

Over 60 ITS-Davis representatives are participating in the Transportation Research Board's 96th annual meeting January 8 – 12, 2017 in Washington, D.C. Details are listed below.

**COMMITTEE MEETINGS**

**Emerging and Innovative Public Transport and Technologies Committee**

January 9, 2017 8:00 AM-9:45 AM

**ITS-Davis President:** *Caroline Rodier*

**Low-Volume Roads Committee**

January 9, 2017 1:30 PM-5:30 PM

**ITS-Davis President:** *David Jones*

**Freight Surveys Subcommittee, ABJ40(2)**

January 11, 2017 7:00 AM-8:00 AM

**ITS-Davis President:** *Miguel Jaller*

**International Aspects of Transportation Energy Subcommittee, ADC70(1)**

January 11, 2017 8:00 AM-9:45 AM

**ITS-Davis President:** *Lewis Fulton*

**Animal-Vehicle Collisions Subcommittee, ANB20(2)**

January 10, 2017 6:00 PM-7:30 PM

**ITS-Davis President:** *Fraser Shilling*

**Sealants and Fillers for Joints and Cracks Committee**

January 10, 2017 1:30 PM-5:30 PM

**Sealzall - Automated Crack Sealing Machine**

**ITS-Davis Presenter:** *Bahram Ravani*

**JANUARY 8, 2017**

**Workshop 101: The Nexus of Transportation and Environmental Health Governance:  
Intersections and Collisions Across and Within Borders**

9:00 AM-12:00 PM

**ITS-Davis Presenter:** *Daniel Sperling*

**Workshop 116: Social and Economic Factors in Autonomous and Connected Vehicles:  
Current Research, Planning, and Policy Trends**

9:00 AM-12:00 PM

**Mobility Issues in Autonomous and Connected Vehicles**

**ITS-Davis Presenter:** *Regina Clewlow*

**Workshop 117: Life-Cycle-Based Regulatory Reform for Light-Duty Vehicle Sector: New Technologies and Policy Pathways for Deep Decarbonization**

9:00 AM-12:00PM

*Switching to Fuels with Large Upstream Emissions: Choosing a Metric and Method for Vehicle Emissions Regulations*

ITS-Davis Presenter: *Daniel Sperling*

**Workshop 125: Doctoral Student Research in Asphalt Materials and Mixtures**

9:00 AM-12:00PM

*Considering Spatial Variability in Pavement Design*

ITS-Davis Presenter: *Jeremy Lea*

**Workshop 143: The Virtual Automobile: Ubiquitous Traveler Platform**

9:00 AM-12:00 PM

*Panel 1: State of the Practice and What Users Want: The Customer Perspective*

ITS-Davis Presenter: *Regina Clewlow*

*Panel 3: Governance Issues*

ITS-Davis Presenter: *Giovanni Circella*

**Workshop 147: Spatial Analysis**

9:00 AM-12:30PM

*Thesis Experiment Design for Graduate Students*

ITS-Davis Presenter: *Mohamad Zia Alavi*

**JANUARY 9, 2017**

**Session 217: New Developments in Sustainable Low-Volume Road Management**

8:00 AM-9:45 AM

*Development of a Design Procedure for Converting Distressed Paved Roads Back to More Sustainable All-Weather Unpaved Standard*

ITS-Davis Presenter: *David Jones*

**Session 223: Future of Alternative Project Delivery: Pathways and Obstacles**

8:00 AM-9:45 AM

*Collaborative Partnering: Implementation, Impact, and Field Staff Perceptions*

ITS-Davis Presenter: *Aaron Fackler, Debbie Niemeier*

**Session 236: Managed Lanes and Congestion Pricing Analysis, Design, and Operations**

8:00 AM-9:45 AM

*Evaluating Configurations of Managed Lane Access Control Using Multicommodity Link-Node Cell Transmission Model*

ITS-Davis Presenter: *David Jones*

**Session 250: New Tools to Inform Transit Management and Investment Decisions**

8:00 AM-9:45 AM

*Two-Stage Model for Optimizing a Flexible Bus Bridging Strategy During Metro Disruptions*

