Sunday, January 8

9:00 AM - 12:00 PM
Convention Center, 140B
Workshop 114: Bats at the Crossroads: Regulatory Compliance for Program and Project Delivery and Approaches to Conserving Imperiled Species
Faster, Cheaper, and With Greater Ecological Lift: The Better Way to Mitigate
Matt Perlik
Ohio Department of Transportation

1:30 PM - 4:30 PM
Convention Center, 204C
Workshop 177: Biomediated and Bioinspired Soil Modifications and Applications
Munir Nazzal
Ohio University

GIS and BIM 3
John Pryzbyla
Woolpert, Inc.

9:00 AM - 12:00 PM
Convention Center, 150A
Workshop 140: U.S. Department of Transportation's Smart City Challenge and FTA's MOD Sandbox: Advancing Multimodal Mobility and Best Practices, Part 1
US DOT's Smart City Challenge and Columbus, Ohio’s Multimodal Vision from Columbus, OH
Carla Bailo
Ohio State University
Aparna Dial
City of Columbus

1:30 PM - 4:30 PM
Convention Center, 150A
Workshop 187: U.S. Department of Transportation's Smart City Challenge and FTA's MOD Sandbox: Advancing Multimodal Mobility and Best Practices, Part 2
US DOT’s Smart City Challenge and Columbus, Ohio’s Multimodal Vision from Columbus, OH

1:30 PM - 5:00 PM
Convention Center, 146A
Workshop 195: Doctoral Research in Transport Modeling
Structural Analysis of Trip Chaining, Joint Travel, Travel Demand, Sociodemographics, and Urban Form: Evidence from Cleveland Metropolitan Area, Ohio
Yu-jen Chen
Ohio State University
Monday, January 9

8:00 AM - 9:45 AM
Convention Center, Hall E
Session 232: Predicting Models and Methods for Soil Erosion Control and Slurry Infiltration
(Poster)
Effect of Microbial Induced Calcite Precipitation on Surface Erosion of Granular Soils: Proof of Concept
Ruotian Bao
University of Akron
Teresa Cutright
University of Akron
Long Chen
University of Akron
Jiahua Zhu
University of Akron
Junliang Tao
University of Akron

8:00 AM - 9:45 AM
Convention Center, Hall E
Session 241: Innovative Tools for Owners to Manage the Bridge Inventory (Poster)
Performance Measures for Assessment of the Condition of Bridges: Critical Review
Ehsan Fereshtehnejad
Ohio State University
Jieun Hur
Ohio State University
Abdollah Shafieezaheh
Ohio State University

10:15 AM - 12:00 PM
Convention Center, Hall E
Session 314: Comparing Burrowing Behavior of Atlantic Razor Clam to Static Penetration Simulation and Use and Operation of Mini Piezocone (Poster)
Christopher Merklin
Ohio Department of Transportation
Penetrating in Granular Materials with Changing Shape
Junliang Tao
University of Akron

10:15 AM - 12:00 PM
Convention Center, 209C
Session 315: Considering Unsaturated Conditions in Numerical Analyses for Pavement Design (Lectern)
Suffusion Patterns for Granular Soils: Observations from Numerical Simulations
Hui Tao
University of Akron
Junliang Tao
University of Akron
Desiccation Cracking of Expansive Soil: Experimental Characterization and Numerical Simulation
Chanjuan Han
Case Western Reserve University
Xiong Yu
Case Western Reserve University

10:15 AM - 12:00 PM
Convention Center, 101
Session 321: Car-following Models and Longitudinal Vehicle Control (Lectern)
Speed-Spacing Dependency on Relative Speed from the Adjacent Lane: Presenting New Insights for Car Following Models
Balaji Ponnudhevanarayanan
Ohio State University
Benjamin Coifman
Ohio State University
10:15 AM- 12:00 PM  
Convention Center, 144C  
Session 342: More from the Aviation Trenches: Young Members in Professional Practice (Lectern)  
  Martin Rottler  
Ohio State University  

