2019 Transportation Research Board (TRB) Annual Meeting
January 13-17, 2019
Washington, D.C.
WORKSHOPS

Workshop 1063

Taking Stock of Transportation Life-Cycle Assessment

Sunday 1:30 PM- 4:30 PM  
Convention Center, 146A  

Mikhail Chester, Arizona State University, presiding

Workshop 1079

Modeling Uncertainties in Cooperative Automated Vehicles

Sunday 1:30 PM- 4:30 PM  
Convention Center, Salon C  

Real-Time Management of Large Fleets of Self-Driving Vehicles Using Virtual Cyber Tracks (P19-21931)  

Xuesong Zhou, Arizona State University

SESSIONS

Lectern Session 1103

Life Course Events and Inter-Generational Travel Behavior

Monday 8:00 AM- 9:45 AM  
Convention Center, 145A  

The Role of Childhood Context and Experience in Shaping Activity Travel Choices in Adulthood (19-05977)  

Kamryn Long, University of Texas, Austin; Denise Capasso da Silva, Arizona State University; Felipe Dias, University of Texas, Austin; Sara Khoeini, Arizona State University; Aarti C. Bhat, Loyola Marymount University; Ram Pendyala, Arizona State University; Chandra Bhat, University of Texas, Austin
Ridesourcing and Transportation Network Companies and Taxis: Demographics, Use, and Partnerships

Monday 10:15 AM- 12:00 PM
Convention Center, 145B

Trends in Taxi Use and the Advent of Ridehailing, 1995--2017: Evidence from the U.S. National Household Travel Survey (19-05767)
Matthew Conway, Arizona State University; Deborah Salon, Arizona State University; David King, Arizona State University

Frontiers in Construction Management

Monday 10:15 AM- 12:00 PM
Convention Center, Hall A

Reihan Samsami, University of Florida; R. Edward Minchin, University of Florida; Daniel Tran, University of Kansas; Yifeng Tian, University of Florida; Sid Scott, HKA-Global; Daniel D'Angelo, Applied Research Associates, Inc. (ARA); Cliff Schexnayder, Arizona State University; Jeffery Russell, University of Wisconsin, Madison (Board Number B329)

Public Transit Payment, Policy, and Customer Response

Monday 10:15 AM- 12:00 PM
Convention Center, Hall A

Matthew Conway, Arizona State University; Anson F Stewart, Conveyal (Board Number A228)
Lectern Session 1247

Best Papers from the 2017 National Household Travel Survey Data Challenge

Monday 1:30 PM - 3:15 PM
Convention Center, 151B

Variation in the Cost of Car Ownership in the United States (P19-20906)
Deborah Salon, Arizona State University; Matthew Conway, Arizona State University

Lectern Session 1251

Advances in Travel Behavior Analysis

Monday 1:30 PM - 3:15 PM
Convention Center, 156

Fusing Multiple Sources of Data to Understand Ride-Hailing Use (19-03197)
Felipe Dias, University of Texas, Austin; Patricia S. Lavieri, University of Texas, Austin; Taehooie Kim, Arizona State University; Chandra Bhat, University of Texas, Austin; Ram M. Pendyala, Arizona State University

Poster Session 1289

Parking Potpourri

Monday 1:30 PM - 3:15 PM
Convention Center, Hall A

The Past, Present, and Future of Parking: A Case Study of Metropolitan Phoenix, Arizona (19-04814)
Christopher Hoehne, Arizona State University; Mikhail Chester, Arizona State University; David King, Arizona State University; Andrew M Fraser, Arizona State University
(Board Number A148)
Poster Session 1313

SHRP 2 Naturalistic Driving Study Student Posters

Monday 1:30 PM- 3:15 PM
Convention Center, Hall A

Development of a Structural Equations Model to Understand Factors Influencing the Driver State Using Naturalistic Driving Study Data (P19-21184)
Shivam Sharda, Arizona State University
(Board Number B456)

Lectern Session 1320

Highlights from the National Household Travel Survey Data Workshop

Monday 3:45 PM- 5:30 PM
Convention Center, 151B

Trends in Taxi Usage and the Advent of Ridehailing, 1995–2017 (P19-20618)
Matthew Conway, Arizona State University; Deborah Salon, Arizona State University; David King, Arizona State University

