2025 New Mexico Transportation and Construction Conference

Las Cruces Convention Center, 680 E University Ave, Las Cruces, NM 88001

Las Cruces New Mexico

April 23-25, 2025

Collaborative Partnerships for Intelligent Transportation Infrastructure

Success in the Planning, Design, Construction and Maintenance of Transportation Assets

https://engrnm.nmsu.edu/professional-development/conferences/transcon.html



Hosted by the College of Engineering at New Mexico State University in collaboration with

New Mexico Department of Transportation (NMDOT); American Planning Association-New Mexico (APA-NM); American Society of Civil Engineers (ASCE)-New Mexico Section; Associated Contractors of New Mexico (ACNM); American Council of Engineering Companies-New Mexico; Federal Highway Administration, New Mexico Division; Asphalt Pavement Association of New Mexico











2025 New Mexico TransCon Conference Co-Chairs:

Craig M. Newtson, Ph.D. and Qianyun (Gloria) Zhang, Ph.D., New Mexico State University

Tuesday, Ap	oril 22, 2025	
12:00 p.m.	16 th Annual Golf Tournament Fundraiser, NMSU Golf Course	
	Organized by the NMDOT District 1 Highway Employees Association (H.E.A.)	
Wednesday	/, April 23, 2025	
8:00 a.m.	Sponsor and vendor booth registration and set-up	<u>Room</u> : Hallway
10:00 a.m.	Attendee registration opens.	
1:00 p.m.	Opening Session <u>Moderator</u> : Craig Newtson, Ph.D., NM TransCon Chair; Department Head, NMSU Civil Engineering	<u>Room</u> : Exhibit Hall
	Welcome Speakers: Craig Newtson, Ph.D. and David V. Jauregui, Ph.D., P.E., Interim Dean, NMSU College of Er	ngineering
1:15 p.m.	Opening Remarks from New Mexico's Lieutenant Governor Introduction by: Dan Aguirre, P.E., Senior Vice President, Wilson & Company Speaker: Howie Morales, Ph.D., Lieutenant Governor, State of New Mexico	
1:30 p.m.	Opening Remarks from New Mexico's Secretary of Transportation Introduction by: Dan Aguirre, P.E., Senior Vice President, Wilson & Company Speaker: Ricky Serna, Cabinet Secretary, New Mexico Department of Transportation	
2:00 p.m.	Update from the American Society of Civil Engineers Introduction by: AECOM Speaker: Thomas W. Smith III, ENV SP, CAE, F.ASCE, Executive Director, American Society of Civil Eng	gineers (ASCE)
2:20 p.m.	Rerouting Route 66 through New Mexico , a Tribute to the U.S. Route 66 Centennial, 2026 Introduction by: Craig Newtson, Ph.D., NM TransCon Chair Speaker: Roger M. Zimmerman, New Mexico Member, ASCE; National Historical Civil Engineering La	ndmark Nominating Commit
2:50 p.m.	Announcement: Booth Champions Challenge Introduction by: Craig Newtson, Ph.D., New Mexico State University Speaker: Stantec	
3:00 p.m.	Break and Vendor Exhibits A refreshment station is located outside the ballrooms at the east end of the building.	<u>Room</u> : Hallway

Wednesday, April 23, 2025

3:30 – 5:00 p.m.