1:30 PM- 3:15 PM  
Convention Center, 150B  
Session 346: Smart Cities, Smart Organizations (Lectern)  
Mobility Research and Business Development  
  Carla Bailo  
Ohio State University  
Smart Cities in Columbus, Ohio  
  Kenny McDonald  
Government of Columbus, Ohio  

1:30 PM- 3:15 PM  
Convention Center, Hall E  
Session 350: Transportation and Economics (Poster)  
Use of Economic Analysis for Major Capacity Project Selection in Ohio  
  Gregory Giaimo  
Ohio Department of Transportation  
  Rebekah Straub Anderson  
Ohio Department of Transportation  
Biggest Bang for the Buck: Selecting Projects for an MPO’s STP Funding  
  Sam Granato  
Ohio Department of Transportation  

1:30 PM- 3:15 PM  
Marriott Marquis, Marquis Ballroom Salon 13 (M2)  
Hot Topics for Roadways Subcommittee, AHB65(4)  
  Larry Sutherland  
WSP | Parsons Brinckerhoff  

1:30 PM- 5:30 PM  
Convention Center, Hall E  
Session 358: New Research on Travel Time, Speed, and Reliability Data (Poster)  
  Sam Granato  
Ohio Department of Transportation  

1:30 PM- 3:15 PM  
Convention Center, Hall E  
Session 363: Information Technology Applications in Transportation (Poster)  
Application of Dempster–Shafer Data Fusion Technique in Support of Decision Making with Big Data  
  Ping Yi  
University of Akron  
  Songling Zhang  
University of Akron  

1:30 PM- 3:15 PM  
Convention Center, 146A  
Session 368: Low-Carbon Transportation in Smart Cities (Lectern)  
DOT/DOE Smart City Efforts in Columbus, Ohio  

1:30 PM- 3:15 PM  
Convention Center, 146C  
Session 369: Benefits and Challenges with NEPA Assignment (Lectern)  
  Timothy Hill  
Ohio Department of Transportation  

1:30 PM- 5:30 PM  
Marriott Marquis, Liberty J (M4)  
Transportation Education and Training Committee (ABG20)  
  Victoria Beale  
Ohio Department of Transportation  

1:30 PM- 3:15 PM  
Convention Center, Hall E  
Optimizing Advanced Driver Assistance Systems Algorithm Parameters for Maximizing Aggregated Traffic Safety and Mobility Performance in Connected-Vehicle Environment  
  Hao Liu  
University of Cincinnati  
  Heng Wei  
University of Cincinnati  
  Ting Zuo  
University of Cincinnati
1:30 PM - 3:15 PM
Convention Center, 206
Session 395: Innovations in Winter Maintenance Equipment Management and Operations (Lectern)
Assessing the Utilization of Specialty Winter Maintenance Equipment and True Truck Equivalence for Cost Analysis
Mallory Crow
University of Akron
William Schneider
University of Akron
Christopher Miller
University of Akron

1:30 PM - 3:15 PM
Convention Center, Ballroom B
Session 413: Smart and Inclusive Cities – Where is All of This Going? (Lectern)
Columbus, OH was selected as the winner of the Department’s Smart City Challenge. Columbus is one of several U.S. cities working to reshape its transportation system to become part of a fully-integrated city that harnesses the power and potential of data, technology, and creativity to reimagine how people and goods move throughout their city. Panelists will discuss the evolving Smart City ecosystem, which includes other city-oriented grant programs and partnerships across all levels of government, and the private and non-profit sectors.

