Session Schedule

Sunday January 12
- Workshops
- New Attendee Welcome Session
- Exhibit Hall Opening and Reception

Monday January 13
- Workshops
- Posters
- Exhibits

Tuesday January 14
- Workshops
- Posters
- Exhibits

Wednesday January 15
- Workshops
- Posters
- Exhibits

Thursday January 16
- Workshops
- Poster Sessions

Chairman’s Luncheon

Source: trb.org
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Sunday, January 12

9:00 a.m. – 12:00 p.m.
Marriott, Maryland A
Workshop 109: Motorcycle Licensing Systems and Their Effect on Rider Participation in Renewal Training and Safety Outcomes, Part 1
Licensing Approaches for Older Riders and Returning Riders (#3 of 4)
William Henry Schneider
University of Akron

9:00 a.m. – 12:00 p.m.
Shoreham, Palladian
Workshop 121: Aviation 101: How to Get Involved and Make a Difference
Panel Discussion: General Introduction to the Aviation Industry (#1 of 3)
Seth Bennett Young
The Ohio State University

9:00 a.m. – 12:00 p.m.
Hilton, Columbia Hall 6
Workshop 133: Big Data and Open Data for Transportation Services and Public Engagement
Panel 1: Open Data and Civic Hacking (#2 of 9)
Harvey J. Miller
The Ohio State University

9:00 a.m. – 12:00 p.m.
Hilton, Lincoln West
Workshop 147: Role of Climate Resilience in Shaping Sustainable Transport Systems of the Future, Part 1
Marie Venner (Presiding)
Venner Consulting
9:00 a.m. – 12:00 p.m.  
**Hilton, Columbia Hall 8**

**Workshop 151: The Next 50 Years in Travel Analysis: What We Don’t Know but Need to Know**
What Subject Issues Will We Face?  
What Will “Clients” Ask of Us?  
(#3 of 11)  
Rebekah Straub Anderson  
Ohio DOT

9:00 a.m. – 12:00 p.m.  
**Hilton, Columbia Hall 9**

**Workshop 153: Transportation Noise and Historic Properties**  
Transportation Noise and Historic Properties: Section 106 and Highway Noise: Case Study (#6 of 6)  
Karel Cubick  
MS Consultants, Inc.

1:30 p.m. – 4:30 p.m.  
**Marriott, Virginia C**

**Workshop 158: Applications of the Systemic Approach to Safety**  
Incorporating Systemic Safety in Existing Programs (#5 of 8)  
Victoria F. Beale  
Ohio DOT

1:30 p.m. – 4:30 p.m.  
**Marriott, Thurgood Marshall East**

**Workshop 160: Characterization of Foundations of Bridges and Other Structures for Reuse**  
Ohio DOT Experience with Foundation Reuse (#8 of 9)  
Jawdat Siddiqi  
Ohio DOT

1:30 p.m. – 4:30 p.m.  
**Marriott, Washington B6**

**Workshop 168: Nonnuclear Methods for Compaction Control of Unbound Materials**  
Current Practices for Compaction Control of Unbound Materials (#2 of 6)  
Munir D. Nazzal  
Ohio University

1:30 p.m. – 4:30 p.m.  
**Hilton, Columbia Hall 7**

**Workshop 197: Planning for 2015 National Household Travel Survey**  
Panel Discussion: Incorporating the NHTS into Advanced Travel Demand Models (#8 of 8)  
Gregory Giaimo  
Ohio DOT

1:30 p.m. – 4:30 p.m.  
**Hilton, Lincoln West**

**Workshop 201: Role of Climate Resilience in Shaping Sustainable Transport Systems of the Future, Part 2**  
Marie Venner (Presiding)  
Venner Consulting  
Cost-Effective Action for Resilience: Lessons from Departments of Transportation in the United States and Abroad (#1 of 7)  
Marie Venner  
Venner Consulting
8:30 a.m. – 10:15 a.m.
Marriott, Salon 2
Session 247: Alternative Project Delivery Methods: State of the Practice and Beyond
(Poster Session)
(A08) Geotechnical Requirements in Design-Build Selection Process
Ghada M. Gad
Bowling Green State University