Track 1: Bridges

Room: Ballroom 1

- <u>Moderators</u>: Kimberly Coleman, P.E., Engineer, Secure Commerce and Border Systems, Sandia National Laboratories; Seth McVey, Structural Engineer, AECOM
 - Title 1:From Plans to Pavement: The 25-Year Journey of the Piñon Hills Boulevard ExtensionPresenters: Sharon Cruz, Program Manager, NMDOT; Kurt Thorson, Sr. Vice President, Traffic & Transportation, BohannanHuston, Inc.; Scott Armstrong, Vice President, Surface Water, Bohannan Huston, Inc.; Ted Barela, Sr. Vice President,
Construction Engineering, Bohannan Huston, Inc.; Tim Solinski, Director of Surveying, AUI, Inc
 - Title 2:Structural and Geotechnical Innovations on the I-25 Improved Design-Build ProjectPresenters: Richard Rotto, Designer Structural Lead, AECOM; Will Kessler, Engineer Manager I, NMDOT Bridge Bureau; MikeAnderson, Principal Engineer, Terracon; Jesse Reinikainen, Principal Geotechnical Engineer, Yedoma; Sean Melville, Sr. VicePresident, Bohannan Huston, Inc.; Arturo Regalado, Bridge Engineer, Jacobs

Wednesday, April 23, 2025		
3:30 – 5:00 p.m.		Room: Ballroom 2
Track 2: Materials		
Moderator: Paola Bandini, Ph.D.,	P.E., Professor, Civil Engineering, NMSU, and Region 6 Governor, ASCE	
•	land-Limestone Cement & Concrete Mixtures ox, Technical Services Manager, GCC	
,	n Hot Mix Asphalt – More Than An Antistrip n Ingram, Ph.D., Director, Technical Services, Lhoist North America	
,	l Carbonate Precipitation Bandini, Ph.D., P.E., Professor, Civil Engineering, NMSU, and Region 6 Governor, ASCE	

Wednesday, April 24, 2025

3:30 – 5:00 p.m.

Track 3: Design Innovation

Moderator: Jerry Paz, P.E., Chief Operations Officer, Molzen Corbin

- Title 1:Innovative Intersection DesignPresenter: Robby Wheeler, Senior Principal Engineer, Econolite Traffic Systems
- Title 2:Transforming Transportation: A Collaborative Approach to NMDOT Digital DeliveryPresenters: David Quintana, Chief Engineer, NMDOT; Keith King, Senior Consultant, Esri; JosephVolpato, Infrastructure Designer & Co-Chairman, CADD Standards Committee, NMDOT
- Title 3:Anthony Gap Improvements, NM-213 Safety & Corridor ImprovementsPresenters: Roy Gibson, P.E., Sr. Vice President, Bohannan Huston Inc.; Mark Salazar, ProjectDevelopment Engineer, NMDOT; Anthony Caprioglio, Project Engineer, Bohannan Huston Inc.

2025 New Mexico TransCon

Collaborative Partnerships for Intelligent Transportation Infrastructure



Room: Exhibit Hall

Thursday, April 24, 2025 Room: Exhibit Ha		
7:00 a.m.	Breakfast: Assorted Breakfast Sandwiches and Salsas; Fresh Berry Yogurt Parfait; Coffee, Tea, Orange Juice	
Thursday, Apr	il 24, 2025	
8:15 – 9:45 a.m.		
Track 1: Colla	borative Partnerships	Room: Ballroom 1
<u>Moderator</u> : Dap	ohne Espejel-García, Ph.D., Engineering Faculty, Universidad Autónoma de Chihuahua	
Title 1:	Revitalization of the I-25/Williamsburg Interchange through Collaboration Presenters: Wyatt Kartchner, Vice President, Southern Region Manager and Andrew Wong, Project Engi	neer, Molzen Corbin
Title 2:	Importance of Border Crossings between the States of Chihuahua and New Mexico Presenter: Mario C. Contreras-Figueroa, Undersecretary of Planning and Regulations, Government of the Department of Communications and Public Works	e State of Chihuahua,
Title 3:	Driving Engagement: Interactive Strategies for Collaborative Transportation Projects and Programs Presenters: Marisa Maez and Nicole Moon, Sr. Strategic Communication Consultants, HDR	
Title 4:	Collaborative Pathways to Urban Electromobility: Public Transport Solutions between Mexico and U.S. Presenter: Daphne Espejel-García, Ph.D., Engineering Faculty, Universidad Autónoma de Chihuahua	
Thursday, Ap	oril 24, 2025	
8:15 – 9:45 a.r	n.	
Track 2: Brid	dges	Room: Ballroom 2