ITS-Davis Presenter: *H. Zhang*

**Session 276: Everything You Wanted to Know About Parking But Were Afraid to Ask**

10:15 AM-12:00 PM

*Search for Parking: Dynamic Parking and Route Guidance System for Efficient Parking and Traffic Management*

ITS-Davis Presenter: *Huajun Chai, Rui Ma, H. Zhang*

**Session 281: Transport, Safety, Highway, and Public Transport in the Developing Countries**

10:15 AM-12:00 PM

*Evaluating Regional Multimodal Freight Transport Projects Considering Operational and Socioeconomic Benefits*

ITS-Davis Presenter: *Miguel Jaller*

**Session 289: Logistics of Disaster Response**

10:15 AM-12:00 PM

*Forecasting Emergency Supplies and Analysis of the Response Process: Case of 2014 Fire in Valparaíso, Chile*

ITS-Davis Presenter: *Miguel Jaller*

**Session 329: School Transportation Research**

10:15 AM-12:00 PM

*Barcodes, Virtual Money, and Golden Wheels: How Schools in Davis, California, Encourage Bicycling to School*

ITS-Davis Presenter: *Calvin Thigpen, Rachel Hartsough*

**Session 352: Lifecycle Transport Needs**

1:30 PM-3:15 PM

*A Discussion on Equity and New Car Buyers in California*

ITS-Davis Presenter: *Julie Schiffman, Gil Tal, Lewis Fulton*

**Session 357: Innovations in Urban Transportation Data**

1:30 PM-3:15 PM

*Relation Between Parking Garage Occupancy and Traffic Speeds in Cities: Results from Data-Driven Study*

ITS-Davis Presenter: *Rui Ma, Shenyang Chen, H. Zhang*

*Intersection and Stop Bar Position Extraction from Crowdsourced GPS Trajectories*

ITS-Davis Presenter: *Tingxu Lyu*

**Session 365: Mega-regions: How We Are Evolving**

1:30 PM-3:15 PM

*Accounting for Interregional Travel in Regional Land Use and Transportation Plans: Comparison of Attribution Methods*

ITS-Davis Presenter: *Farzad Alemi, Caroline Rodier*

**Session 366: Behavioral Effects of Next-Generation Mobility**

1:30 PM-3:15 PM

*On the Morning Commute Problem with Heterogeneous Dynamic Ridesharing Travelers*

ITS-Davis Presenter: *Rui Ma, H. Zhang*

**Session 374: Pavement Surface Characteristics**

1:30 PM-3:15 PM

*Mean Texture Depth and Deflection Detection and Steering Angle-Based Bike Pavement Condition Assessment*

ITS-Davis Presenter: *Xiaodong Qian, Debbie Niemeier*

**Session 415: Decarbonization: Charting a Path Forward**

3:45 PM-5:30 PM

ITS-Davis Presenter: *Daniel Sperling*

**Session 613: Dwight David Eisenhower Transportation Fellowship Program, Part 1 (Part 2, Session 614)**

1:30 PM-3:15 PM

*Defining Safe Bicycling Environments Through Human Physiology*

ITS-Davis Presenter: *Dillon Fitch*

**January 10, 2017**

**Session 507: Behavioral Processes**

8:00 AM-9:45 AM

*Do Attitudes Cause Behavior or Vice Versa? Results from a Dutch Mobility Panel*

ITS-Davis Presenter: *Susan Handy*

**Session 508: Car Ownership and Shared Mobility**

8:00 AM-9:45 AM

*Californian Millennials Drive Smaller Cars: Estimating Vehicle Type Choice of Millennials*

ITS-Davis Presenter: *Rosaria Berliner, Giovanni Circella*

**Session 510: Behavioral Dimensions of Travel Choice**

8:00 AM-9:45 AM

*Does Telecommuting Reduce Travel? Accounting for Self-selection Using UK National Travel Survey*

