashid K. Abu Al-Rub, TAMU

Presenter

Jan 15 - Tuesday

2:00PM - 3:45PM

*Constitutive Modeling of Cyclic Viscoplastic Response of Asphalt Concrete*

Eyad A. Masad, TAMU	Presenter
Dallas N. Little, TTI	Presenter

*Effect of Confinement Pressure on the Nonlinear-Viscoelastic Response of Asphalt Concrete at High Temperatures*

Eisa Rahmani, TAMU	Presenter
Rashid K. Abu Al-Rub, TAMU	Presenter
Masoud K. Darabi, TTI	Presenter
Emad Kassem, TTI	Presenter
Eyad A. Masad, TAMU	Presenter
Dallas N. Little, TTI	Presenter

*Mechanistic Modeling of Fracture in Asphalt Mixtures Under Compressive Loading*

Yuqing Zhang, TAMU	Presenter
Rong Luo, TTI	Presenter
Robert Leonard Lytton, TAMU	Presenter

*Modeling Water Vapor Diffusion in Pavement and Its Influence on Fatigue Crack Growth of Fine Aggregate Mixture*

yunwei tong, TAMU	Presenter
Rong Luo, TTI	Presenter
Robert Leonard Lytton, TAMU	Presenter

*X-Ray CT-Based Three-Dimensional Microstructural Modeling of Asphalt Concrete*

Taesun You, TAMU	Presenter
Rashid K. Abu Al-Rub, TAMU	Presenter
Eyad A. Masad, TAMU	Presenter
Dallas N. Little, TTI	Presenter

**Poster Session 604 Test Methods, Modeling, and Applications of New Tools to Characterize and Predict Binder Properties***Obtaining Nanorheology of Asphalt Binders Using Atomic Force Microscope and Modified Fischer-Cripps Solution*

Rezwan Jahangir, TAMU	Presenter
R. Grover Allen, TAMU	Presenter
Dallas N. Little, TTI	Presenter

*Structural Characterization of Micromechanical Properties in Asphalt Using Atomic Force Microscopy*

R. Grover Allen, TAMU	Presenter
Dallas N. Little, TTI	Presenter

**Poster Session 606 TRB's IDEA Programs: Sponsoring Innovation in Transportation***Determination of the Longitudinal Stress in Rails, Safety IDEA Project 15*

**Jan 15 - Tuesday**

**2:00PM - 3:45PM**

*Determination of the Longitudinal Stress in Rails, Safety IDEA Project 15*

Stefan Hurlebaus, TAMU                      Presenter

**Shoreham - Blue Room Foyer**

**Poster Session 608 Current Issues in Aviation**

*Productivity Performance of U.S. Passenger Airlines Since Deregulation*

Judy A. Perkins, P V A&M                      Presenter

**3:45PM - 5:30PM**

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**Subcommittee Household Travel Surveys Subcommittee**                      Stacey Bricka, TTI                      Presiding

Stacey Bricka, TTI                      Presiding`

**Hilton - International East**

**Lectern Session 640 Bicycle and Pedestrian Counting Data and Collection Methods**

*Quality Counts for Pedestrians and Bicyclists: Quality Assurance Procedures for Nonmotorized Traffic Count Data*

Shawn M. Turner, TTI                      Presenter

Philip H. Lasley, TTI                      Presenter

**Lectern Session 647 Research on Transportation Planning in Small and Medium-Sized Communities**

*Examining Attitudes and Valuation of High-Speed Rail Travel Among Residents of Small and Medium-Sized Communities*

Benjamin R. Sperry, TTI                      Presenter

Mark W. Burris, TAMU                      Presenter

Kyle M. Woosnam, TAMU                      Presenter

**Marriott - Thurgood Marshall North**

**Lectern Session 625 Recent Work Zone Safety and Mobility Research**

*Field Evaluation of Automated Flagger Assistance Devices in Work Zones on Two-Lane Roads*