Moderator: Ruinian Jiang, Ph.D., P.E., Professor, Civil Engineering Technology, NMSU

- Title 1:I-10/University Ave. Bridge Investigation and RehabilitationPresenters: Danton Bean, HDR; Brice Carpenter, BDI; Ryan Tafoya, NMDOT; Matthew Smith, NMDOT
- Title 2:UAS, AI, and Digital Twins to Modernize Bridge InspectionsPresenter: Barritt Lovelace, Vice President of UAS, AI and Reality Modeling, Collins Engineers, Inc.
- Title 3:T-1 Steel Inspection of the Rio Grande Gorge BridgePresenters: Ryan Hafer, P.E., Project Manager, Ulteig; Jeff Vielle, P.E., Bridge Management Engineer, NMDOT Bridge Bureau

Thursday, April 24, 2025 8:15 – 9:45 a.m. Track 3: Environment Moderator: Jolene Herrera, NMDOT Statewide Transportation Improvement Program (STIP) Bureau Chief Title 1: Climate Change activities at NMDOT Presenters: Sharon Cruz, Climate Action Program Coordinator, and Jessica Griffin, Planning Division Director, NMDOT Improving Sustainability Practices in NMDOT Infrastructure Title 2: Panelists: Sherri Holliefield, South Region Design Manager, NMDOT Antonio Griego, Roadside & Community Design, NMDOT Jerry Paz, Chief Operations Officer, Molzen Corbin Sarah Ganley, Senior Vice President Surface Water, Bohannan Huston Michael Bloom, Sustainability Practice Manager, Sengineering Erica Newman, Drainage Design Bureau Intern, NMDOT Michael Sandoval, Owner, Iliago

9:45 a.m. **Break and Vendor Exhibits**

A refreshment station is located outside the ballrooms at the east end of the building.

Thursday, April 24, 2025

10:00 – 11:30 a.m.

Track 1: Contractors

Moderator: Brian Legan, CSHO, Director of Operations and Apprenticeship, Associated Contractors of New Mexico

- Increasing Litigation and its Effects on Construction Projects Title 1: Presenter: Neil Jackson, Mountain States Constructors Inc.
- Title 2: Precision in Motion: Leveraging LiDAR for Improved 3D Machine Control Presenter: Mark Larranaga, Topcon Positioning Systems
- Title 3: Buy America Build America (BABA) FHWA Update Presenter: Jessica Hunter, P.E., NMDOT CCRB

Room: Ballroom 1

Room: Hallway

Room: Rooms 7-9 (West End)

Room: Ballroom 2

Thursday, April 24, 2025

10:00 – 11:30 a.m.

Track 2: Resilient Infrastructure

Moderator: Craig Newtson, Ph.D., NM TransCon Chair; Department Head, NMSU Civil Engineering

- **Title 1:**Designing Resilient Drainage InfrastructurePresenter: Adrianna Lash, Technical Resource Specialist, Rinker Materials
- Title 2:Embedding Risk Perspective and Resilience into Transportation Agency PracticesPresenters: Steven Olmsted, Program Delivery Manager, Arizona DOT; Michael J Flood, Resilience Lead, WSP; Sharon Cruz,
Climate Action Team Manager, NMDOT; Jessica Griffin, Planning Division Director, NMDOT
- Title 3:Improving US 285 in the Heart of the Oil FeldPresenters: Wyatt Kartchner, Vice President Southern Region Manager, Molzen Corbin; Andrew Wong, Project Engineer,
Molzen CorbinMolzen Corbin