8:30 a.m. – 10:15 a.m.
Shoreham, Blue Room Foyer
Session 255: Current Research in Urban Freight Transportation (Poster Session)
(01) Public-Sector Freight Interventions in Metropolitan Areas, 2: Pricing, Logistics, and Demand Management
Suzann Rhodes
CDM Smith
Daniel Gene Haake
Mid-Ohio Regional Planning Commission

8:30 a.m. – 10:15 a.m.
Hilton, International Center
Session 257: Community Impact Assessment: Methods, Tools, and Outcomes (Poster Session)
(J20) Increasing Community Access Through Moderate Transit Stop Consolidation
Nate Wessel
University of Cincinnati
Michael John Widener
University of Cincinnati

10:15 a.m. – 12:00 p.m.
Hilton, Columbia Hall 8
Session 296: Traffic Data Inputs for Pavement Design and Damage Cost Estimates (Lectern Session)
Effect of Traffic Load Input Level on MEPDG Flexible Pavement Performance Predictions (#2 of 4)
Ala Rebhi Abbas
University of Akron
Andrew Frankhouser
University of Akron

10:45 a.m. – 12:30 p.m.
Marriott, Salon 2
Session 299: Concrete Properties: Research on Concrete Used in Bridge Applications (Poster Session)
(B18) Development, Field Testing, and Implementation of Improved Bridge Parapet Designs
Amy Kalabon
Cleveland State University
Lauren Hedges
Cleveland State University
Norbert Joseph Delatte
Cleveland State University
10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

**Session 300: Correlation of Soil Properties and Evaluation of Unknown Foundations for Bridges** (Poster Session)

(B12) Bayesian Approach for Statistical Characterization of Soil Variability Using Standard Penetration Test Data

Haijian Fan
University of Akron

Robert Liang
University of Akron

10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

**Session 302: From Investigation to Design: Ways to Make the Right Choice at the Right Time** (Poster Session)

(B03) Reliability-Based Design for Slope Stabilization Using Both Anchors and Drilled Shafts

Lin Li
University of Akron

Robert Liang
University of Akron

10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

**Session 307: Recent Research Related to Concrete Properties** (Poster Session)

(C17) Using Ultrasonic Pulse Velocity to Predict Properties and Performance of Previous Concrete

Kamran Amini
Cleveland State University

Andrew Lesak
Cleveland State University

Arjunveer Sohal
Cleveland State University

Jeremy Adato
Cleveland State University

Norbert Joseph Delatte
Cleveland State University

10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

**Session 309: Seasonal and Climate Effects on Pavements** (Poster Session)

(A04) Predicting Phase Composition Curve in Frozen Soils Using Index Properties: Physicoempirical Approach

Xiong Yu
Case Western Reserve University

10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

**Session 311: Thermal Properties of Pavements, Reflective Coatings, and Evaluation of Urban Climate Interaction** (Poster Session)

(C07) Innovative Thermochromic Asphalt Binder for Pavement Thermal Management: Characterization and Computational Simulation

Jianying Hu
Case Western Reserve University

Xiong Yu
Case Western Reserve University
10:45 a.m. – 12:30 p.m.
Hilton, International Center
Session 323: Current Issues in Transportation Economics
(Poster Session)
(C05) Transportation Infrastructure Usage and Household Welfare
Jeffrey J. Eloff  
University of Toledo
Oleg A. Smirnov  
University of Toledo
Peter S. Lindquist  
University of Toledo

1:30 p.m. – 3:15 p.m.
Marriott, Maryland A
Session 343: Surviving Challenges to and Improving Best Value Procurements
(Lectern Session)
Panel Discussion (#1 of 1)
Eric Kahlig  
Ohio DOT