Melisa Dayle Finley, TTI                      Presenter

**Shoreham - Ambassador**

**Lectern Session 631 Roadway Departure Crashes and Countermeasures**

*New Run-off-Road Crash Prediction Models for the Highway Safety Manual*

Karen K. Dixon, TTI                      Presenter

**4:15PM - 6:00PM**

Jan 15 - Tuesday

4:15PM - 6:00PM

## Hilton - International Center

Poster Session 663 **Dwight David Eisenhower Transportation Fellowship Program, Part 2 (Part 1, Session 613)***Nanotechnology in Concrete: How Sustainable Is This New Technology?*

La Sasha Walker, P V A & M	Presenter
Steven Lewis, P V A&M	Presenter

## Marriott - Salon 2

Poster Session 653 **Characterization and Modeling of Asphalt Mixtures: Part 2 (Part 1, Session 599)***Constitutive Modeling of Fatigue Damage Response of Asphalt Concrete Materials*

Masoud K. Darabi, TTI	Presenter
Rashid K. Abu Al-Rub, TAMU	Presenter
Eyad A. Masad, TAMU	Presenter
Dallas N. Little, TTI	Presenter

*Fracture Energy Index Concept: Comparing Monotonic Loading Hot-Mix Asphalt Crack Tests*

Abu Nayeem Md. Faruk, TTI	Presenter
Lubinda F. Walubita, TTI	Presenter
Tom Scullion, TTI	Presenter

*Laboratory HMA Cracking Testing: Evaluation of Three Repeated Loading Crack Tests*

Lubinda F. Walubita, TTI	Presenter
Abu Nayeem Md. Faruk, TTI	Presenter
Tom Scullion, TTI	Presenter

*Modified Paris' Law to Predict Entire Crack Growth in Asphalt Mixtures*

Xue Luo, TTI	Presenter
Rong Luo, TTI	Presenter
Robert Leonard Lytton, TAMU	Presenter

Poster Session 654 **Emulsified Asphalts: Tests, Properties, Performance, and Field Applications***Revision and Further Validation of Surface-Performance Graded Specification for Surface Treatment Binders*

Aishwarya Vijaykumar, TAMU	Presenter
Amy Epps Martin, TAMU	Presenter
Edith Arambula, TTI	Presenter

Poster Session 657 **Rutting and Thermal Segregation of Hot-Mix Asphalt***Creep and Repeated Creep-Recovery as Rutting Performance Tests for Airport Hot-Mix Asphalt Mix Design*

Dallas N. Little, TTI	Presenter
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Jan 15 - Tuesday

4:15PM - 6:00PM

## Poster Session 658 Statistical Methods Research for Transportation

*Analyzing Different Functional Forms of the Varying Weight Parameter for Finite Mixture of Negative Binomial Regression Models*

Yajie Zou, TAMU	Presenter
Yunlong Zhang, TAMU	Presenter
Dominique Lord, TAMU	Presenter
Yichuan Peng, TAMU	Presenter

*Comparison of Sichel and Negative Binomial Models in Estimating Empirical Bayes Estimates*

Yajie Zou, TAMU	Presenter
Dominique Lord, TAMU	Presenter
Yunlong Zhang, TAMU	Presenter
Yichuan Peng, TAMU	Presenter

*Evaluating Double Poisson Generalized Linear Model*

Srinivas Geedipally, TTI	Presenter
Dominique Lord, TAMU	Presenter

## Shoreham - Blue Room Foyer

## Poster Session 661 Intercity Passenger Rail Issues

*Economic Impacts of Amtrak Intercity Passenger Rail Service in Michigan: Community-Level Analysis*

Benjamin R. Sperry, TTI	Presenter
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5:45PM - 9:30PM

## Marriott - Congressional

Meeting	Construction Section Executive Board <b>**Members Only**</b>	Stuart Anderson, TAMU	Presiding
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7:30PM - 9:30PM

## Hilton - Columbia Hall 9 &amp; 10

Committee	Geographic Information Science and Applications Committee	Cesar Quiroga, TTI	Presiding
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## Lectern Session 684 Experience with University-Based Workforce Development Programs

*Assessment of Introductory Transportation Engineering Course and General Transportation Engineering Curriculum*