Thursday, April 24, 2025

10:00 - 11:30	a.m.	
Track 3: Dat	a Technology	Room: Rooms 7-9
<u>Moderator</u> : Q	ianyun (Gloria) Zhang, Ph.D., Assistant Professor, NMSU Civil Engineering	(West End)
Title 1:	From Idea to Outcomes – Using Data to Connect Projects Throughout Its Lifespan to Deliver More New Mexico Travelers Presenter: Virginia Stubella, Transportation Performance Management Manager, NMDOT	e Value to
Title 2:	Title 2: NMDOT Planning Division Geographical Information Hub Site: A public platform for exploring and downloading open data Presenter: Alma D. Pacheco, GIS Analyst, Planning Division, NMDOT; John Baker, Data Management Bureau Chief, NMDOT	
Title 3:	Title 3:Multi-year, network level digital mapping of pavement surfaces and highway right-of-way corridor on NMDOT-owned highways Presenter: Ben Ong, Transportation Asset Management Professional, Fugro	
Title 4:	High-Quality Data Collection and Meta-Heuristic-Driven Path Optimization for Unmanned Aerial Inspection Presenter: Qianyun (Gloria) Zhang, Ph.D., Assistant Professor, NMSU Civil Engineering	Vehicle-based Infrastructure

Thursday, April 24, 2025	
11:30 a.m. Break and Vendor Exhibits	<u>Room</u> : Hallway
11:45 a.m. Keynote Luncheon	Room: Exhibit Hall
<u>Moderator</u> : Craig Newtson, Ph.D., NM TransCon Chair; Department Head, NMSU Civil Engineering Introduction: AECOM	
Keynote Address: Thomas W. Smith III, ENV SP, CAE, F.ASCE, Executive Director, American Society of Civil Engine	ers (ASCE)
Recognitions and Scholarship Awards	
The Kenneth White Professorship in Transportation and Structural Engineering in the College of Engineering Announced by David V. Jauregui, Interim Dean, NMSU College of Engineering	
Samuel P. Maggard Endowed Scholarship Presented by Craig Newtson, Ph.D., NM TransCon Chair; Department Head, NMSU Civil Engineering	
ACNM Scholarships Presented by: Brian Roche	
ASCE New Mexico Section Scholarships Presented by: TBA	

1:30 p.m. Break and Vendor Exhibits

A refreshment station is located outside the ballrooms at the east end of the building.

Room: Hallway



Room: Ballroom 1

Thursday, April 24, 2025

1:45 – 3:15 p.m.

Track 1: Transportation Planning

Moderator: Jolene Herrera, NMDOT Statewide Transportation Improvement Program (STIP) Bureau Chief

- Title 1:NMDOT Complete Streets Strategic PlanPresenter: Samuel Jensen, Active Transportation Programs Supervisor, NMDOT
- Title 2:The Santa Teresa Strategic Master Infrastructure Plan: Using strategic planning of infrastructure improvements to support
economic development for the Santa Teresa area
Presenters: Noah Berke, AICP, Planning Practice Lead, Southwest Region, Wilson & Company Inc.; Christopher Erickson, Ph.D.,
Director, Center for Border Economic Development, NMSU; Joseph De La Rosa, Senior Advisor for Global Trade and
Infrastructure Investments, NMDOT and State of New Mexico Economic Development Department
- **Title 3:**Surviving and Thriving Government Funding: From Application to AdministrationPresenter: Sandy Zimmer, Grants & Funding Program Manager, Ulteig
- Title 4:Future of Transit in New MexicoPresenters: Deborah Bach, Rural Transit Programs Coordinator, NMDOT; Delilah Garcia, Transit Planning and CommuteOptions Program Manager, NMDOT

Thursday, April 24, 2025

1:45 – 3:15 p.m.