3:45 PM - 5:30 PM
Convention Center, 206
Session 420: GPS and Other Advances in Travel Survey Methods (Poster)
Rebekah Straub Anderson
Ohio Department of Transportation

Thinking Outside the Box – A Strategic Approach for Right-Sizing Solutions for the SUM-76 Akron Beltway Project
Cynthia Juliano
CH2M
Evaluating the Safety Performance of Treatment: The Power of Safety Performance Function
Jiguang Zhao
CH2M
Kimberly Kolody
CH2M
Chad Polk
CH2M
James Ritter
CH2M Hill

3:45 PM - 5:30 PM
Convention Center, Ballroom B
Session 449: Access Management (Poster)
Dynamic Left-Turn Prohibitions at Signalized Intersections to Improve Street Network Efficiency
Anthony DePrator
Ohio Department of Transportation

3:45 PM - 5:30 PM
Convention Center, Hall E
Session 463: Bus Transit Research and Practices (Poster)
Bus Rapid Transit Proximity and Property Values in Cleveland, Ohio

3:45 PM - 5:30 PM
Convention Center, 143C
Session 467: Light Rail and Streetcar Safety Science and Practice (Lectern)
Understanding Pedestrian Needs at Light Rail Transit Grade Crossings
Benjamin Sperry
Ohio University
Tuesday, January 10

8:00 AM- 9:45 AM
Convention Center, Hall E

Session 507: Behavioral Processes (Poster)
Study on Joint Travel Companion Types of Multiple-Member Households in Cleveland Metropolitan Area, Ohio
Yu-jen Chen
Ohio State University
Gulsah Akar
Ohio State University

8:00 AM- 9:45 AM
Convention Center, Hall E

Session 510: Behavioral Dimensions of Travel Choice (Poster)
Gulsah Akar
Ohio State University

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

Session 511: Surveillance and Control of Sustainable and Resilient Transportation Networks (Lectern)
Estimating the Environmental Costs of Network-time Prisms for Sustainable Transportation Planning
Harvey Miller
Ohio State University

8:00 AM- 9:45 AM
Convention Center, 209A

Session 517: Bridge Scour and Curb Inlets (Lectern)
Experimental Investigation of Pier Streamlining Effect on Horseshoe Vortex Characteristics and Local Scour Under Clear-Water Conditions
Junliang Tao
University of Akron

8:00 AM- 9:45 AM
Convention Center, 209C

Session 518: Mobile Mapping Lidar: Product Accuracy and Suitability for Transportation Projects (Lectern)
Joe Cantz
Woolpert, Inc.

8:00 AM- 9:45 AM
Convention Center, 207B

Session 520: Culvert and Storm Drain Inspection and Service Performance (Lectern)
Kevin White
E. L. Robinson Engineering Company

8:00 AM- 9:45 AM
Convention Center, Hall E

Improving Street Network Efficiency by Prohibiting Left Turns at Signalized Intersections
Anthony DePrator
Ohio Department of Transportation

8:00 AM- 9:45 AM
Convention Center, Hall E

Session 537: Crash-Based Research: Wrong-Way Driving, Work Zones, Debris, Taxis, and Other Crash Situations (Poster)
Exploring Factors Contributing to Injury Severity of Drivers of Emergency Vehicles in Ohio
Deogratias Eustace
University of Dayton
Hasna Elmagri
University of Dayton
Peter Hovey
University of Dayton

8:00 AM- 9:45 AM
Convention Center, 150A

Session 546: Freight Day, Part 1: The First and Last-Mile Gap--Building Freight Transportation Expertise at the Local Level (Lectern)
Local Comprehensive Freight Planning in Central Ohio: A Look at the Rickenbacker Area Study
Dina López
Mid-Ohio Regional Planning Commission
10:15 AM- 12:00 PM
Convention Center, Hall E
Session 589: It's All About Relationships: Understanding Conflicts and Surrogates for Highway Safety Analysis (Poster)
Investigating Subsequent Safety Surrogate Measurement Affected by Connected Vehicles Technologies
Hao Liu
University of Cincinnati
Heng Wei
University of Cincinnati
Ting Zuo
University of Cincinnati