H. Gene Hawkins, TAMU	Presenter
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Session

Session Title

Jan 15 - Tuesday

7:30PM - 9:30PM

Lectern Session 685 **Implementing Sustainability in Transportation Agencies** Tara Ramani, TTI Presiding

Marriott - Salon 2

Poster Session 668 **Intelligent Transportation Systems**

*Vehicle-to-Vehicle Connectivity on Two Parallel Roadways with General Headway Distribution*

Kai Yin, TAMU Presenter

Xiubin Bruce Wang, TAMU Presenter

Yunlong Zhang, TAMU Presenter

Poster Session 669 **Pedestrian Design, Safety, and Behavior**

*Effect of Left-Turn Operational Mode on Pedestrian Safety: Development of Models and Guidelines*

Michael Paul Pratt, TTI Presenter

Praprut Songchitrukksa, TTI Presenter

Shoreham - Capitol

Committee **Freight Transportation Planning and Logistics Comm** Kiubin Bruce Wang, TAMU Presiding

Lectern Session 679 **Performance-Based Tools to Assess Geometric Design Decisions**

*Decision Tool to Define and Quantify Interchange Complexity*

Marcus A. Brewer, TTI Presenter

Kay Fitzpatrick, TTI Presenter

Jan 16 - Wednesday

6:30AM - 9:00AM

Marriott - Capitol Boardroom

Meeting **Operations and Preservation Group Executive Board** Paul J. Carlson, TTI Presiding

8:00AM - 12:00PM

Hilton - Gunston

Task Force **Task Force on Understanding New Directions for the National Household Travel Survey Task Force** Stacey Bricka, TTI Presiding

Jan 16 - Wednesday

8:00AM - 12:00PM

## Marriott - Washington B5

Committee **Signing and Marking Materials Committee***Optimization Design and Experiment on Plane Layout of Edge Line Marking for Speed Reduction*

Lingzi Cheng, TAMU

Presenter

8:00AM - 9:45AM

## Hilton - Jefferson East

Lectern Session **718 Knowledge Transfer within Transportation Research Board Standing Committees***Response from TRB Chairs*

Katherine F. Turnbull, TTI

Presenter

## Marriott - Washington B3

Subcommittee **Active Traffic Management Joint Subcommittee of AHB20, AHB35**

Beverly T. Kuhn, TTI

Presiding

Lectern Session **694 Case Studies in Cementitious Stabilization***Stabilizing Sulfate-Rich Soils Using Traditional Stabilizers: Continuing Case Study of State Highway 289 in Grayson County, Texas*

Tom Scullion, TTI

Presenter

Lectern Session **700 Practical Research on Pedestrian and Driver Interactions**

Shawn M. Turner, TTI

Presiding

8:30AM - 10:15AM

## Hilton - International Center

Poster Session **732 Advanced Planning Applications***TourCast: Trade-offs in Activity-Based Model Implementations*

James A. Mullins III, TTI

Presenter

Poster Session **733 Finding Our Way: Modeling Route Choice***Investigating Changes in Willingness to Pay for Managed Lane Systems: Quasi-Panel Approach*

Mark W. Burris, TAMU

Presenter

Prem Chand Devarasetty, TAMU

Presenter

## Shoreham - Blue Room Foyer



Jan 16 - Wednesday

8:30AM - 10:15AM

**Poster Session 727 Innovations in Geometric Design Research***Modeling Operating Speed using Traffic, Posted Speed Limit, and Geometric Characteristics*

Kay Fitzpatrick, TTI                      Presenter

James Robertson, TTI                      Presenter

Eun Sug Park, TTI                              Presenter

Vichika Iragavarapu, TTI                      Presenter

**Poster Session 730 Roadside Barrier Simulation, Testing, and Performance***Crash Wall Design to Protect Mechanically Stabilized Earth Retaining Walls*

Akram Abu-Odeh, TTI                              Presenter

*Design and Full-Scale Testing of Texas Department of Transportation Type T131RC Bridge Rail*

