

PROGRAM OVERVIEW



ASCE TRANSPORTATION CONFERENCES 2023

June 14-17, 2023 | Hilton Austin, Austin, TX

In partnership with Texas Department of Transportation



International
Conference on
Transportation
and
Development

International
Airfield and
Highway
Pavements
Conference



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#PAVEMENTS23 | www.pavementsconference.org

ASCE TRANSPORTATION CONFERENCES 2023

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THURSDAY, JUNE 15, 2023

7:30 AM – 8:30 AM	Continental Breakfast in the Exhibit Hall						
8:30 AM – 10:00 AM	P1 Opening Super Plenary , <i>Austin Grand Ballroom Salon HJK</i> Reshaping Our Country: A Once-in-a-Generation Opportunity for Transportation Leaders						
10:00 AM – 10:30 AM	Networking Break in the Exhibit Hall						
	TRACK A Room 408 Autonomous Vehicles, Artificial Intelligence — Internet of Things	TRACK B Room 412 Infrastructure Systems: Management, Sustainability, & Financing	TRACK C Room 615-A People Mobility & Infrastructure	TRACK D Room 615-B Multimodal Passenger & Goods Movement	TRACK E Room 406 Safety & Workforce Development	TRACK F Room 414 Uncrewed Aerial Systems	TRACK G Room 417-AB Transportation Planning
10:30 AM – 12:00 PM	A1 CAV Data-Empowered Traffic System Operation Innovations	B1 Infrastructure Systems in the Context of Electric Vehicle Technology	C1 Transit Challenges and Issues Related to Rapidly Growing Metropolitan Areas	D1 Planning and Evaluating Community Impacts of New Freight Paradigms	E1 TxDOT: All Hands on Deck to #End the Streak	F1 UAS in Transportation Infrastructure Systems –	G1 Pedestrian and Bicycle Facility Operation and Safety
12:00 PM – 1:00 PM	Lunch in the Exhibit Hall						
1:00 PM – 2:30 PM	P3 STATE DOT PLENARY , <i>Austin Grand Ballroom Salon HJK</i> From Funding to Technology: DOTs Discuss the Comprehensive Impact of the IIJA on Transportation Infrastructure						
2:30 PM – 3:00 PM	Networking Break in the Exhibit Hall						
3:00 PM – 4:30 PM	A2 Advances in Machine Learning Methods for Transportation Innovation	B2 Financing Innovations and Considerations in the Traditional and Emerging Transportation Environments	C2 Advancing Railway Infrastructure Inspection with Technology	D2 Advancements in Mobility on Demand and as a Service (MODaaS)	E2 Factors Influencing Safety and Traffic Control Strategies and Features to Improve Safety and Operation in Highway Work Zones	F2 UAS in Transportation Infrastructure Systems – Part 2	G2 Advancing Transportation for All: Integrating Equity & Accessibility
4:30 PM – 6:00 PM	Zhanmin Zhang Welcome Reception & Technical Committee Expo in the Exhibit Hall						

FRIDAY, JUNE 16, 2023

7:30 AM – 8:30 AM	Continental Breakfast in the Exhibit Hall				
8:30 AM – 10:00 AM	P4 ICTD Opening Plenary , <i>Austin Grand Ballroom Salon HJK</i> The Transportation-Energy Nexus: The March Toward Sustainable and Resilient Systems				
10:00 AM – 10:30 AM	Networking Break in the Exhibit Hall				
10:30 AM – 12:00 PM	A3 CAV-Enabled Control Optimization through Simulation Infrastructure Integration	B3 The Benefits of BIM in Highway Infrastructure Design & Construction	C3 Transit Oriented Developments and Other Approaches to Deploy Transit Services	D3 Concepts for the Planning, Analysis and Design of Traffic Control Elements and Systems	E3 Workforce Development during Changing Times
12:00 PM –1:15 PM	P5 T&DI Awards Luncheon , <i>Austin Grand Ballroom Salon HJK3</i>				
1:30 PM – 3:00 PM	A4 AI-Empowered Sensing and Visualization in Transportation	B4 Cost Engineering and Pricing	C4 Technology to Improve Highway-Rail Grade Crossing Safety	D4 New Technology in Freight Deliveries	E4 Identifying High Hazard Conditions and Measures to Improve Roadway Safety
3:00 PM – 3:30 PM	Networking Break in the Exhibit Hall				
3:30 PM – 5:00 PM	A5 Intelligent Infrastructure Management	B5 Path to Transportation Decarbonization: Targets and Metrics	C5 Deploying Automated Mobility	D5 Mega and Transformative Aviation Programs and Projects	E5 TxDOT: Rack ‘em, Stack ‘em and Git ‘er Done!
5:00 PM – 6:00 PM	ICTD and Pavements Poster Reception , <i>Governor’s Ballroom Salon ABC</i>				