10:15 AM- 12:00 PM
Convention Center, Hall E
Session 590: Vulnerable Road Users: Analysis of Pedestrian and Bicycle Crashes (Poster)
Pedestrian and Bicyclist Influence at Stop-Controlled Intersections
John Raker
Ohio Northern University

10:15 AM- 12:00 PM
Convention Center, 143A
Session 599: Current Research in Intercity Passenger Rail Transportation (Lectern)
Synthesis of North American High-Speed Passenger Rail Ridership Forecasting
Benjamin Sperry
Ohio University

1:30 PM- 3:15 PM
Convention Center, Hall E
Session 608: Planning for Climate Change: Adaptation, Resilience, and Mitigation (Poster)
Quantifying Household Travel Carbon Emissions at Traffic Analysis Zone Level Using High-Resolution Survey Data
Zhuo Yao
University of Cincinnati
Heng Wei
University of Cincinnati
Harikishan Perugu
University of Cincinnati
Jonathan Corey
University of Cincinnati

1:30 PM- 3:15 PM
Convention Center, Hall E
Session 624: Successful Recycling and Use of Recycled Materials (Lectern)
Sustainable Remediation of Petroleum-Contaminated Sediment in Hot-Mix Asphalt Mixtures
Anastasios Ioannides
University of Cincinnati

1:30 PM- 3:15 PM
Convention Center, Hall E
Session 634: Asphalt Binder Aging, Recycling, and Rejuvenation (Poster)
Nanoscale Evaluation of Blending Zone Properties Between RAP and Virgin Asphalt Binders
Lana AbuQtaish
Ohio University
Munir Nazzal
Ohio University
Sang-Soo Kim
Ohio University
Ala Abbas
University of Akron

1:30 PM- 3:15 PM
Convention Center, Hall E
Session 648: Innovations in Timing and Operation of Traffic Signals (Poster)
Development and Evaluation of Network-wide Traffic Signal Coordination Algorithm for Improved Operational Performance
Ping Yi
University of Akron

1:30 PM- 3:15 PM
Convention Center, Hall E
Session 679: Current Young Professionals' Research in Aviation (Poster)
Analysis of Runway Excursion Factors and Behavior of Aircraft in General Aviation to Evaluate General Aviation Runway Design Standards
Euinsun Ryu
Ohio State University
Seth Young
Ohio State University
3:45 PM- 5:30 PM  
Convention Center, 152A  
Session 609: Smart Accessibility for Smart Cities (Lectern)  
Smart Columbus  
Paul Carlson  
City of Columbus

3:45 PM- 5:30 PM  
Convention Center, 152A  
Session 689: Connected Cities and Technology Integration: Challenges of Implementing Connected Vehicle Applications into Aging Urban Infrastructure (Lectern)  
Cynthia Jones  
Ohio Department of Transportation  
Smart City Challenge Update from the City of Columbus, Ohio  
Randall Bowman  
City of Columbus  
Aparna Dial  
City of Columbus  
Jennifer Gallagher  
City of Columbus

3:45 PM- 5:30 PM  
Convention Center, Hall E  
Session 692: Fresh Ideas for Statewide Multi-modal Planning: Innovative Partnerships Toward Shared Goals (Poster)  
Ohio's Active Transportation Action Team  
Jordan Whisler  
Mid-Ohio Regional Planning Commission  
Scott Phinney  
Ohio Department of Transportation

3:45 PM- 5:30 PM  
Convention Center, 101  
Session 734: Current Highway/Rail Grade Crossing Research (Lectern)  
Current Issues in Highway-Railroad Grade Crossing Hazard Ranking and Project Development  
Benjamin Sperry  
Ohio University  
Bhaven Naik  
Ohio University
6:30 AM - 8:00 AM
Convention Center, 146B
Session 777: Planning Implications of Emerging Transportation Technologies and Trends (Lectern)
The Story of Smart Columbus
Aparna Dial
City of Columbus

