

THE 56TH ANNUAL

Paving and Transportation Conference

Marriott Pyramid North Hotel and Convention Center, Albuquerque, NM

January 9-11, 2019

Hosted by The University of New Mexico Department of Civil, Construction & Environmental Engineering

Theme: Transformation and Revolution in the Transportation Industry

Conference Program

TUESDAY, JANUARY 8, 2019

2:00 p.m. Vendor Setup – Exhibit Hall (Cancun Room)

6:30 p.m. Speakers' Dinner (by invitation only) – Kokopelli Ballroom

WEDNESDAY, JANUARY 9, 2019

7:00 a.m. Registration – Conference Center Foyer

OPENING GENERAL SESSION (Yucatan & Taos Rooms)

Presiding – Rafi Tarefder, UNM

8:00 University's Welcome – Gabriel López, Vice President for Research, UNM

8:05 FHWA's Welcome – J. Don Martinez, Division Administrator, Federal Highway Administration, NM Division

8:20 State Transportation Update – Mike Sandoval, Cabinet Secretary, NM Department of Transportation

8:50 Local Perspective – Lawrence Rael, City of Albuquerque

9:10 Keynote Address – Robert DelCampo, Executive Director of UNM Innovation Academy

BREAK

10:00 - 10:30 Refreshments – Exhibit Hall (Cancun Room)

GENERAL SESSION 1 (Yucatan & Taos Rooms)

Innovations in the Paving and Transportation Industry

Presiding – Ken Murphy, District 3 Engineer, NMDOT (Invited)

10:30 EDC 5 STEP – Tori Brinkly, FHWA

11:00 Transformation and Revolution in Asphalt Chemistry – Everett Crews, Ingevity

11:30 Awards – Mahmoud Taha, UNM

WEDNESDAY LUNCHEON

12:15 - 1:30 Lunch – Exhibit Hall (Cancun Room)

CONCURRENT SESSION 2A (Yucatan Room)

Change – The 4th Industrial Revolution

Presiding – Chris Baca, Parametrix

1:30 What is the 4th Industrial Revolution? – Chris Baca, Parametrix

1:45 Planning for the Mid Region – What Change is Coming? – Nathan Masek, Dave Pennella, and Kendra Montanari, MRCOG

2:30 Autonomous Vehicle Impacts on Traffic and Congestion in ABQ – Gregory Rowangould, UNM

CONCURRENT SESSION 2B (Taos Room)

Performed Based Mix Design

Presiding – James Gallegos, NMDOT

1:30 Mix Design Basics and Performance Testing– Dave Johnson, Asphalt Institute

2:00 Performance Engineered Mixture Design for HMA – Richard Duval, FHWA

2:30 SMA Long Term Track Performance – Buzz Powell, NCAT

BREAK

3:00 - 3:30 Refreshments – Exhibit Hall (Cancun Room)

CONCURRENT SESSION 3A (Yucatan Room)

Environmentally Sustainable Design

Presiding – Jim Barrera, Horrocks Engineers

3:30 Bridge and Culvert Construction Guidelines for Riparian Habitats – Malia Volke, NM Department of Game & Fish

4:00 Green Stormwater Infrastructure & Low Impact Development - Tess Houle, MRWM, and Kali Bronson, Bernalillo County

4:30 US 54 Project: Alamogordo to Tularosa – Paul Zagone, Souder Miller & Associates

CONCURRENT SESSION 3B (Taos Room)

Advanced Laboratory and Field Testing

Presiding – Terrill Wade, HollyFrontier Refining & Marketing LLC

3:30 CIR and Overlay: US 285 – James Gallegos, NMDOT, Shawn Hammer, Fisher Sand & Gravel, and Mike O’Leary, Ingevity

4:00 New Test Methods for PG Plus Grade Binders with Polymers– Amanul Hasan, UNM

4:30 Testing of CTE of NMDOT Concrete and Its impact on JPCP and CRCP Design – Gauhar Sabih, UNM

5:00 ITE Social – Hosted by the Institute of Transportation Engineers, New Mexico Section (ITE Members, Transportation Leadership Council Members, and Guests)