ITS-Davis Presenter: *Gouri Shankar Mishra*

**Session 563: Current Issues in Transportation Energy**

10:15 AM-12:00 PM

*Creating a Self-Sustaining Zero-Emission Vehicle Rebate System in California*

ITS-Davis Presenter: *Julie Schiffman, Lewis Fulton, Gil Tal*

**Session 564: Current Issues in Alternative Transportation Fuels and Technologies**

10:15 AM-12:00 PM

*Modeling Choice of Plug-in Electric Vehicle Buyers in California: Nested Logit Approach*

**ITS-Davis Presenter:** *Gil Tal, Yan Xing*

**Session 569: Advances in Pavement Management Systems**

10:15 AM-12:00 PM

*Pavement System Reconstruction and Resurfacing Policies for Minimization of Life-Cycle Costs Under Greenhouse Gas Emissions Constraints*

**ITS-Davis Presenter:** *Darren Reger*

**Session 570: Best Papers from 5th International Conference on Accelerated Pavement Testing**

10:15 AM-12:00 PM

*Calibration of ME Design using a Combination of APT and PMS Data*

**ITS-Davis Presenter:** *Jeremy Lea*

**Session 625: Beyond Vehicle Kilometers Travelled: A Multidisciplinary Perspective on Millennials**

1:30 PM-3:15 PM

*Exploring Millennials' Mobility Styles, Adoption of Shared Mobility and Attitudes Towards Car Ownership in California*

**ITS-Davis Presenter:** *Giovanni Circella*

**Session 627: Economic Development, Accessibility, and Livability: Models and Tools**

3:45 PM-5:30 PM

*PAVEMENT CONDITION AND RESIDENTIAL PROPERTY VALUES: A SPATIAL HEDONIC PRICE MODEL FOR SOLANO COUNTY, CA*

**ITS-Davis Presenter:** *Fraser Shilling*

**Session 629: New Developments in Social and Economic Factors of Transportation**

1:30 PM-3:15 PM

*What Drives Millennials: Comparison of Vehicle Miles Traveled Between Millennials and Generation X in California*

**ITS-Davis Presenter:** *Kate Tiedeman, Giovanni Circella, Farzad Alemi, Rosaria Berliner*

**Session 631: Pavement Structural Modeling and Evaluation**

1:30 PM-3:15 PM

*Stiffness and Strength for Fully Permeable Pavement Materials: Results from Field Characterization*

**ITS-Davis Presenter:** *David Jones, Rongzong Wu, John Harvey*

**Session 635: Rubber-Modified Asphalt Mixtures**

1:30 PM-3:15 PM

*Influence of Reclaimed Asphalt Pavement on Performance-Related Properties of Gap-Graded Rubberized Hot-Mix Asphalt*

**ITS-Davis Presenter:** *Mohamad Zia Alavi, Shawn Hung, David Jones, John Harvey*  
*Performance Characterization of Reacted and Activated Rubber-Modified Dense-Graded Asphalt Mixtures*

**ITS-Davis Presenter:** *Sampat Kedarisetty*

**Session 636: Reclaimed Asphalt Pavement and Recycled Asphalt Shingles in Asphalt Mixtures**

1:30 PM-3:15 PM

*Effects of Rejuvenators on High-RAP Mixtures Based on Laboratory Tests of Asphalt Concrete Mixtures and Fine Aggregate Matrix Mixtures*

**ITS-Davis Presenter:** *Hesamaddin Nabizadeh*

**Session 662: Transit Capacity and Quality of Service**

1:30 PM-3:15 PM

*Bilevel Model for Design of Transit Short-Turning Services Considering Bus Crowding*

**ITS-Davis Presenter:** *H. Zhang*

**Session 663: Timely Topics in Transit Safety and Security**

1:30 PM-3:15 PM

*URT Emergency Facilities Location Problem Model in Consideration of Station Vulnerability*

**ITS-Davis Presenter:** *Shenyang Chen*

**Session 665: New Mobility Services: New Research Evidence**

1:30 PM-3:15 PM

**ITS-Davis President:** *Farzad Alemi*

*Adoption of Shared and Emerging Mobility Services in the United States*

**ITS-Davis Presenter:** *Gouri Shankar Mishra, Regina Clewlow*

**Session 684: We Know There Is a Climate Problem; Why Aren't We Doing Something?**

3:45 PM-5:30 PM

*Allocating State Transportation Funds to Promote Sustainability: The Case of California*