William Williams, TTI                              Presenter

*Development Guidance for Minimum Sign Area for Slipbase Supports*

Chiara Silvestri, TTI                              Presenter

Dusty Arrington, TTI                              Presenter

Roger P. Bligh, TTI                              Presenter

10:15AM - 12:00PM

**Hilton - Georgetown West****Lectern Session 760 Measuring Reliability in the Context of MAP-21***Measuring and Reporting Travel Time Reliability Statistics for the Most Congested Corridors in the United States: Methodology and*

William L. Eisele, TTI                              Presenter

David Lynn Schrank, TTI                              Presenter

Timothy J. Lomax, TTI                              Presenter

**Marriott - Washington B3**

Committee

**Managed Lanes Committee**

Ginger D. Goodin, TTI      Presiding

**Lectern Session 742 Emerging Roadside Barrier Issues Identified by National Transportation Safety Board***Research Aspects of the NTSB Barrier Recommendations*

Roger P. Bligh, TTI                              Presenter

**Shoreham - Hampton****Lectern Session 749 Financing 21st Century International Land Ports of Entry: Doing Things Smarter, Better, Faster**

Juan Carlos Villa, TTI      Presiding

Jan 16 - Wednesday

10:15AM - 12:00PM

2:30PM - 4:00PM

Hilton - Monroe

Committee

Transportation and Sustainability Committee

Josias Zietsman, TTI

Presiding

Lectern Session 793 Innovations in Spatial Analysis Techniques and Applications in Transportation

Cesar Quiroga, TTI

Presiding

Lectern Session 797 Smarter, Better, and Faster in Planning and Operating Rural Public Transportation: National and International Experience

*Connection Between Rural Transit and Rural Livability*

Suzie Edrington, TTI Presenter

Jonathan Paul Brooks, TTI Presenter

*Measuring Transit and Livability in Rural America, Rural Transit Livability Index (RTLII)*

Jonathan Paul Brooks, TTI Presenter

Suzie Edrington, TTI Presenter

Marriott - Thurgood Marshall North

Lectern Session 768 Active Traffic Management: Technology, Data, and Users

Beverly T. Kuhn, TTI

Presiding

*Evaluation of International Applications of ATM Lane Control Signing for Use in the United States*

Melisa Dayle Finley, TTI Presenter

Lectern Session 773 Evaluating Effectiveness of Sealing Portland Cement Concrete Joints

*Evaluation of Joint Sealant Effectiveness on Moisture Infiltration and Erosion Potential in Concrete Pavement*

Keivan Neshvadian Bakhsh, TAMU Presenter

Dan G. Zollinger, TAMU Presenter

Youn-Su Jung, TTI Presenter

Lectern Session 774 Retroreflectivity and Wet Night Visibility of Pavement Markings

*Investigation of Longitudinal Pavement Marking Retroreflectivity and Safety*

Paul J. Carlson, TTI Presenter

Jan 16 - Wednesday

2:30PM - 4:00PM

*Investigation of Longitudinal Pavement Marking Retroreflectivity and Safety*

Eun Sug Park, TTI	Presenter
Dong Hun Kang, TTI	Presenter

**Lectern Session 775 Understanding Characteristics of Managed-Lane Users***Can Psychological Traits Help Predict the Use of Managed Lanes?*

Prem Chand Devarasetty, TAMU	Presenter
Mark W. Burris, TAMU	Presenter
Winfred Arthur, TAMU	Presenter
Jennifer McDonald, TAMU	Presenter
Gonzalo Munoz, TAMU	Presenter

*Impacts to Transit from Variably Priced Toll Lanes: Results from U.S. Department of Transportation Urban Partnership Agreements*

Katherine F. Turnbull, TTI	Presenter
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**Lectern Session 799 Evaluating, Improving, and Implementing Innovative Concrete Curing Technologies for Concrete Pavements***Evaluation of Concrete Curing Effectiveness Using Concrete Abrasion Testing in Texas*

Dan G. Zollinger, TAMU	Presenter
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**Shoreham - Ambassador****Lectern Session 780 Advances in Assessing Impact of Data on Pavement Management Decisions***Impact of Error in Pavement Condition Data on Output of Network-Level Pavement Management Systems*