1:30 p.m. – 3:15 p.m.
Hilton, Columbia Hall 5
Session 358: Public Transportation Marketing and Customer Loyalty and Satisfaction
(Lectern Session)
Customer Loyalty Differences Between Captive and Choice Transit Riders (#3 of 4)
Valerie Webb  
Greater Cleveland Regional Transit Authority

2:00 p.m. – 3:45 p.m.
Hilton, International Center
(Poster Session)
(J14) Brain-Computer Interface Application in Smart Vehicle Design
Ye Sun  
Case Western Reserve University
Abidemi Bolu Ajiboye  
Case Western Reserve University
Brian Murphy  
Case Western Reserve University
Xiong Yu  
Case Western Reserve University

2:00 p.m. – 3:45 p.m.
Hilton, International Center
Session 381: Innovations in Vehicle Detection (Poster Session)
(E09) Prototype of Video-Based Vehicle Classification System Using Vision-Based Axle Detection
Zhuo Yao  
University of Cincinnati
Heng Wei  
University of Cincinnati
Xinhua Xiao  
University of Cincinnati
Hao Liu  
University of Cincinnati
Hui Ren  
University of Cincinnati

(F02) Vehicle Length Measurement and Classification in Congested Freeway Traffic
Lan Wu  
The Ohio State University
Benjamin Coifman  
The Ohio State University
3:45 p.m. – 5:30 p.m.
Marriott, Truman
Subcommittee Meeting:
Digital Billboards
Statistical Analysis of the Traffic Safety Impacts of On-Premise Digital Signs
(#1 of 2)
Includes Ohio Locations

7:30 p.m. – 9:30 p.m.
Marriott, Salon 2
Session 445: Intelligent Transportation System Technology Development and Connected Vehicles: System Control, Safety, and Evaluation
(Poster Session)
(A04) Development of Traffic Simulator-Based Safety Assessment Framework Incorporating Driver Warning, GPS/INU, and V2V/V2I
Siavash Hosseiny-Alamdary
The Ohio State University
Dorota Grejner-Brzezinska
The Ohio State University

7:30 p.m. – 9:30 p.m.
Marriott, Salon 2
Session 454: Simulation and Measurement of Driver Performance (Poster Session)
(D01) Design Considerations for Driving Simulation Practice Scenarios
Jacqueline M. Jenkins
Cleveland State University
(D03) Comparing Two Driving Simulation Practice Scenarios for Steering and Speed Control
Jacqueline M. Jenkins
Cleveland State University
Nancy Seck
Cleveland State University

7:30 p.m. – 9:30 p.m.
Hilton, Lincoln East
Session 466: Commuting, Expenditures, and Equity (Lectern Session)
Commuting, Job, Clusters, and Travel Burdens: An Analysis of Spatially and Socioeconomically Disaggregate LEHD Data (#2 of 4)
Daniel Schleith
University of Cincinnati

7:30 p.m. – 9:30 p.m.
Hilton, Georgetown East
Session 470: Maintenance and Operations Management for Climate Change: Department of Transportation State of the Practice (Lectern Session)
Marie Venner (Presiding)
Venner Consulting

7:30 p.m. – 9:30 p.m.
Hilton, Jefferson East
Session 476: Stated-Preference and Best-Worst Surveys (Lectern Session)
Rebekah Straub Anderson (Presiding)
Ohio DOT
Tuesday, January 14

8:00 a.m. – 9:45 a.m.
Marriott, Virginia A
Session 479: Application of Geophysical Survey Methods in Geoengineering Practice (Lectern Session)
Application of Cluster Analysis for Soil Corrosivity Assessment (#3 of 4)
Ayako Yajima
University of Akron
Hui Wang
University of Akron
Homero Castaneda
University of Akron
Robert Liang
University of Akron