SATURDAY, JUNE 17, 2023

7:30 AM – 8:00 AM	Continental Breakfast in Austin Grand Ballroom, <i>Salon FG</i>				
8:00 AM – 9:30 AM	A6 Bike/Ped: Elements of Pedestrian and Bicycle Facility Planning and Design	B6 Infrastructure Systems: Data, Performance and Decision-Support Tools	C6 Current and Future Prospects of Automated Transit Systems	D6 Future of Aviation Landscape	E6 TxDOT: Doing What it Takes to Accelerate Connected & Autonomous Transportation
9:30 AM – 9:45 AM	Break				
9:45 AM – 11:15 AM	A7 Sensors and Data in Transportation Applications	B7 Innovative Technologies for Greener Transportation	C7 Automated People Mover (APM) Industry Update	D7 Characteristics and Design of Traffic Control Devices and Strategies	E7 Employee Learning, Development & Safety
11:15 AM – 11:30 AM	Break				
11:30 AM – 12:15 PM	P6 Closing Plenary , <i>Austin Grand Ballroom Salon HJK</i>				
2:00 PM – 4:00 PM	Post Conference Sessions				
	ASCE Government Relations & Public Relations University, <i>Room 602</i>		Digital Twin Modeling of Horizontal Infrastructure, <i>Room 614</i>		

Poster Sessions

THURSDAY, JUNE 15, 2023

7:30 AM – 8:30 AM	Continental Breakfast in the Exhibit Hall	
10:00 AM – 10:30 AM	Networking Break in the Exhibit Hall	
10:30 AM – 12:00 PM	POSTER 1	Meet the Author Poster Sessions, <i>Governor's Ballroom Salon ABC</i> Artificial Intelligence in Transportation Automated People Movers Mobility on Demand and as a Service (MODaaS) Rail Transport
12:00 PM – 1:00 PM	Lunch in the Exhibit Hall	
1:00 PM – 2:30 PM		
2:30 PM – 3:00 PM	Networking Break in the Exhibit Hall	
3:00 PM – 4:30 PM	POSTER 2	Freight and Logistics Public Transport Asphalt Binder and Mixture Characterization
4:30 PM – 6:00 PM	Zhanmin Zhang Welcome Reception & Technical Committee Expo in the Exhibit Hall	

FRIDAY, JUNE 16, 2023

7:30 AM – 8:30 AM	Continental Breakfast in the Exhibit Hall	
8:30 AM – 10:00 AM	POSTER 3	Machine Learning & AI Applications in Pavements Construction Quality Control and Quality Assurance Unbound Pavement Materials Accelerated Pavement Testing and Instrumentation Innovative Sustainable Methods, Materials, and Recycling Highway & Airfield Pavement Numerical Modeling and Analytics
10:00 AM – 10:30 AM	Networking Break in the Exhibit Hall	
10:30 AM – 12:00 PM	POSTER 4	Meet the Author Poster Sessions, <i>Governor's Ballroom Salon ABC</i> Aviation Planning and Operations Data Sensing and Analytics Transportation Planning Pavement Management Systems Pavement Economic and Environmental Impact Case Studies on Paving Projects Concrete Mixture Characterization
12:00 PM – 1:15 PM	P5 T&DI Awards Luncheon, <i>Austin Grand Ballroom Salon HJK</i>	
1:30 PM – 3:00 PM	POSTER 5	Bicycle and Pedestrian Connected and Autonomous Vehicles (CAV) Impacts Infrastructure Systems Pavement Design, Evaluation, Preservation, Maintenance, and Rehabilitation
3:00 PM – 3:30 PM	Networking Break in the Exhibit Hall	
3:30 PM – 5:00 PM	POSTER 6	Street and Highway Operations Transportation Safety
5:00 PM – 6:00 PM	ICTD and Pavements Poster Reception, <i>Governor's Ballroom Salon ABC</i>	

Pavements Sessions

THURSDAY, JUNE 15, 2023

7:30 AM – 8:30 AM	Continental Breakfast in the Exhibit Hall			
10:00 AM – 10:30 AM	Networking Break in the Exhibit Hall			
10:30 AM – 12:00 PM	P2 Pavements Opening Plenary, <i>Austin Grand Ballroom Salon HJK</i> Carl Monismith Lecture & Panel on Pavement Systems Sustainability			
12:00 PM – 1:00 PM	Lunch in the Exhibit Hall			
1:00 PM – 2:30 PM				
2:30 PM – 3:00 PM	Networking Break in the Exhibit Hall			
	TRACK H Room 616-AB Design – Case Studies & Performance	TRACK I Room 400 Airfield	TRACK J Room 404 Materials	TRACK K Room 602 Resilience & Sustainability
3:00 PM – 4:30 PM	H1 Accelerated Pavement Testing	I1 AIRFIELDS Innovative Sustainable Methods, Materials, Recycling and Rehabilitation	J1 Construction and Field Testing	K1 TxDOT: Seal Coats in Texas
4:30 PM – 6:00 PM	Zhanmin Zhang Welcome Reception & Technical Committee Expo in the Exhibit Hall			