Track 2: Environment

Room: Ballroom 2

Moderator: Zhe (Joe) Wan, Ph.D., P.E., Assistant Professor, NMSU Civil Engineering

- Title 1:Journey with us Along the Trail of the Ancients Scenic BywayPresenter: Denise Aten, Senior Vice President; Liz Treat, Planner; Clare Haley, Planner; Bohannan Huston
- **Title 2:**El Paso Electric's New Mexico Transportation Electrification Plan: Electric Vehicle Charging Infrastructure Rebates and
Programs Presenter: Edwin Martinez, Project Manager-Electrification of Transportation, El Paso Electric Company
- **Title 3:**10 Reasons Zero Emissions Vehicle Plans Stall...and what your agency can do about itPresenter: Rob Mowat, Transportation Electrified Mobility Practice Lead, HDR

Thursday, April 24, 2025

1:45 – 3:15 p.m.

Track 3: Safety

Moderator: Daphne Espejel-García, Ph.D., Engineering Faculty, Universidad Autónoma de Chihuahua

- Title 1:Science of RetroreflectivityPresenter: Austin Kuhrmeyer, 3M
- Title 2:Constructability and Functionality Review of the Triple Roundabout in Truth or Consequences, NMPresenters: Andreas Linnan, Technical Support Engineer, NMDOT; Andrew Gallegos, Director of Transportation, Planning, and
Engineering, NV5; Matthew Smith, Project Manager, NMDOT
- Title 3:Coordinating Safety across NMDOT to reach Target Zero (Zero Traffic Fatalities by 2050)Presenter: Amy Whitfield, Special Director; Jason Coffey, Technical Unit Supervisor; Samuel Jensen, Active TransportationPrograms Supervisor; Shannon Glendenning, Traffic Safety Division Director; NMDOT

3:15 p.m. Break and Vendor Exhibits

Room: Hallway

A refreshment station is located outside the ballrooms at the east end of the building.

Thursday, April 24, 2025

3:30 – 5:00 p.m.

Track 1: Design Innovation

Moderator: TBA

- **Title 1:**Flipped Left Diamond Interchange: Another Innovative Alternative Intersection DesignPresenter: Scott Booth, Senior Project Manager, LIA Engineering
- Title 2:I-25 Improved: Design-Build InnovationsPresenters: Mike Worrall, Consultant Project Manager, Horrocks; Luke Smith, Project Development Engineer, NMDOT;Richard Rotto, AECOM; Patrick Shaw, AUI Inc.

Room: Ballroom 1

Room: Rooms 7-9 (West End)

Room: Ballroom 1

Thursday, April 24, 2025

3:30 – 5:00 p.m.

Track 2: Technology

Moderator: Ross Lujan, P.E., Regional Transportation Manager, Ardurra

Title 1:	Portable Traffic Signals in the MUTCD
	Presenter: Kirk Thrasher, Regional Sales Manager, Horizon Signal Technologies

- **Title 2:**Bridging the Digital Divide: Engineers, Vendors, and Contractors for Delivery SuccessPresenter: Leon Nafus, National BIM Leader, WSP
- **Title 3:**From the "Slide Rule" to AIPresenter: Ray Acuna, Owner, Acuna Engineering

Thursday, April 24, 2025

3:30 -- 5:00 p.m.

Track 3: Drainage

Moderator: Huidae Cho, Ph.D., P.E., CFM, GISP, Associate Professor, NMSU Civil Engineering

- **Title 1:**From Burnout to Balance: Using Positive Affirmations to Reignite Your Energy & PurposePresenter: Haley Lugo-Pichardo, Owner, Daily With Haley, LLC
- Title 2:Harnessing the Power of CFD Modeling: the CR-1 Approach to Complex Drainage AnalysisPresenters: Chris Naidu, NM Water Local Business Line Leader, WSP; Judy Horacek, Special Projects Coordinator, Cibola
County
- Title 3:A robust inspection system for internal inspections of small culverts
Presenter: Eleanor Rightley, Graduate Research Assistant; Claudia M. D. Wilson, Associate Professor; Isabel Morris, Assistant
Professor; Wesley Cook, Associate Professor; Curtis O'Malley, Assistant Professor; Ryne Almarinez and Samuel Gore,
Undergraduate Research Assistants, New Mexico Institute of Mining and Technology
- Title 4:How to Address Uncertainty in Drainage Analysis for the NMDOT Culvert Asset Management Program (CAMP)Presenter: Huidae Cho, Associate Professor, NMSU Civil Engineering; S.M. Asaduzzaman Reshad, Graduate Research Assistant,
NMSU

