The TRB 100th Annual Meeting will be conducted as a virtual event over a series of dates throughout January 2021. Many ITS-Davis representatives will be participating in the meetings, sessions and exhibits. Their presentation are listed below with session number, title, date, time, presentation topics, and authors.

**THURSDAY, JANUARY 7, 2021**

**COMMITTEE MEETINGS**

2:00 PM – 5:00 PM ET

Low-Volume Roads Committee

ITS-Davis Presider: David Jones

4:00 PM – 5:30 PM ET

Freight Surveys Subcommittee Meeting, AEP25(2)

ITS-Davis Presider: Miguel Jaller

ITS-Davis Presenter: Giovanni Circella

**TUESDAY, JANUARY 12, 2021**

**COMMITTEE MEETINGS**

4:00 PM – 5:30 PM ET

Effects of Information and Communication Technologies (ICT) on Travel Choices Committee, AEP35

ITS-Davis Presider: Giovanni Circella

**WEDNESDAY, JANUARY 13, 2021**

**COMMITTEE MEETINGS**

10:00 AM – 11:30 AM ET

International Aspects of Transportation Energy, AMS30(1), Joint Subcommittee of AMS30, AMS40

ITS-Davis Co-Author: Lew Fulton

**THURSDAY, JANUARY 14, 2021**

**COMMITTEE MEETINGS**

4:00 PM – 5:30 PM ET

Energy and Demand Implications of Connected and Automated Vehicles, AMS30(3), Joint Subcommittee of AMS30, ACP30

ITS-Davis Presider: Austin Brown

Policy updates

ITS-Davis Presenters: Austin Brown, Kelly Fleming
THURSDAY, JANUARY 21, 2021

PRESENTATION AND PAPERS
2:00 PM – 5:00 PM ET
Workshop 1018: The Future of Travel in a Post-COVID-19 Pandemic World
ITS-Davis Presider: Giovanni Circella
Telework, Adoption of ICT and Equity Issues: What are the Longer-Term Implications of the COVID-19 Pandemic on Cities?
ITS-Davis Presenters: Giovanni Circella, Mischa Young

FRIDAY, JANUARY 22, 2021

PRESENTATION AND PAPERS
10:00 AM – 1:00 PM ET
Workshop 1036: Pandemics and Public Health in Integrated Transport Modeling
The Impact of COVID-19 on Transportation and Oil Demand to 2030
ITS-Davis Presenter: Lewis Fulton

2:00 PM – 5:00 PM ET
Panel Presentations: Making Progress on WVC Standards Development (Data collection standards from individual observers to global systems)
ITS-Davis Presenter: Fraser Shilling

COMMITTEE MEETINGS
2:00 PM – 5:00 PM ET
Workshop 1047: Electrification of Fleet and Rideshare Vehicles
Energy, Environment, Vehicles and Equipment
ITS-Davis Presider: Alan Jenn

MONDAY, JANUARY 25, 2021

PRESENTATION AND PAPERS
1:00 PM – 2:30 PM ET
Lectern Session 1087: Travel Behavior Research: We've come a long way, and have a long way to go! – a Panel Discussion
ITS-Davis Presenter: Susan Handy

Poster Session 1108: Micromobility
What Mobility Modes Do Shared E-Scooters Displace? A Review of Recent Research Findings
ITS-Davis Presenters: Kailai Wang, Xiaodong Qian, Giovanni Circella, Jai Malik, Dillon Fitch

2:30 PM – 4:00 PM ET
**Poster Session 1113: Dwight David Eisenhower Transportation Fellowship Program**  
*Posters, Part 1 (Part 2, Session 1215; Part 3, Session 1306; Part 4, Session 1397)*  
*The Effect of COVID-19 on Routine Mode Choice*  
*ITS-Davis Presenter: Amy Lee*

**Poster Session 1114: Innovative Tools to Enhance Transportation Asset Management**  
*A National Survey and Roadmap on Complete Streets Implementation Status and Its Asset Management*  
*ITS-Davis Presenter: John Harvey*

**Poster Session 1120: Current Issues in Transportation Energy**  
*ITS-Davis Presider: Alan Jenn*  
*Techno Economic Evaluation of Low Carbon Scenarios with High Fuel Cell Vehicle Penetration in California*  
*ITS-Davis Presenter: Vishnu Vijayakumar, Lewis Fulton*