**ITS-Davis Presenter:** *Amy Lee*

**Session 694: Latest Research in Metropolitan Policy, Planning, and Processes**

3:45 PM-5:30 PM

*Repurposing the Paving: Case of Surplus Residential Parking in Davis, California*

**ITS-Davis Presenter:** *Calvin Thigpen, Jamey Volker*

**Session 698: Information and Communications Technologies and New Behavioral Insights**

3:45 PM-5:30 PM

*What Influences Travelers to Use Uber? Exploring the Factors Affecting the Adoption of On-Demand Ride Services*

ITS-Davis Presenter: *Farzad Alemi, Giovanni Circella, Susan Handy*

*Do Multitasking Millennials Value Travel Time Differently? A Revealed Preference Study of Northern California Commuters*

ITS-Davis Presenter: *Giovanni Circella*

**Session 702: Understanding Transportation-Land Use Relationships: Links to Policy**

3:45 PM-5:30 PM

*Transportation Policy at the Ballot Box*

ITS-Davis Presenter: *Kevin Fang, Calvin Thigpen*

**Session 704: Transportation and Sustainability: Highlighted Papers**

3:45 PM-5:30 PM

*Using Onboard Diagnostic and GPS Technology for Pricing of Emissions from On-Road Heavy Duty Vehicle*

ITS-Davis Presenter: *Yizheng Wu, Daniel Sperling*

*Introduction of Chinese Plug-in Electric Vehicle Market and an Exploration of Factors Associated with Choice of Plug-in Electric Vehicle*

ITS-Davis Presenter: *Yan Xing, Gil Tal, Yunshi Wang*

**Session 712: Pavement Condition Evaluation: State of the Art**

3:45 PM-5:30 PM

*Correlating Field and Lab Measurements of Skid Resistance by Skiddometer and Wehner-Schulze Device*

ITS-Davis Presenter: *Bernhard Hofko*

**Session 713: Accelerated Pavement Testing Advancements in Design and Economics**

3:45 PM-5:30 PM

*Development of a Permanent Deformation Model for Unbound Layers Using Accelerated Pavement Testing Data from Airfield Pavements*

ITS-Davis Presenter: *Rongzong Wu, John Harvey, David Jones*

**Session 723: Cracking of Asphalt Mixtures**

3:45 PM-5:30 PM

*Logit Model and Need to Reproduce Stiffness Degradation Curve of Asphalt Specimens During Fatigue Testing*