8:00 a.m. – 9:45 a.m.
Hilton, L’Enfant
Subcommittee Meeting: Computational Transportation and Society (ABJ30(2))
Harvey J. Miller (Presiding)
The Ohio State University

8:00 a.m. – 9:45 a.m.
Shoreham, Regency Ballroom
Session 493: Impacts of Tire and Truck Loads on Pavement Performance (Lectern Session)
Influence of Tire Inflation Pressure on Measured Pavement Strain Responses and Predicted Distress (#2 of 4)
Results from U.S. Route 23 Test Road in Ohio

8:00 a.m. – 9:45 a.m.
Hilton, Columbia Hall 5
Session 499: Advancing Department of Transportation Practice in Knowledge Management (Lectern Session)
Ten Facets of Knowledge Management (#2 of 4)
Denise A. D. Bedford
Kent State University

8:00 a.m. – 9:45 a.m.
Hilton, Lincoln East
Session 504: Historic Covered Bridges: Three Perspectives on Preservation and Education (Lectern Session)
Long-Term Behavior of Posttensioned Wooden Howe Trusses of Moose Brook Bridge, New Hampshire (#2 of 3)
Dario Gasparini
Case Western Reserve University

8:30 a.m. – 10:15 a.m.
Marriott, Salon 2
Session 513: Advances in Chemicals, Technology, and Asset Management for Winter Maintenance (Poster Session) (C14)
Winter Maintenance Asset Allocation Based on Geographic Information System Snowplow Route Optimization Model
William A. Holik
University of Akron
William Henry Schneider
University of Akron
Session 521: Trucking Industry Research (Poster Session)
(23) Aggregate Truck Queuing Time Relations at the Ambassador Bridge and Blue Water Bridge Border Crossing Facilities
Mark R. McCord
The Ohio State University
Nicole L. Sell
The Ohio State University
Jiaqi Liu
The Ohio State University

Session 533: Fifty Years of Culverts and Soil-Structure Interaction: What Have We Learned, and What Does the Future Hold? (Lectern Session)
Growth of Plastic Pipe Use in Transportation Applications (#4 of 6)
James Bloomfield Goddard
JimGoddard3, LLC

Session 534: Fifty Years of Traffic Flow Theory: Achievements and Challenges (Lectern Session)
Jam Occupancy and Other Lingering Problems with Empirical Fundamental Diagrams (#4 of 8)
Benjamin Coifman
The Ohio State University

Session 537: Speed Monitoring, Traffic Calming, and GIS Applications for Law Enforcement Agencies, Researchers, and Engineers (Lectern Session)
Case Study Evaluation of Saturation and Corridor Enforcement Patrols (#4 of 4)
Alexander R. Maistros
University of Akron
William Henry Schneider
University of Akron
Brandon A. Stakleff
University of Akron
Rick Beverley
Ohio Department of Public Safety

Session 548: Roadway Departure Risk (Lectern Session)
Roadway Characteristics Associated with Motorcycle Crashes into Longitudinal Barriers and Their Influence on Rider Injury (#2 of 4)
Used Detailed Roadway Data From Ohio to Analyze Motorcycle Crashes

Session 562: Alternative Safety Performance Indicators: Advancing the Frontier (Poster Session)
Development and Validation of Vehicle Dynamics-Integrated Traffic Safety Simulation Environment for Enhanced Surrogate Safety Measures
Sage M. Wolfe
The Ohio State University
10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

Session 563: Current Topics in Research to Improve Safe Mobility for Older Persons
(Poster Session)
(D11) Logit and Case-Based Analysis of Drivers’ Age as Contributing Factor for Fatal Traffic Crashes on Highways and State Roads in Florida

Bhuiyan M. Alam
The University of Toledo

10:45 a.m. – 12:30 p.m.
Marriott, Salon 2

Session 566: Regional Transportation Systems Management and Operations (8)
(Poster Session)
(B14) Review of Traffic Management Center Practices for Contemporary Technological and Service Improvements