**Poster Session 1122: Current Issues in Aviation**  
*Nudging consumers toward greener air travel by adding carbon to the equation in online flight search*  
*ITS-Davis Presenter: Angela Sanguinetti, Nina Amenta*

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**TUESDAY, JANUARY 26, 2021**

**PAPERS AND PRESENTATIONS**

10:00 AM – 11:30 AM ET  
**Poster Session 1157: Design and Rehabilitation of Concrete Pavements**  
*Pavement ME Transverse Cracking Model Calibration Using California’s Pavement Management System*  
*ITS-Davis Presenters: Ashkan Saboori, Jeremy Lea, Rongzong Wu, John Harvey*  
*An Insight into Moisture-Dependence of Concrete Coefficient of Thermal Expansion in Concrete Pavements*  
*ITS-Davis Presenters: John Harvey, Rongzong Wu, Julio Paniagua*

11:30 AM – 1:00 PM ET  
**Poster Session 1181: Neighborhood Level Impact Analysis**  
*Travel Behavior in Sustainable Communities: The Case of the Sustainable City in Dubai*  
*ITS-Davis Presenters: Alimurtaza Kothawala, Giovanni Circella, Farzad Alemi*  
*Neighborhood Effects of Safe Routes to School Programs on the Likelihood of Active Travel to School*  
*ITS-Davis Presenter: Reyhane Hosseinzade*
2:30 PM – 4:00 PM ET

Poster Session 1213: Artificial Intelligence and Machine Learning Methods for Transportation Applications (Part I)

*Enhancing the Performance of Vehicle Passenger Detection Under Adverse Weather Conditions Using Augmented-Reality-Based Machine Learning Technology*

**ITS-Davis Presenter:** Changmo Kim

Poster Session 1214: Changes in Activity Patterns, Use of ICT and Advanced Mobility during the COVID-19 Pandemic

*Longitudinal Analysis of COVID-19 Impacts on Mobility: An Early Snapshot of the Emerging Changes in Travel Behavior*

**ITS-Davis Presenters:** Grant Matson, Sean McElroy, Giovanni Circella

Poster Session 1215: Dwight David Eisenhower Transportation Fellowship Program Posters, Part 2 (Part 1, Session 1113; Part 3, Session 1306; Part 4, Session 1397)

*Understanding how demographics, vehicle, and dealership characteristics impact EV sales in California*

**ITS-Davis Presenter:** Jean Ji

Poster Session 1222: Evaluation, performance and durability of asphalt mixtures

*Developing a Surrogate Performance-Related Test for Fatigue Cracking of Asphalt Pavement*

**ITS-Davis Presenters:** Liya Jiao, John Harvey, Mohamed Elkashef, Yanlong Liang, David Jones

*Ruggedness Evaluation and Precision Estimates for Newly Developed Test Methods for Asphalt-Treated Cold Recycled Pavements*

**ITS-Davis Presenter:** David Jones

Poster Session 1227: Transportation Equity: Incorporating Equity into the Transportation Decision-Making Process

*Equity-oriented Criteria for Project Prioritization in Regional Transportation Planning*

**ITS-Davis Presenter:** Jesus Barajas

*Practical Strategies for Achieving Transportation Justice: Seeing Beyond State-Sponsored Approaches*

**ITS-Davis Presenter:** Jonathan London

Poster Session 1228: Transportation Equity: Understanding and Addressing Transportation Disadvantage

*Commuting in Context: A Qualitative Study of Transportation Challenges for Disadvantaged Job Seekers in Chicago, IL*

**ITS-Davis Presenter:** Jesus Barajas

Poster Session 1233: Board the Bus - Rural, Intercity, and Specialized Bus Transportation for 2021
**Shared Mobility in Los Angeles County: A Case Study in Westside Cities**
**ITS-Davis Presenters:** Huajun Chai, Caroline Rodier

4:00 PM – 5:30 PM ET

**Poster Session 1248: Emerging Research in Bikeshare and Micro-Mobility**
**Exploring the Factors that Influence Bike-Share Mode Substitution: The Case of the Sacramento Area Dock-less E-bikes**
**ITS-Davis Presenters:** Tatsuya Fukushige, Dillon Fitch, Susan Handy

**Can Bike Share change Attitudes? Evidence from the Sacramento Region**
**ITS-Davis Presenters:** Dillon Fitch, Hossain Mohiuddin, Susan Handy

**Equitable Distribution of Bikeshare Stations: A Multi-Objective Optimization Approach**
**ITS-Davis Presenters:** Xiaodong Qian, Miguel Jaller, Giovanni Circella