ITS-Davis Presenter: *Rongzong Wu, John Harvey*

**Session 746: Addressing Concerns About LED Street Lighting**

3:45 PM-5:30 PM

*Management of Outdoor Lighting to Reduce Impacts on Wildlife*

ITS-Davis Presenter: *Fraser Shilling*

**Session 749: Innovative Applications and Evaluations of Ridesharing and Ridesourcing Services**

3:45 PM-5:30 PM

**ITS-Davis Presenter:** *Caroline Rodier*

**Session 754: Current Research in Freight Planning and Logistics**

3:45 PM-5:30 PM

***Spatial Analysis of Warehouses and Distribution Centers in Southern California***

**ITS-Davis Presenter:** *Miguel Jaller, Leticia Pineda Blanco, David Phong*

***Critical Review of the Logistics Performance Index (LPI): A Spatial Regression Analysis***

**ITS-Davis Presenter:** *Miguel Jaller, David Phong, Leticia Pineda Blanco*

**Session 767: Traffic Modeling and Traffic Control**

6:00 PM-7:30 PM

**ITS-Davis Presenter:** *H. Zhang*

**January 11, 2017**

**Session 818: Changing Demand and Maintenance Needs: Grappling with the Uncertainty**

10:15 AM-12:00 PM

***What Affects U.S. Passenger Travel? Exploring Current Trends and Future Uncertainties Affecting Travel Demand***

**ITS-Davis Presenter:** *Giovanni Circella*

**Session 829: Transportation Demand Forecasting Poster Mega-session, Part 1 (Part 2, Session 830)**

10:15 AM-12:00 PM

***Sketch-Level Methods for Quantifying Vehicle Miles Traveled***

**ITS-Davis Presenter:** *Amy Lee, Kevin Fang, Susan Handy*

***Shared Mobility: Current Adoption, Use, and Potential Impacts on Travel Behavior***

**ITS-Davis Presenter:** *Regina Clewlow, Gouri Shankar Mishra*

**Session 833: Hot Topics and Emerging Themes in Ecology and Transportation**

10:15 AM-12:00 PM

***Advancing Environmental Monitoring of Highways with Autonomous Camera Systems and Web-informatics***

**ITS-Davis Presenter:** *Fraser Shilling, David Waetjen*

**Session 840: RAP/RAS Impacts on Mixture Performance**

10:15 AM-12:00 PM

***Design and Performance Properties of High RAP Content Mixes for Use in Airfield Pavements***

**ITS-Davis Presenter:** *Mohamad Zia Alavi, David Jones*



**Session 852 Bicyclist Travel Behavior**

10:15 AM-12:00 PM

*The Relationship between Bicycling and the Built Environment Revisited: New Evidence from California*

ITS-Davis Presenter: Susan Handy

*Bicyclist Behavior in San Francisco: A Before-and-After Study of the Impact of Infrastructure Investments*

ITS-Davis Presenter: Dillon Fitch, Calvin Thigpen, Antonio Cruz, Susan Handy

**Session 868 Transforming Approaches to Address Transformative Mobility**

2:30 PM-4:00 PM

*What Drives Millennials: Comparison of Vehicle Miles Traveled Between Millennials and Generation X in California*

ITS-Davis Presenter: Kate Tiedeman, Giovanni Circella, Farzad Alemi, Rosaria Berliner

**Session 774: Technology Use in Travel Surveys**

8:00 AM-9:45 AM

*Understanding the Stability of Individual Travel Patterns Based on Longitudinal Mobile Phone Data: Case Study of Three Communities in Shanghai, China*

ITS-Davis Presenter: H. Zhang

**Session 777: Planning Implications of Emerging Transportation Technologies and Trends**

8:00 AM-9:45 AM

*Multimodal Behavior of Millennials: Exploring Differences in Travel Choices Between Young Adults and Gen-Xers in California*

ITS-Davis Presenter: Giovanni Circella, Farzad Alemi, Rosaria Berliner, Kate Tiedeman, Lewis Fulton, Susan Handy

**Session 780: Transportation Planning Applications**

8:00 AM-9:45 AM

*Closing the Induced Vehicle Travel Gap Between Research and Practice*

ITS-Davis Presenter: Susan Handy

**Session 785: Accelerated Pavement Testing Advancements**

8:00 AM-9:45 AM

*Testing to Compare Performance of Full Depth Reclamation with Foamed Asphalt Under Three Different Environmental Conditions*

ITS-Davis Presenter: David Jones

**Session 786: Design, Rehabilitation, and Accelerated Pavement Testing of Concrete Pavements**

8:00 AM-9:45 AM

*Structural Behavior of Permeable Interlocking Concrete Pavement Under Heavy Traffic Loading: Results from Accelerated Pavement Testing*

ITS-Davis Presenter: David Jones, Rongzong Wu, John Harvey

**January 12, 2017**

**Workshop 894: Low-Impact Development for Road Stormwater Runoff Management to Reduce the Risk of Flooding and Water Pollution**

8:00 AM-12:00 PM

*Full-Scale Structural Testing and Development of ME Design Method for Permeable Interlocking Concrete Pavement*

**ITS-Davis Presenter:** *John Harvey*

**Workshop 896: Strategic Planning for Decarbonization Pathways for U.S. Transportation**

8:00 AM-12:00 PM

*Land Use and Demand Considerations*

**ITS-Davis Presenter:** *Giovanni Circella*