Traffic Management Center Best Practices, Including Ohio

10:45 a.m. – 12:30 p.m.
Shoreham, Blue Room Foyer

Session 569: What’s New in Context-Sensitive Solutions: Case Studies (Poster Session)
(02) Sustainable Redevelopment in a Floodplain

John Deatrick
City of Cincinnati

10:45 a.m. – 12:30 p.m.
Hilton, International Center

Session 572: Emerging Research in Health and Transportation (Poster Session)
(G09) Spatiotemporal Accessibility to Supermarkets Using Public Transit: Interaction Potential Approach in Cincinnati, Ohio

Michael John Widener
University of Cincinnati

10:45 a.m. – 12:30 p.m.
Hilton, International Center

Session 573: Environmental Analysis in Transportation (Poster Session)
(B03) Cleveland Opportunity Corridor Project Reader-Friendly Environmental Impact Statement

Erica L. Schneider
Ohio DOT

10:45 a.m. – 12:30 p.m.
Hilton, International Center

Session 576: Transportation and Air Quality (Poster Session)
(K02) Modeling and Evaluating Short-Term On-Road PM2.5 Emission Factor Using Different Traffic Data Sources

Hao Liu
University of Cincinnati
Heng Wei
University of Cincinnati
Zhuo Yao
University of Cincinnati
Hui Ren
University of Cincinnati
Qingyi Ai
University of Cincinnati
1:30 p.m. – 3:15 p.m.
Marriott, Maryland A

Session 582: Innovations in Geometric Design Using Operational and Reliability-Based Analysis Methods (Lectern Session)
Geometric and Operational Improvements at Continuous-Flow Intersections to Enhance Pedestrian Safety (#3 of 4)

Angela Coates
University of Akron
Ping Yi
University of Akron
Peng Liu
University of Akron

1:30 p.m. – 3:15 p.m.
Marriott, Virginia A

Session 587: Seasonal Climatic Effects on Infrastructure (Lectern Session)
Computer Simulations of Coupled Thermohydromechanical Processes in Frozen Ground (#4 of 4)

Xiong Yu
Case Western Reserve University

1:30 p.m. – 3:15 p.m.
Marriott, Delaware A

Session 588: Signing and Pavement Marking Materials (Lectern Session)
Use of High-Intensity Reflective Sheeting in Lieu of External Lighting of Overhead Roadway Signs in Florida (#2 of 4)

Fan Ye
Ohio Northern University

1:30 p.m. – 3:15 p.m.
Hilton, Lincoln East

Session 600: Artificial Intelligence Tools for Freeway Applications (Lectern Session)
A Hybrid Short-Term Traffic Speed Forecasting Model Through Empirical Mode Decomposition (EMD) and Auto-regressive Integrated Moving Average (ARIMA) (#3 of 5)

Heng Wei
University of Cincinnati

1:30 p.m. – 3:15 p.m.
Hilton, Columbia Hall 7

Session 603: How Does Gender Influence Travel Attitudes, Patterns, and Perspectives on Crime? (Lectern Session)
The Role of Gender and Attitude on Public Transportation Use (#4 of 5)

Mi Namgung
The Ohio State University
Gulsah Akar
The Ohio State University

1:30 p.m. – 3:15 p.m.
Hilton, International East

Session 605: Knowledge Management of Department of Transportation Resilience Planning and Operations Management (Lectern Session)
Marie Venner (Presiding)
Venner Consulting
1:30 p.m. – 5:30 p.m.
Hilton, Monroe
Committee Meeting: Transportation Planning for Small and Medium-Sized Communities (ADA30)
   Elizabeth B. Rushley (Presiding)
   Lawhon & Associates, Inc.