Poster Session 1361

Current Issues in Alternative Transportation Fuels and Technologies

Monday 3:45 PM- 5:30 PM
Convention Center, Hall A

Content Analysis of Interviews with Hydrogen Fuel Cell Drivers in Los Angeles (19-02152)
Oscar Lopez, Arizona State University; Rhian Stotts, Arizona State University; Scott Kelley, University of Nevada, Reno; Michael Kuby, Arizona State University
(Board Number A128)
Lectern Session 1373

Public Transport Markets and Strategies in Developing Countries

Monday 6:00 PM- 7:30 PM
Convention Center, 154

Commuting in Urban Kenya (19-03111)
Deborah Salon, Arizona State University; Sumila Gulyani, World Bank

Lectern Session 1395

Incorporating Sustainability into Planning for Emerging Technologies

Tuesday 8:00 AM- 9:45 AM
Convention Center, 140B

Emerging Governance Frameworks for Autonomous Vehicles in Metropolitan Planning Organizations (P19-20843)
Thaddeus Miller, Arizona State University

Poster Session 1438

Transportation Safety Management from Start to Finish

Tuesday 8:00 AM- 9:45 AM
Convention Center, Hall A

High Injury Networks: Why, When, and How to Use Them: A Case Study (19-03851)
Frank Proulx, Toole Design Group, LLC; Rebecca Lauren Sanders, Arizona State University
(Board Number B352)
Lectern Session 1475

Exploring Driving Behaviors Among Older Adults Using Multiple Methodologies

Tuesday 10:15 AM- 12:00 PM
Convention Center, 103A

Exploring Patterns of Heterogeneity in Activity Travel Behaviors of the Elderly (19-03074)
Joseph Hutchinson, University of Texas, Austin; Denise Capasso da Silva, Arizona State University; Felipe Dias, University of Texas, Austin; Chandra Bhat, University of Texas, Austin; Sara Khoeini, Arizona State University; Ram Pendyala, Arizona State University; William Lam, Hong Kong Polytechnic University

Lectern Session 1478

Cycling Safety and Comfort

Tuesday 10:15 AM- 12:00 PM
Convention Center, 102B

The Impact of Near Misses and Collisions on Bicyclist Behavior
Calvin Thigpen, Lime; Trisalyn Nelson, Arizona State University; Colin Ferster, Victoria University; Karen Laberee, Victoria University

Poster Session 1558

Asphalt Binder Aging, Low Temperature Testing, High Temperature Testing, Creep Recovery, Fatigue, and Other Topics

Tuesday 1:30 PM- 3:15 PM
Convention Center, Hall A

Investigation of Thermo-Mechanical Characteristics of Wax-Doped Aged Asphalt Binder (19-04197)
Alireza Samieadel, Arizona State University; Bjarke Høgsaa, Aalborg University; Ellie H. Fini, Arizona State University (Board Number B365)

The Relationship Between Asphalt Binder Parameters and Asphalt Mixture Rutting (19-04774)
Ramadan Salim, Arizona State University; Akshay Gundla, Applied Research Associates, Inc. (ARA); Ali Zalghout, Arizona State University; Benjamin Underwood, North Carolina State University; Kamil Kaloush, Arizona State University
(Board Number B376)

The Effect of Percent Recovery from the Multiple Stress Creep and Recovery (MSCR) Test on Performance of Asphalt Mixtures (19-05820)

Ramadan Salim, Arizona State University; Akshay Gundla, Applied Research Associates, Inc. (ARA); Benjamin Underwood, North Carolina State University; Kamil Kaloush, Arizona State University
(Board Number B377)

Lectern Session 1585

Activity Patterns and Attitudes

Tuesday 3:45 PM- 5:30 PM
Convention Center, 145A

Do Attitudes Affect Behavioral Choices or Vice Versa?: Uncovering Latent Segments Within a Population (19-03183)

Shivam Sharda, Arizona State University; Sebastian Astroza, Universidad de Concepción; Sara Khoeini, Arizona State University; Irfan Batur, Arizona State University; Ram Pendyala, Arizona State University; Chandra Bhat, University of Texas, Austin