Siamak Saliminejad, TAMU	Presenter
Nasir G. Gharaibeh, TAMU	Presenter

**Lectern Session 781 Application of ITE's Recommended Practice: Designing Walkable Urban Thoroughfares--A Context-Sensitive Approach***Outreach: Case Study and Performance Measurement*

Beverly Storey, TTI	Presenter
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*Panel Discussion*

Beverly Storey, TTI	Presenter
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2:30PM -4:00PM

**Marriott - McKinley**

Subcommittee

Geometric Design Research Subcommittee

Marcus A. Brewer, TTI Presiding

Jan 16 - Wednesday

2:45PM - 4:30PM

Hilton - International Center

Poster Session 800 **Advances in Network Modeling***Development and Calibration of Long-Distance Passenger Traffic Assignment Model (13-4108)*

Wen Wang, TAMU                      Presenter

Bruce Wang, TAMU                      Presenter

*U.S. Postal Airmail Routing Optimization (13-4708)*

Qing Miao, TAMU                      Presenter

Bruce Wang, TAMU                      Presenter

4:30PM - 6:30PM

Hilton - Lincoln West

Lectern Session 815 **E-shopping, Teleworking, and Internet Use During Travel: Some New Results**                      Ipek Nese Sener, TTI      Presiding

Marriott - Thurgood Marshall West

Lectern Session 804 **Managed-Lane Operations**                      Ginger D. Goodin, TTI      PresidingLectern Session 805 **Measuring Retroreflectivity and Performance of Traffic Signs***Current State of Research on the Long-Term Deterioration of Traffic Signs*

Bradford Brimley, TTI                      Presenter

Paul J. Carlson, TTI                      Presenter

*Measurement Bias and Reproducibility of In-Service Sign Retroreflectivity Readings Made with Handheld Instruments*

Bradford Brimley, TTI                      Presenter

Paul J. Carlson, TTI                      Presenter

Fan Ye, TTI                      Presenter

Lectern Session 808 **Pavement Maintenance Patching and Repair Practices***Assessment of Pavement Impacts due to Energy Developments in Texas*

Emmanuel G. Fernando, TTI                      Presenter

Cesar Quiroga, TTI                      Presenter

*Performance of Various Pavement Repairs in Low-Volume Roadways over Expansive Soil*

Sang Ick Lee, TTI                      Presenter

Shoreham - Hampton

Session

Session Title

Jan 16 - Wednesday

4:30PM - 6:30PM

Lectern Session 814 **Tire-Pavement Noise and Quieter Pavements, Part 2 (Part 1, Session 785)**

*Relationship Between Tire-Pavement Interaction Noise and Surface Characteristics in 2009 Pavement Test Track Cycle*

Maryam Sakhaeifar, TAMU      Presenter

7:30PM - 9:30PM

Marriott - Coolidge

Subcommittee **Crash Modification Factors Subcommittee**

Karen K. Dixon, TTI      Presiding

Jan 17 - Thursday

8:00AM - 12:00PM

Marriott - Thurgood Marshall North

Workshop 837 **Progress Toward Performance Grade-Based Emulsified Asphalt Specifications**

*Field Validation of Emulsion Performance Specifications*

Amy Epps Martin, TAMU      Presenter

8:00AM - 9:45AM

Hilton - Jefferson East

Lectern Session 833 **Vehicle Ownership, Usage, and Fuel Use**

*Accommodating Immigration Status and Self-Selection Effects in Joint Model of Household Auto Ownership and Residential Location*

Karen Marie Lorenzini, TTI      Presenter

Marriott - Salon 1

Lectern Session 826 **Assessing Compaction, Volumetrics, and Stiffness for Asphalt Concrete Mixtures**

*Development of Predictive Model for Laboratory Compaction of Asphalt Mixtures*

Ahmed Awed, TAMU      Presenter

Emad Kassem, TTI      Presenter

Eyad A. Masad, TAMU      Presenter

Dallas N. Little, TTI      Presenter