

THE 57TH ANNUAL

Paving and Transportation Conference

Marriott Pyramid North Hotel and Convention Center, Albuquerque, NM

January 8-9, 2020

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

Theme: 2020 Vision toward the Future of Transportation

Conference Program

TUESDAY, JANUARY 7, 2020

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

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

WEDNESDAY, JANUARY 8, 2020

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

OPENING GENERAL SESSION (Yucatan & Taos Rooms)

Presiding – Rafi Tarefder, UNM

8:00 University's Welcome – James Holloway, Provost and Executive Vice President for Academic Affairs, UNM

8:05 FHWA's Welcome – J. Don Martinez, New Mexico Division Administrator, FHWA

8:15 State Transportation Commission Update – Walter Adams, Chairman, State Transportation Commission

8:20 State Transportation Update – Michael Sandoval, Cabinet Secretary, NMDOT

8:50 Local Perspective on Vision for Future Growth, Job Creation, Infrastructure Improvements – Kelly Beierschmitt, Deputy Lab Director for Operations, Los Alamos National Laboratory

9:10 Keynote Address – Hari Kalla, Associate Administrator for Infrastructure, FHWA

BREAK

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

GENERAL SESSION 1 (Yucatan & Taos Rooms)

Innovative Project Delivery and Financing

Presiding – James Gallegos, NMDOT

10:30 Awards – NMDOT, APANM, and Others

11:00 Alternative Contract Delivery Types and Selection Process – Matthew Pacheco, CDOT

11:30 Innovative Project Financing through Public-Private Partnerships – Pete Rahn, Secretary, Maryland Department of Transportation

WEDNESDAY LUNCHEON

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

CONCURRENT SESSION 2A (Yucatan Room)

Project Delivery

Presiding – Timothy Parker, NMDOT

1:30 The Winona Bridge Project and MnDOT’s First Use of CMGC – Terry Ward, WSP

2:00 Southern Blvd. Reconstruction Phase 1: New Year, New Road – Savina Garcia, Wilson & Co.

2:30 Geospatial Data Revolution– Clay Wygant, Maser Consulting

CONCURRENT SESSION 2B (Taos Room)

Assessment of Paving Materials: Moving Forward

Presiding – Terrill Wade, Holly Asphalt

1:30 Warm Mix Asphalt: How Lower Temps Improve Asphalt Binder & Mix Performance – Dennis Muncy, Ingevity

2:00 Advances in Asphalt Mix Design and Performances – David Johnson, Asphalt Institute

2:30 Innovations in Asphalt Concrete Cracking Tests – Hasan Ozer, Arizona State University

BREAK

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

CONCURRENT SESSION 3A (Yucatan Room)

Asset Management / Traffic Management

Presiding – Chris Baca, Parametrix

3:30 NMDOT Transportation Asset Management – Tammy Haas, NMDOT

4:00 Alternative Strategies to Managing Congestion on I-40 in Albuquerque – Dave Pennington, Parametrix, Inc.

4:30 Work Zone Signal Operations: Making Full Use of Technology – Jonathon Kruse, Lee Engineering

CONCURRENT SESSION 3B (Taos Room)

Looking Back in Asphalt Technology

Presiding – Kelly Montoya, NMDOT

3:30 History of Asphalt Specifications – Robert McGennis, HollyFrontier

4:00 Lessons Learned in Peer Exchange – Larry Galehouse, National Center for Pavement Preservation

4:30 Asphalt Industry Program Update – Richard Willis, National Asphalt Pavement Assoc.

5:00 **SOCIAL** – ITE Members, Transportation Leadership Council Members, APANM, and Guests

THURSDAY, JANUARY 9, 2020

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

CONCURRENT SESSION 4A (Yucatan Room)

Smart Transportation

Presiding – Nick Ferenchak, UNM

8:30 LiDAR: a Key Emerging Technology for Autonomous Driving – Jim Foresi, Trilumina

8:55 Wrong Way Driving – Adam Goyen, TraffiCalm Systems

9:15 Smarter Roads, Safer Cities – Matt Zinn, FLIR

9:35 Emerging Services & Technologies to Advance Mobility and Energy Productivity – Alejandro Henao, National Renewable Energy Laboratory

CONCURRENT SESSION 4B (Taos Room)

Emerging Pavements

Presiding – Jeff Mann, NMDOT

8:30 FDR with Emulsions – Scott Metcalf, Ergon Asphalt & Emulsions

9:00 SMA Design – Lucas Giron, Wood

9:30 Roller Compacted Concrete – Ken Wylie, Wood

BREAK

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

CONCURRENT SESSION 5A (Yucatan Room)

TranSET Projects

Presiding – Susan Bogus, UNM

10:30 Bridge Deck Construction Evaluation using LiDAR and Photogrammetry – Fernando Moreu and Chris Lippitt, UNM

10:50 Wildlife Detection Systems for Highway Safety – Nicholas Ferenchak, UNM and Jim Hirsch, NMDOT

11:15 Sinkhole Detection and Mapping using LiDAR – Su Zhang, UNM

11:35 GFRP Slip Liner for Retrofit of Corroded Metal Culverts – Mahmoud Reda Taha, UNM

CONCURRENT SESSION 5B (Taos Room)

Various Programs and Technology in Moving Forward

Presiding – Brian Jones, APANM

10:30 Aviation Program – Will Fitzpatrick, NMDOT

11:00 Wall Blocks – Matt Willis, Redi-Rock International

11:25 EDC Initiative on Reducing Rural Roadway Departures, Dick Albin, FHWA

11:45 MASH Implementation Status, Dick Albin, FHWA

THURSDAY LUNCHEON

12:15 - 1:30 Lunch on Your Own

CONCURRENT SESSION 6A (Yucatan Room)

Transportation Design

Presiding – Ross Lujan, AECOM

- 1:30 A Roundabout Design Approach – Andrew Gallegos & Wesley Meyer, WHPacific/NV5
- 2:00 NMDOT I-40 Bridge Replacement at Manuelito Canyon, a Case Study of Two-Dimensional Drainage Modeling – Luke Smith, NMDOT and Dan Pfeifer, HDR
- 2:30 Work Zone Safety and Sustainable Alternative Barriers – Jeff Shewmaker, Hill & Smith

CONCURRENT SESSION 6B (Taos Room)

Transportation Geotechnics

Presiding – Michelle Mann, NMDOT

- 1:30 Geosynthetics in Roadway Applications – Jorge Zornberg, University of Texas at Austin
- 2:00 Rock Monitoring – John Gillentine, NMDOT
- 2:30 Enhancing Geotechnical Site Characterization with Underutilized Methods – Benjamin Rivers, FHWA

BREAK

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

GENERAL SESSION 7 (Yucatan Room)

Engineering Ethics

Presiding – Parveez 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.