**Exploring the Influence of Socio-Demographics and Latent Attitude Factors on Intention to Use Bike-Share: A Case Study from “Before” Bike-Share in the Sacramento Region**
**ITS-Davis Presenters:** Hossain Mohiuddin, Dillon Fitch, Susan Handy

**Poster Session 1253: Advances in Mobile Source Emissions and Air Quality Modelling**
**The Emission Implications of Plug-in Hybrid Electric Vehicles: An Empirical Exploration of Engine Starts**
**ITS-Davis Presenters:** Vaishnavi Karanam, Gil Tal

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**WEDNESDAY, JANUARY 27, 2020**

**PRESENTATION AND PAPERS**

10:00 AM – 11:30 AM ET

**Workshop 1273: Modern Advances & Applications in Asphalt Pavement Design & Rehabilitation**
**Pavement Fatigue Damage Simulations Using Second Generation Mechanistic-Empirical Approaches**
**ITS-Davis Presenter:** John Harvey

**Workshop 1276: Understanding transportation and health linkages through examination of policy, infrastructure, and behavior**
**High-Resolution Cumulative Exposure Assessment of Traffic-Related Air Pollution with Different Google Navigation Route Options**
**ITS-Davis Presenter:** Minmeng Tang

2:30 PM – 4:00 PM ET

**Workshop 1307: Top 16 High Value Research Projects**
**A Guide to Successfully Convert Severely Distressed Paved Roads to Engineered Unpaved Roads**
ITS-Davis Presenter: David Jones

Workshop 1316: Alternative Fuel Vehicle Applications
Electric Vehicle Charging by Drivers Providing Ride-hailing Services in the United States
ITS-Davis Presenters: Kenneth Kurani, Angela Sanguinetti

Poster Session 1316: Alternative Fuel Vehicle Applications
Charging Forward: Deploying EV Infrastructure for Uber and Lyft in California
ITS-Davis Presenter: Alan Jenn

4:00 PM – 5:30 PM ET
Workshop 1334: Current Research in International Trade and Transportation
Spatial Analysis of the 2018 Logistics Performance Index Using Multivariate Kernel Function to Improve Geographically Weighted Regression Models
ITS-Davis Presenters: Runhua (Ivan) Xiao, Miguel Jaller, Haihao Zhu

THURSDAY, JANUARY 28, 2020

PRESENTATION AND PAPERS
10:00 AM – 11:30 AM ET
Workshop 1341: Potential Influence of Alternative Transportation on Impaired Driving Traffic Outcomes
Influence of Ridehailing Availability on Driving Injuries and Fatalities
ITS-Davis Presenter: Noli Brazil

11:30 AM – 1:00 PM ET
Workshop 1363: Hot Topics and Emerging Issues in Environmental Analysis and Ecology
A Reprieve from US Wildlife Mortality on Roads during the COVID-19 Pandemic
ITS-Davis Presenters: Fraser Shilling, Tricia Nguyen, Malek Saleh, Min Khant Kyaw, Karla Tapia, Gabrielle Truhillo, Mireya Bejarano, David Waetjen

Automated Harvesting and Display of WVC and Crash Data in California
ITS-Davis Presenters: David Waetjen, Fraser Shilling

Semi-Automated Management and Analysis of Camera Trap Imagery
ITS-Davis Presenters: David Waetjen, Christian John, Fraser Shilling

Wildlife-Responsive Crossing Design to Reduce Noise and Light Disturbance
ITS-Davis Presenters: Sean McDowell, Adetayo Oke, Aaron Bass, David Waetjen, Winston Vickers, Fraser Shilling
Wildlife Vehicle Conflict Data Collection and Reporting Standards for State Systems
ITS-Davis Presenter: Fraser Shilling

Proposed Habitat Linkages do not Predict Wildlife Occurrence
ITS-Davis Presenter: Autumn Iverson, David Waetjen, and Fraser Shilling

Workshop 1367: Sustainability and Well-being
Are Walking and Cycling Good for All? Tracking Differences in Associations among Active Travel, Socioeconomics, Gentrification, and Self-reported Health
ITS-Davis Presenters: Jesus Barajas, Lindsay Braun

Workshop 1373: Alternative Fuel Refueling and Infrastructure
Estimating the Total Number of Workplace and Public EV Chargers in California
ITS-Davis Presenters: Bingzheng Xu, Adam Davis, Gil Tal