2:00 p.m. – 3:45 p.m.
Marriott, Salon 2
Session 624: Warm-Mix Asphalt (Poster Session)
(C15) Low-Temperature Characterization of Foamed Warm-Mix Asphalt Produced by Water Injection
   Ahmad A Alhasan
   University of Akron
   Ala Rebhi Abbas
   University of Akron
   Ayman W Ali
   University of Akron
   Munir D. Nazzal
   Ohio University
   Sang-Soo Kim
   Ohio University
   David B. Powers
   Ohio DOT

2:00 p.m. – 3:45 p.m.
Hilton, International Center
Session 636: Parking Revolution from A(set Management) to Z(oning) (11) (Poster Session)
(H05) Proactive Approach to Minimize Parking Search Time on University Campuses
   Ali Moradkhany
   University of Akron
   Ibrahim Mahmoud Shatnawi
   University of Akron
   Ping Yi
   University of Akron

3:45 p.m. – 5:30 p.m.
Shoreham, Governors
Committee Meeting: Aviation System Planning (AV020)
   Seth Bennett Young (Presiding)
   The Ohio State University

3:45 p.m.– 5:30 p.m.
Marriott, Thurgood Marshall South
Session 648: Recent Developments in End Result Specifications for Concrete Pavement Construction (Lectern Session)
   Timothy R. Sturges (Presiding)
   Ohio DOT

3:45 p.m. – 5:30 p.m.
Hilton, Jefferson East
Session 667: Programmatic Approaches to Environmental and Historic Preservation Review (Lectern Session)
   Panel Discussion (#6 of 6)
   Erica L. Schneider
   Ohio DOT

4:15 p.m. – 6:00 p.m.
Hilton, International Center
Session 689: Innovative Research on Transportation and Land Use (Poster Session)
(D08) Analyzing Scale Independence in Jobs-Housing and Commute Efficiency Metrics
   Ningchuan Xiao
   The Ohio State University
Session 696: Cool Pavements: Thermal Properties, Field Experiments, and Modeling Techniques (Lectern Session)
Characterization of Temperature-Dependent Thermal Properties of Thermochromic Asphalt Binders (#2 of 4)
Jianying Hu
Case Western Reserve University
Nandula Wanasekara
Case Western Reserve University
Xiong Yu
Case Western Reserve University

7:30 p.m. – 9:30 p.m.
Marriott, Salon 2

Session 702: Intelligent Transportation Systems in Practice: Deployment, Case Studies, and System Management and Evaluation (Poster Session)
(A19) Moving Toward the IT Highway: Linking Public and Private Investments in Intelligent Transportation Systems to Supply Chain Performance and Livability
Sarah E. Schafer
University of Toledo
Peter S. Lindquist
University of Toledo

Session 707: Roadway and Signalized Intersection Safety Through Law Enforcement Programs, Automated Enforcement, and Vehicle Detection (Poster Session)
(C18) Low-Manpower Checkpoints: Efficiency and Optimization Case Study of OVI Enforcement Tools
Alexander R. Maistros
University of Akron
William Henry Schneider
University of Akron
Rick Beverley
Ohio Department of Public Safety

7:30 p.m. – 9:30 p.m.
Marriott, Salon 2

Session 708: Roundabouts from A to Z (Poster Session)
(E08) Adaptive Metering for Priority-Controlled Circular Intersections with Unbalanced Flows
Vinod Bolla
University of Akron
Ibrahim Mahmoud Shatnawi
University of Akron
Ibrahim Khliefat
University of Akron
7:30 p.m. – 9:30 p.m.  
Marriott, Salon 2

Session 710: Truck and Bus Safety (Poster Session)  
(D17) Contributing Factors to Truck Type, Alcohol Use, and Seatbelt Use During Single Vehicle Truck Crashes in the State of Ohio  
William A. Holik  
University of Akron  
Alexander R. Maistros  
University of Akron  
William Henry Schneider  
University of Akron