FRIDAY, JUNE 16, 2023

7:30 AM – 8:30 AM	Continental Breakfast in the Exhibit Hall			
8:30 AM – 10:00 AM	H2 TxDOT: Pavement Management	I2 AIRFIELDS Project Case Studies – 1	J2 Asphalt Mix Design Considerations	K2 Sustainable Concrete Construction Alternatives
10:00 AM – 10:30 AM	Networking Break in the Exhibit Hall			
10:30 AM – 12:00 PM	H3 Mechanistic Design for PCC and AC	I3 AIRFIELDS Accelerated Pavement Testing & Instrumentation	J3 Pavement Geotechnics	K3 Asphalt Recycling and Reclamation
12:00 PM – 1:15 PM	P5 T&DI Awards Luncheon, <i>Austin Grand Ballroom Salon HJK</i>			
1:30 PM – 3:00 PM	H4 Unbound Materials and Layer Characterization	I4 AIRFIELDS Data Collection, Organization & Machine Learning Applications	J4 Concrete Materials and Pavements	K4 Sustainable Asphalt Pavement
3:00 PM – 3:30 PM	Networking Break in the Exhibit Hall			
3:30 PM – 5:00 PM	H5 Pavement Condition Assessment and Evaluation	I5 AIRFIELDS Materials, Modeling, and Design	J5 Performance of Engineered Asphalt Binders	K5 Carbon Reduction with Portland Cement Concrete
5:00 PM – 6:00 PM	ICTD and Pavements Poster Reception, <i>Governor's Ballroom Salon ABC</i>			

SATURDAY, JUNE 17, 2023

7:30 AM – 8:00 AM	Continental Breakfast in Austin Grand Ballroom, <i>Salon FG</i>			
		TRACK I Room 410		
8:00 AM – 9:30 AM	H6 Case Studies on Concrete and Asphalt Pavements	I6 AIRFIELDS - Evaluation and Use of UAV for Inspections	J6 Performance of Engineered Asphalt Mortars and Mixes	K6 Pavement Economics and Environmental Impact
9:30 AM – 9:45 AM	Break			
9:45 AM – 11:15 AM	H7 Preservation and Rehabilitation of AC and PCC Pavements	I7 AIRFIELDS – Project Case Studies – 2	J7 TxDOT: Pavement Design and Maintenance	K7 Machine Learning & AI Applications in Pavements

Workshops

Young Faculty & Practitioner's Workshop

Wednesday, June 14 | 8:00 AM – 5:00 PM | [UT Austin Campus](#) | [Room: EER 3.646 - Blaschke Conference Room](#)

EER building is located at 2501 Speedway, Austin, TX 78712

Airport Pavement Design and Evaluation Workshop – Introduction to FAARFIELD2.0 and ICAO's ACR-PCR System

Wednesday, June 14 | 8:00 AM – 5:00 PM | [Room #602](#)

David R. Brill, M ASCE, P.E., Ph.D., Federal Aviation Administration;
Navneet Garg, Ph.D., F.ASCE, Federal Aviation Administration

Simplified Highway Capacity Manual Procedures for Use in Planning, Preliminary Engineering, Design and Operations for Urban Streets and Signalized Intersections

Wednesday, June 14 | 1:00 PM – 3:00 PM | [Room #617](#)

John Karachepone, P.E., Consultant; **Srikanth Panguluri, P.E., PTOE, RSP2I**, Jacobs

Future of the Highway Capacity Manual Focus Group Discussion

Wednesday, June 14 | 3:00 PM – 5:00 PM | [Room #617](#)

Robert W. Bryson (Retired), P.E., MSCE, City of Milwaukee, Department of Public Works

Financial Assessments of Transport Infrastructure Projects and Product Delivery

Wednesday, June 14 | 1:00 PM – 5:00 PM | [Room #614](#)

Cesar Queiroz, Ph.D., P.E., M.ASCE, Independent Consultant;
Goran Mladenovic, University of Belgrade, Faculty of Civil Engineering

Technical Tours

Advanced registration is required. Tours will depart from the main hotel lobby as scheduled below. Please arrive 15 minutes prior to departure for check in. Conference badge, tour ticket, and a State-issued ID are required to board the bus. Attendees should wear comfortable closed toe shoes. Heels or open toed shoes are not permitted.

