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
8:15  State Transportation Commission Update – TBD
8:20  State Transportation Update – TBD
8:50  Local Perspective – TBD, 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  Yearly 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? – MRCOG Staff
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  Balanced Mix Design – David 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)

*Bridging the Waters*

Presiding – Jim Barrera, Horrocks Engineers

3:30  Bridge and Culvert Construction Guidelines for Riparian Habitats – Malia Volke, NM Department of Game & Fish
4:00  A Cast-in-Place Segmental Bridge for US 54 over the Canadian River – Nyssa Beach, Jacobs
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  New Test Methods for PG Plus Grade Binders with Polymers– Amanul Hasan, UNM
4:00  CIR and Overlay: US 285 – James Gallegos, NMDOT
4:30  Testing of CTE of NMDOT Concrete and Its impact on JPCP and CRCP Design – Gauhar Sabih, UNM

5:30  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
### CONCURRENT SESSION 6A  (Yucatan Room)

**Innovations in Highway Design and Safety**

Presiding – Derek Meier, Wilson & Co.

1:30 Dust Storm Mitigation on the Lordsburg Playa – Trent Botkin, NMDOT

2:00 Reducing Rural Roadway Departures – Tori Brinkly, FHWA

2:30 Free Energy Solar Highway Program – Arthur Hirsch, TerraLogic Sustainable Solutions

### CONCURRENT SESSION 6B  (Taos Room)

**Geotechnics**

Presiding – Michelle Mann, NMDOT

1:30 Utilizing Ground Anchors to Repair Failing Retaining Walls – Justin Petersen, GeoStabilization International

2:00 PCCP Dowel Bar Alignment Measurements and Reporting Using RADAN Software and Ground Penetrating Radar (GPR) Technology – Andrew Cuaderes, Western Technologies Inc.

2:30 GRS-IBS Bridge Concepts – Cameron Lobato, GeoStabilization International

### BREAK

3:00 - 3:30 Refreshments – Exhibit Hall (Cancun/Tampico/Cozumel/Coronado Room)

### GENERAL SESSION 7  (Yucatan Room)

**Engineering Ethics**

Presiding – Parvez Anwar, Western Technologies Inc.

3:30 - 4:30 Brian Legan, ACNM

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.