Investigating the Sensitivity of Electric Vehicle Out-of-Home Charging Demand to Changes in Fleet Makeup and Vehicle Usage, a Case Study for California 2030
ITS-Davis Presenters: Adam Davis, Gil Tal

Integrating Plug-in Electric Vehicles (PEVs) into Household Travel-Factors influencing PEV Use in California
ITS-Davis Presenters: Debapriya Chakraborty, Scott Hardman, Gil Tal

Workshop 1374: Planning for People and Multimodal Travel
Households with Constrained Off-Street Parking Drive Fewer Miles
ITS-Davis Presenter: Susan Handy

1:00 PM – 2:30 PM ET
Lectern Session 1389: Freight Day, Part 4: Atypical Disruptions Reshaping Freight Systems
Freight Transportation, Marine Transportation, Terminals and Facilities, Spotlight Theme: Launching a New Century of Mobility and Quality of Life
ITS-Davis Presider: Miguel Jaller

2:30 PM – 4:00 PM ET
Workshop 1395: Emerging methods in transportation data analysis
Investigating the Modal Impacts of Ridehailing and their Association with Shared Ridehailing
ITS-Davis Presenter: Giovanni Circella

Workshop 1396: Emerging and Future Mobility
The True Cost of Sharing: A Detour Penalty Analysis Between Ridehailing and Shared Ridehailing Trips in Toronto
ITS-Davis Presenter: Mischa Young
**Substitution or Complementary? A Latent-Class Cluster Analysis of Ridehailing Impacts on the Use of Travel Modes in Southern U.S. Cities**  
*ITS-Davis Presenter: Giovanni Circella*

**Understanding the Role of Built Environment in the Use of Ridehailing for Non-Work Travel after Accounting for Residential Self-Selection**  
*ITS-Davis Presenters: Jai Malik, David Bunch, Susan Handy, Giovanni Circella*

2:30 PM – 4:00 PM ET  
**Workshop 1401: Beyond Fixed Route Service: On Demand and other First- and Last-mile Considerations**  
*Eliminating Barriers to Nighttime Activity Participation: The Case of On-Demand Transit in Belleville, Canada*  
*ITS-Davis Presenter: Mischa Young*

**Planning for the First and Last Mile: A Review of Practices at Selected Transit Agencies**  
*ITS-Davis Presenter: Hossain Mohiuddin*

4:00 PM – 5:30 PM ET  
**Workshop 1409: Macro Impacts of COVID-19 on the New Technology Market**  
*A State Policy Perspective*  
*ITS-Davis Presenter: Gil Tal*

**FRIDAY, JANUARY 29, 2020**

**PRESENTATION AND PAPERS**

10:00 AM – 11:30 AM ET  
**Workshop 1421: Opportunities and Challenges of New Technologies for Collecting and Analyzing Natural Resource Data and Reducing Environmental Conflicts in Transportation Systems**  
*Informatics for Big Data: Examples from Genetics, Camera Traps/AI, Roadkill, Remote-sensing and Water Quality*  
*ITS-Davis Presenter: Fraser Shilling*

**Workshop 1431: Freight Operations and Logistics**  
*Spatio-Temporal Analysis of Freight Flows in Southern California*  
*ITS-Davis Presenters: Daniel Rivera-Royero, Miguel Jaller, Changmo Kim*

11:30 AM – 1:00 PM ET  
**Workshop 1437: Alternative Fuel Consumer Perceptions and Modeling**  
*Why are Fleets Buying Electric Vehicles and Why Aren’t They Buying More?*  
*ITS-Davis Presenters: Claire Sugihara, Scott Hardman*
Discontinuance Among California’s Electric Vehicle Buyers: Why are Some Consumers Abandoning Electric Vehicles?
ITS-Davis Presenters: Scott Hardman, Gil Tal

Deciphering the Factors Associated with the Adoption of Alternative Fuel Vehicles: An Investigation of Latent Attitudes and Supply-side Determinants
ITS-Davis Presenters: Xiatian Wu, Kailai Wang, David Bunch, Giovanni Circella, Grant Matson, Farzad Alemi

1:00 PM – 2:30 PM ET
Workshop 1449: Predicting the Future of Mobility Systems: Automation, Transit, and Hailing
A Glimpse of the Future: Simulating Life with Personally-Owned Autonomous Vehicles & Their Implications on Travel-Related Behaviors
ITS-Davis Presenters: Jai Malik, Giovanni Circella