7:30 p.m. – 9:30 p.m.  
Shoreham, Diplomat

Session 714: Improving Freight Transportation Efficiency in Metropolitan and Urban Settings (Lectern Session)  
Public-Sector Freight Interventions in Metropolitan Areas, 1: Governance, Supply Side, and Traffic Operations (#1 of 4)  
Suzann Rhodes  
CDM Smith  
Daniel Gene Haake  
MORPC

7:30 p.m. – 10:00 p.m.  
Marriott, Washington B2

Committee Meeting: Subsurface Soil-Structure Interaction (AFS40)  
Kevin White (Presiding)  
E.L. Robinson Engineering

7:30 p.m. – 9:30 p.m.  
Hilton, Georgetown East

Session 724: Managing Information and Knowledge: Tools of the Trade (Lectern Session)  
Topology of Knowledge Management and Information in the Transportation Sector (#1 of 4)  
Denise A. D. Bedford  
Kent State University
Wednesday, January 15

7:00 a.m. – 8:00 a.m.
Hilton, Independence

Subcommittee Meeting:
Research (ABJ00(1))
Harvey J. Miller (Presiding)
The Ohio State University

8:00 a.m. – 9:45 a.m.
Hilton, Northwest

Subcommittee Meeting:
Statewide Travel Demand Forecasting (ADA10) & (ADB40)
Gregory Giaimo (Presiding)
Ohio DOT

8:00 a.m. – 9:45 a.m.
Marriott, Thurgood Marshall North

Session 741: Traffic Signal Control and Optimization for Multimodal Intersections (Lectern Session)
Signal Progression Impacts on Transit Buses as Travel Time Probes (#1 of 4)
Benjamin Coifman
The Ohio State University

8:00 a.m. – 9:45 a.m.
Hilton, Columbia Hall 6

Session 753: Cycling and the Built Environment (Lectern Session)
StreetSeen: Factors Influencing the Desirability of a Street for Bicycling (#4 of 5)
Jennifer Evans-Cowley
The Ohio State University
Gulsah Akar
The Ohio State University

8:00 a.m. – 9:45 a.m.
Hilton, Lincoln West

Session 756: Model Integration by Parts of the Research Community (Lectern Session)
Scenario-Based Carbon Footprint Inventory Tool for Urban Sustainable Development Decision Support: Cincinnati Case Study (#2 of 5)
Zhuo Yao
University of Cincinnati
Heng Wei
University of Cincinnati
Xinhao Wang
University of Cincinnati
Hao Liu
University of Cincinnati
8:00 a.m. – 12:00 p.m.
Marriott, Virginia C
Committee Meeting: Construction of Bridges and Structures (AFH40)
Measuring Displacement of Tall Concrete Columns During Construction
Jeremiah Morrow Bridge (#1 of 2)
Mehdi Norouzi
University of Cincinnati
Victor J. Hunt
University of Cincinnati
Arthur J. Helmicki
University of Cincinnati
Seyedowjan Hashtroodi
University of Toledo
Douglas Nims
University of Toledo

8:30 a.m. – 10:15 a.m.
Marriott, Salon 2
Session 762: Crash Severity Analysis (Poster Session)
(B02) Comparison of Factors Affecting Injury Severity in Angle Collision by Fault Status Using Bivariate Ordered Probit Model
William Henry Schneider
University of Akron
(B14) Rear-End Crash Casualty Severity Analysis using Multinomial Logit Model and Bayesian Network
Heng Wei
University of Cincinnati

8:30 a.m. – 10:15 a.m.
Marriott, Salon 2
Session 764: Operational Effects of Geometric Design (Poster Session)
Larry Francis Sutherland (Presiding)
Parsons Brinckerhoff

8:30 a.m. – 10:15 a.m.
Marriott, Salon 2
Session 767: Safety Data and Methods Madness (Poster Session)
(D06) Using Decision Tree Modeling to Analyze Factors Contributing to Injury and Fatality of Run-Off-Road Crashes in Ohio
Deogratias Eustace
University of Dayton
Omar Eid Almutairi
University of Dayton
Peter Hovey
University of Dayton