8:00 AM - 9:45 AM
Convention Center, Hall E
Session 780: Transportation Planning Applications (Poster)
Accessibility Planning and Vehicle Miles Traveled: Preliminary Analysis
Harvey Miller
Ohio State University

8:00 AM - 9:45 AM
Convention Center, Hall E
Session 781: Transportation Network Modeling (Poster)
Green Accessibility: Estimating the Environmental Cost of Network-Time Prisms for Sustainable Transportation Planning
Harvey Miller
Ohio State University

10:15 AM - 12:00 PM
Convention Center, Hall E
Session 821: Risk Taking and Innovation in Workforce Development and Training Activities (Lectern)
Victoria Beale
Ohio Department of Transportation

10:15 AM - 12:00 PM
Convention Center, Hall E
Session 827: Transportation Network Modeling (Poster)
Development of External and Truck Components for a Regional Travel Model
Rebekah Straub Anderson
Ohio Department of Transportation
Gregory Giaimo
Ohio Department of Transportation
Combinatorial Tour Mode Choice
Rebekah Straub Anderson
Ohio Department of Transportation
Gregory Giaimo
Ohio Department of Transportation

3:45 PM - 5:30 PM
Convention Center, 144C
Session 761: Evolving Airport Terminal Security Practices: New Initiatives to Meet Modern-day Demands (Lectern)
I. Richmond Nettey
Kent State University

3:45 PM - 5:30 PM
Convention Center, Hall E
Session 742: Law Enforcement and Traffic Safety: Evaluation of Countermeasures, Automated Enforcement, and Geospatial Data (Poster)
Comparison of Traditional Corridor-Based Enforcement with Route Optimization of Hot Spot Analysis
William Schneider
University of Akron

10:15 AM - 12:00 PM
Convention Center, Hall E
Session 830: Transportation Demand Forecasting Poster Mega-session, Part 2 (Poster)
Empirical Demonstration of Traffic Flow Estimates from Repeated Passes of a Mobile Sensing Platform
Mark McCord
Ohio State University
Rabi Mishalani
Ohio State University
Benjamin Coifman
Ohio State University

Wednesday, January 11
10:15 AM- 12:00 PM
Convention Center, 146B
Session 831: Critical Infrastructure Applications (Lectern)
Gregory Giaimo
Ohio Department of Transportation

10:15 AM- 12:00 PM
Convention Center, Hall E
Session 852: Bicyclist Travel Behavior (Poster)
Factors Affecting Bicycle Commuting: The Role of Individual Attitudes and Neighborhood Environments
Yujin Park
Ohio State University
Gulsah Akar
Ohio State University
The Relationship between Bicycling and the Built Environment Revisited: New Evidence from California
Kailai Wang
Ohio State University

12:15 PM- 4:00 PM
Marriot Marquis, Archives (M4)
Travel Survey Methods Committee (ABJ40)
Rebekah Straub Anderson
Ohio Department of Transportation

2:30 PM- 4:00 PM
Convention Center, 154
Session 863: Innovations in Traffic Data Analytics (Lectern)
Municipal Vehicles as Sensor Platforms to Monitor Roadway Traffic
Benjamin Coifman
Ohio State University
Keith Redmill
Ohio State University
Rabi Mishalani
Ohio State University
Mark McCord
Ohio State University

2:30 PM- 6:00 PM
Marriott Marquis, Magnolia (Mezz)
Subsurface Soil-Structure Interaction Committee (AFS40)
Kevin White
E. L. Robinson Engineering Company

4:30 PM- 6:00 PM
Convention Center, 102B
Session 889: Pedestrian Planning and the Built Environment (Lectern)
Comparing the Appropriate Geographic Region for Assessing Built Environmental Correlates with Walking Trips Using Longitudinal Data
Calvin Tribby
Ohio State University
Harvey Miller
Ohio State University