THURSDAY, JANUARY 10, 2019

7:00 a.m. Breakfast – Hosted by New Mexico Contractors and Materials Suppliers – Exhibit Hall (Cancun Room)

CONCURRENT SESSION 4A (Yucatan Room)

TranSET Projects

Presiding – Susan Bogus, UNM

8:30 What makes a street walkable? A study on funding maintenance and evaluating new designs in Albuquerque – Alexis Corning-Padilla and Gregory Rowangould, UNM

9:00 Augmented Reality for Transportation Infrastructure Inspection and Management – Dilendra Maharjan, Marlon Aguero, Fernando Moreu and David Mascarenas, UNM

9:30 Innovative Retrofit of Corroded Metal Culverts using Glass Fiber Reinforced Polymers (GFRP) Profiles – Rahulreddy Chennareddy and Mahmoud Reda Taha, UNM

CONCURRENT SESSION 4B (Taos Room)

Concrete Pavements

Presiding – Jeff Mann, NMDOT

8:30 Performance Specifications for PCCP – Gina Ahlstrom, FHWA

9:00 Continuously Reinforced Concrete Pavement – Jeff Mann, NMDOT

9:30 Mobile Testing Trailer – Michael Praul, FHWA

BREAK

10:00 - 10:30 Refreshments – Exhibit Hall (Cancun Room)

CONCURRENT SESSION 5A (Yucatan Room)

Improving Traffic Safety and an Overhaul of the DPM

Presiding – Paul Barricklow, Lee Engineering

10:30 Adopting Proactive Indicators of Traffic Safety – Nick Ferenchak, UNM

11:00 Smart Work Zone: Utilizing Advanced ITS Technology to Enhance Work Zone Mobility and Safety – John Song, AECOM.

11:30 DPM Overhaul: Transforming Transportation Planning and Design in Albuquerque – Racquel Michel, City of Albuquerque

CONCURRENT SESSION 5B (Taos Room)

Market Ready Asphalt Materials

Presiding – Brian Jones, Asphalt Pavement Association of New Mexico

10:30 New Technologies in Emulsion for Pavement Preservation – Mo Rahman, Ergon Asphalt & Emulsions

11:00 Lubricating Anti-Strip – Ryan Brown, Ingevity

11:30 Cold Central Plant Recycling and FDR – Dan Wegman, Braun Intertec

THURSDAY LUNCHEON

12:15 - 1:30 Lunch on Your Own

<p>CONCURRENT SESSION 6A (Yucatan Room) <i>Innovations in Highway Design and Safety</i> Presiding – Derek Meier, Wilson & Co.</p> <p>1:30 Dust Storm Mitigation on the Lordsburg Playa – Trent Botkin, NMDOT</p> <p>2:00 Reducing Rural Roadway Departures – Tori Brinkly, FHWA</p> <p>2:30 Free Energy Solar Highway Program – Arthur Hirsch, TerraLogic Sustainable Solutions</p>	<p>CONCURRENT SESSION 6B (Taos Room) <i>Geotechnics</i> Presiding – Michelle Mann, NMDOT</p> <p>1:30 Utilizing Ground Anchors to Repair Failing Retaining Walls – Justin Petersen, GeoStabilization International</p> <p>2:00 PCCP Dowel Bar Alignment Measurements and Reporting Using RADAN Software and Ground Penetrating Radar (GPR) Technology – Andrew Cuaderes, Western Technologies Inc.</p> <p>2:30 GRS-IBS Bridge Concepts – Cameron Lobato, GeoStabilization International</p>
<p>BREAK 3:00 - 3:30 Refreshments – Exhibit Hall (Cancun/Tampico/Cozumel/Coronado Room)</p>	
<p>GENERAL SESSION 7 (Yucatan Room) <i>Engineering Ethics</i> Presiding – Parveez Anwar, Western Technologies Inc. 3:30 - 4:30 Brian Legan, ACNM</p>	
<p>Professional Development Hours (PDHs) may be claimed for attending the Paving and Transportation Conference. Each hour of participation earns one (1) PDH; attendees must maintain their own record of attendance.</p>	