8:30 a.m. – 10:15 a.m.
Shoreham, Blue Room Foyer
Session 769: Hydraulics and Water Quality in the Roadway Environment (Poster Session)
(03) Design and Application of Field Bridge Scour Monitoring Sensor Based on Time Domain Reflectometry
Junliang Tao
University of Akron
Xiong Yu
Case Western Reserve University
8:30 a.m. – 10:15 a.m.  Hilton, International Center

**Session 777: Transportation Planning Applications**
(Poster Session)
(J07) Building Open-Source Tools to Perform Quality Control Checks on Transit Onboard Survey Data  
*Andrew Rohne*
OH-KY-IN Regional Council of Gov’t  
*(J17)* Cleveland GPS Household Travel Survey: Survey Design and Secondary Uses of Data  
*Jeremy Alexander Wilhelm*  
Westat Inc.

2:30 p.m. – 4:00 p.m.  Marriott, Virginia A

**Session 821: Unmanned Aerial System Technology for Highway Transportation Applications** (Lectern Session)
OH, MN, and IN Departments of Transportation Experiences in Using Unmanned Aerial Vehicles (#2 of 4)  
*Rachel Lewis*  
Ohio DOT  
*Fred Judson*  
Ohio DOT

2:30 p.m. – 4:00 p.m.  Shoreham, Empire

**Session 826: Culvert Materials and Energy Mechanics** (Lectern Session)
*John Owen Hurd* (Presiding)  
Retired—Ohio DOT

2:30 p.m. – 4:00 p.m.  Hilton, Columbia Hall 7

**Session 834: Intercity Buses from the Heartland to the Big City** (Lectern Session)
Examining the Characteristics of Intercity Bus Passengers in Michigan (#1 of 3)  
*Benjamin R. Sperry*  
Ohio University

2:30 p.m. – 4:00 p.m.  Hilton, Columbia Hall 8

**Session 837: Statewide Impact of Disasters, Transit, and Land Use: Cool New Stuff You Can Look at Now That You Have a Statewide Travel Model** (Lectern Session)
*Gregory Giaimo* (Presiding)  
Ohio DOT

4:30 p.m. – 6:00 p.m.  Shoreham, Blue Room

**Session 851: Program for Quieter Pavement in the United States** (Lectern Session)
Quieter Pavement Program in Ohio (#5 of 7)  
*Noel Alcala*  
Ohio DOT  
*Brain L. Schleppi*  
Ohio DOT
8:00 a.m. – 12:00 p.m.
Marriott, Thurgood Marshall East
Workshop 866: Ahead of the Curve: Advancing the Management of Research and Innovation in Transportation--Engaging the Research and Innovation Community in the Development of the Initiative
Cynthia Gerst (Presiding)
Ohio DOT
Framework Reaction and Responses: Breakout Group Discussion and Recommendations (#4 of 9)
Cynthia Gerst
Ohio DOT
Panel Discussion: Moving Forward and Facilitated Discussion with Task Team Leaders Barbara T. Harder, facilitator (#7 of 9)
Victoria F. Beale
Ohio DOT

10:15 a.m. – 12:00 p.m.
Marriott, Maryland C
Workshop 875: Measuring and Enhancing Resilience of Critical Transportation Infrastructure
Knowledge Management Initiatives Related to Climate Change Risk and Improving Resilience to Extreme Weather Events: Examples from Washington State, Massachusetts, Hawaii, and Delaware (#5 of 5)
Marie Venner
Venner Consulting
<table>
<thead>
<tr>
<th>Subject Areas of Interest</th>
<th>Hotel Location</th>
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<td>Administration and Management</td>
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<td>Aviation</td>
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<td>Bridges and Other Structures</td>
<td>Marriott &amp; Shoreham</td>
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<td>Construction</td>
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<td>Data and Information Technology</td>
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<td>Design</td>
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<td>Economics</td>
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<td>Society</td>
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