Friday, April 25, 2025

7:00 a.m. Breakfast: Assorted Breakfast Burritos and Salsas; Whole Bananas, Apples, Mandarin Room: Exhibit Hall Oranges; Coffee, Tea, Orange Juice

Friday, April 25, 2025

8:00 – 9:30 a.m.

Track 1: Safety

Moderator: Craig Newtson, Ph.D., NM TransCon Chair; Department Head, NMSU Civil Engineering

Title:Creating a Culture of Safety and CaringPresenter: Mike Schneider, Baker Concrete

Friday, April 25, 2025

8:00 – 9:30 a.m.

Track 2: Intelligent Infrastructure

Moderator: Jonah Ruybalid, P.E., Molzen Corbin

- Title 1:
 Dynamic Left-Turn Lanes: A Key to Smarter, Sleeker Road Networks

 Presenter: Bhanu Kala, ITS & Transportation Planning Expert, Srirama, LLC
- Title 2:
 The Power of AI for Predictive Roadway Maintenance

 Presenter:
 Mark Pittman, CEO, Blyncsy, a Bentley Systems Company
- **Title 3:**From Concept to Reality: The New Age of Civil Engineering with Digital Twins and AIPresenter: Terry Walters, Digital Practice Manager, Stantec

Room: Rooms 7-9 (West End)

Room: Exhibit Hall

8:00 – 9:30 ;	Friday, April 25, 20258:00 – 9:30 a.m.Track 3: 2025 Student Poster Session and Competition		
9:30 a.m.	Break and Vendor Exhibits A refreshment station is located inside the Exhibit Hall	<u>Room</u> : Exhibit Hall	
9:45 a.m. Announce Moderat	Friday, April 25, 2025 9:45 a.m. Announcement: Winners of the Booth Champions Challenge Moderator: Craig Newtson, Ph.D., NM TransCon Chair; Department Head, NMSU Civil Engineering Speaker: Stantec		
Introduc		<u>Room</u> : Exhibit Hall	
Moderat	or: Qianyun (Gloria) Zhang, Ph.D., New Mexico State University NMDOT marks		

2025 New Mexico Transportation and Construction Conference

Conference Planning Committee:

Conference Planning Committee Co-Chairs:

Craig Newtson, New Mexico State University Qianyun Zhang, New Mexico State University

Committee Members:

Paola Bandini, New Mexico State University Logan Brandenburg, ASCE New Mexico Section Huidae Cho, New Mexico State University Kimberly Coleman, Sandia National Laboratories Alvin Dominguez, ASCE New Mexico Section Ahmed Elaksher, New Mexico State University Daphne Espejel Garcia, Universidad Autónoma de Chihuahua Roy Gibson, ASCE New Mexico Section Andy Hume, Las Cruces International Airport / American Planning Association-New Mexico Ruinian Jiang, New Mexico State University Brian Legan, Associated Contractors of New Mexico Andreas Linnan, New Mexico Department of Transportation Ross Lujan, American Council of Engineering Companies-New Mexico Sara Patricolo, New Mexico State University Jerry Paz, ASCE New Mexico Section and Region 6 Gisela Perez, New Mexico State University Jonah Ruybalid, Molzen Corbin Albert "Bert" Thomas, American Council of Engineering Companies-New Mexico Max Valerio, Federal Highway Administration – New Mexico Division Shannon Vigil, New Mexico Department of Transportation Zhe Wan, New Mexico State University



