

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 President: *David Jones*

4:00 PM – 5:30 PM ET

Freight Surveys Subcommittee Meeting, AEP25(2)

ITS-Davis President: *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 President: *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 President: *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 President: *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

Workshop 1041: Heading our Way? National Standards for Wildlife-Vehicle Collision (WVC) Data Collection

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 President: *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 President: *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*

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*

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 President: *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*