WEDNESDAY, JUNE 14

Meet in the main hotel lobby E 5th Street Entrance

1:00 PM	Austin-Bergstrom International Airport Directing the Flow
1:00 PM	Austin-Bergstrom International Airport Paving the Way
1:00 PM	TxDOT — Materials and Tests Division Materials Laboratory Tour
1:00 PM	Circuit of The Americas F-1 Racetrack Tour
1:30 PM	Capital Metro North Operations Center & Metrorail Mechanics' Shop
5:00 PM	Austin Boardwalk, Lone Star River Boat & Mexican Freetail Bat Flight Tour

Networking Events

Networking Lunch

Thursday, June 15 | 12:00 PM – 1:00 PM | [Austin Grand Ballroom](#)

Join your colleagues for lunch and discussion on the latest hot issues in transportation. Look for table topics posted at tables in the Austin Grand Ballroom.

Zhanmin Zhang Welcome Reception & T&D Technical Expo

Thursday, June 15 | 4:30 PM – 6:00 PM | [Salon FG-Exhibit Hall](#)

This reception is named in memory and honor of T&D leader and UT Austin Professor, Dr. Zhanmin Zhang. Join us for drinks and hors d'oeuvres while you network and mingle with friends, colleagues, and exhibitors. Don't miss this opportunity to network with your peers, learn about the products and services offered by our sponsors and exhibitors, explore the various technical committees, and communicate with committee leadership about getting involved.

ICTD and Pavements 2023 Poster Reception

Friday, June 16 | 5:00 PM – 6:00 PM | [Governors Ballroom Salon ABC](#)

Post Conference Sessions

Digital Twin Modeling of Horizontal Infrastructure

Saturday, June 17 | 2:00 PM – 4:00 PM | [Room #614](#)

Alessandro Fascetti, PhD, University of Pittsburgh;
Egemen Okte, University of Massachusetts at Amherst

ASCE Government Relations & Public Relations University

Saturday, June 17 | 2:00 PM – 4:00 PM | [Room #602](#)

Kevin Longley, American Society of Civil Engineers; **Eleanor Lamb**, American Society of Civil Engineers

Committee Meetings

AV070 Mid-year Meeting	Thursday, June 15	6:00 – 7:30 PM	602
ROADWAY COUNCIL			
Highway Pavements Committee	Wednesday, June 14	3:30 – 5:00 PM	615 B
Highway Construction Committee	Wednesday, June 14	4:00 – 5:00 PM	615 A
Transportation Safety Committee	Wednesday, June 14	9:00 – 10:00 AM	617
Street & Highway Operations Committee	Thursday, June 15	6:00 – 7:00 PM	615 A
Active Transportation Committee	Thursday, June 15	7:00 – 8:00 PM	400
AVIATION COUNCIL			
Airfield Pavement Committee	Thursday, June 15	6:00 – 7:30 PM	602
RAIL & PUBLIC TRANSIT COUNCIL			
Public Transport Committee	Thursday, June 15	6:30 – 7:30 PM	615 -B
PLANNING & DEVELOPMENT			
Freight & Logistics Committee	Wednesday, June 14	10:30 AM – 12:00 PM	615 A
Economics & Finance Committee	Wednesday, June 14	5:30 – 6:30 PM	615 A
Infrastructure Systems Committee	Thursday, June 15	6:00 – 7:30 PM	616 A
EMERGING TECHNOLOGIES			
Uncrewed Aerial Systems	Wednesday, June 14	10:00 AM – 12:00 PM	615 B
Artificial Intelligence Committee	Thursday, June 15	6:00 – 7:30 PM	614

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Special Thanks to

- Austin-Bergstrom International Airport
- TxDOT — Materials and Tests Division
- CapMetro
- University of Texas at Austin

ICTD-Pavements 2023 Exhibit Hall

Booth #	Exhibitor	Booth #	Exhibitor
105	AirSide Solutions	211	Kontur
210	Asphalt Pavement Alliance	203	livSYT
206	Asphalt Systems	204	MixOnSite
107	BDI	209	MST Rebar
114	Blyncsy	310	Pathway Services
212	CMC - Commerical Metals	300	Pretred
111	Compliance View 360	113	RCC Pavement Council
200	Contech Engineered Solutions	115	RoadBotics by Michelin
215	Crafco	108	SealMaster
110	Crawford, Murphy & Tilly	207	STV
208	ERTEC Environmental Systems	202	SuperSealing USA
308	Forta	112	Texas Concrete Pipe Association
205	Garver	104	TxDOT
214	Greenwood Engineering	103	The Transtec Group
302	Humboldt Manufacturing	109	Tiger Eye Engineering
213	Infrastructure Management Services	101	Transconomy
201	Kessler Soils Engineering Products	100	Wavetronix