Lectern Session 1608

Making Rural Transit Better

Tuesday 3:45 PM- 5:30 PM
Convention Center, 149

Development of the Cost Baseline for Achieving Excellence in Rural Transit Facilities (19-05955)
Sharareh (Sherri) Kermanshachi, University of Texas, Arlington; Elnaz safapour, University of Texas, Arlington; Stuart Anderson, Texas A&M Transportation Institute; Keith Molenaar, University of Colorado, Boulder; Cliff Schexnayder, Arizona State University
Lectern Session 1648

Infrastructure Planning and Development for Electric and Hydrogen Vehicles

Tuesday 6:00 PM- 7:30 PM
Convention Center, 146A

Node-Based Versus Path-Based Location Models for Urban Hydrogen Refueling Stations: Comparing Convenience and Coverage Abilities (19-05375)
Yudai Honma, The University of Tokyo; Michael Kuby, Arizona State University

Lectern Session 1671

Pavement Management Performance Prediction

Wednesday 8:00 AM- 9:45 AM
Convention Center, 202B

PCI-Based Pavement Performance Modeling Using Long-Term Pavement Performance Data (19-05058)
Kamil Kaloush, Arizona State University; Kan Wu, Pennsylvania State University; Ali Zalghout, Arizona State University; Jose Medina, Arizona State University

Lectern Session 1680

Intelligent Transportation Systems: Connected Vehicle Applications for Deployment

Wednesday 8:00 AM- 9:45 AM
Convention Center, 102B

Jun Xiao, Arizona State University; Yingyan Lou, Arizona State University

Poster Session 1691

Transportation Infrastructure Security and Resilience

Wednesday 8:00 AM- 9:45 AM
Convention Center, Hall A

Managing Wildfire Risk, Precipitation, and Transportation Infrastructure (19-02020)
Poster Session 1695

Built Environment and Travel Choice

Wednesday 8:00 AM- 9:45 AM
Convention Center, Hall A

Older Adult Lifespace Varies by Driving Status and Residential Population Density (19-01263)
Christine Phillips, Arizona State University; Sara A. Freed, Pennsylvania State University; Lesley Ross, Pennsylvania State University
(Board Number A214)

Poster Session 1704

Traffic Flow Theory and Characteristics, Part 4

Wednesday 8:00 AM- 9:45 AM
Convention Center, Hall A

A Car Following Model Incorporating Reaction Time Dynamics: Online Calibration and a Case Study (19-03490)
Kerem Demirtas, Arizona State University; Pitu Mirchandani, Arizona State University; Xuesong Zhou, Arizona State University
(Board Number B423)

Poster Session 1499

Bicycle Transportation Research

Wednesday 10:15 AM- 12:00 PM
Convention Center, Hall A

Bicycle Crash Types on National, State and Local Levels: a New Look (19-01769)
Libby Thomas, UNC Highway Safety Research Center; Krista Nordback, UNC Highway Safety Research Center; Rebecca Lauren Sanders, Arizona State University
(Board Number B359)
Lectern Session 1760

Latest and Greatest Advances in Econometrics for Demand Forecasting

Wednesday 2:30 PM- 4:00 PM
Convention Center, 146B

On the Use of Probit-Based Models for Ranking Data Analysis (19-02813)
Gopindra S. Nair, University of Texas, Austin; Chandra Bhat, University of Texas, Austin; Ram Pendyala, Arizona State University; Becky P.Y. Loo, University of Hong Kong; William Lam, Hong Kong Polytechnic University

Poster Session 1780

Transportation Network Modeling Mega Poster Session

Wednesday 2:30 PM- 4:00 PM
Convention Center, Hall A

- Continuous Modeling for the Design of a Shuttle System with Modular Vehicles (19-02322)
  Zhiwei (Nicklaus) Chen, University of South Florida; Xiaopeng (Shaw) Li, University of South Florida; Xuesong Zhou, Arizona State University
  (Board Number B322)

- Reliable Dual Decomposition Framework for Vehicle Routing Problems in City Logistics: Alternating Direction Method of Multipliers (19-03720)
  Yu Yao, Beijing Jiaotong University; Xiaoning Zhu, Beijing Jiaotong University; Xuesong Zhou, Arizona State University; Pengli Mo, Beijing Jiaotong University
  (Board Number B323)

COMMITTEES

Network Models in Practice Subcommittee, ADB30(4)

Tuesday 10:15 AM- 12:00 PM
Marriott Marquis, Independence H (M4)

Xuesong Zhou, Arizona State University, presiding