

Thank You for Attending  
ITS NM's 11th Annual Meeting!



# ITS NEW MEXICO 11<sup>TH</sup> ANNUAL MEETING

*HOTEL ALBUQUERQUE  
Albuquerque, NM*



OCTOBER 29, 2019

2019

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The Intelligent Transportation Society of New Mexico (ITS NM) is a state chapter of ITS America. Membership is open to any interested individual or organization, including government agencies, private companies, consultants, educational institutions, professional organizations, emergency responders, and not-for-profit organizations.

### **Vision**

The Intelligent Transportation Society of New Mexico is an organization that believes innovative technologies can significantly improve the performance of our transportation system by 1) saving lives and 2) reducing congestion.

### **Mission**

The mission of ITS New Mexico is to foster the application of ITS solutions in New Mexico by encouraging innovative ideas, supporting public-private partnerships, advocating ITS deployment, offering guidance to governmental decision makers, and encouraging interest and support of ITS in our state.

### **Goals:**

The Intelligent Transportation Society of America and ITS New Mexico are the leading advocates for technologies that improve the safety, security and efficiency of the nation's and New Mexico's surface transportation system. Our members include private corporations, public agencies, and academic institutions involved in the research, development and design

of Intelligent Transportation Systems technologies that enhance safety, increase mobility and sustain the environment. Become a member, visit our website at [www.newmexicoits.com](http://www.newmexicoits.com) for more information.

### **External Goals**

- Advocate ITS on behalf of our members
- Provide an exciting non-competitive forum for ITS information exchange among public, private, and academic sectors
- Partner with other industry associations
- Promote the development and expansion of ITS markets
- Promote collaboration among ITS stakeholders
- Advise the State Legislature, the NMDOT, and other governing bodies on ITS issues and advancements
- Provide training opportunities for our members
- Support research and ITS education

### **Internal Goals**

- Maintain a strong chapter structure
- Maintain a high level of ethics in all undertakings
- Maintain financial stability in all accounts
- Expand and diversify membership
- Provide services responsive to member needs
- Engage membership and potential membership in chapter activities
- Show leadership in regional and national ITS activities



## 2019 ITS NM 11th ANNUAL MEETING

|                     |                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:00 AM - 8:00 AM   | Registration & Vendor Networking Breakfast<br>Sponsored by MWI Inc. & Horrocks Engineers                                                                                                      |
| 8:00 AM - 8:45 AM   | Welcome & Opening Remarks from Chris Schroeder, ITS NM Board President; Offices of Senator Udall & Representative Haaland; Michael R. Sandoval, Cabinet Secretary of NMDOT; FHWA; MRCOG; CABQ |
| 8:45 AM - 9:30 AM   | ITS America Welcome from Amy Ford, ITSA & MOD Alliance                                                                                                                                        |
| 9:30 AM - 9:50 AM   | Partner Demonstration from MH Corbin                                                                                                                                                          |
| 9:50 AM - 10:10 AM  | Partner Demonstration from Bixby Electric Inc.                                                                                                                                                |
| 10:10 AM - 10:35 AM | Morning Break, Sponsored by MG Squared                                                                                                                                                        |
| 10:30 AM - 3:00 PM  | Traffic Incident Management (TIM) Training from Training Officer Pete Bellows, Located in Tablao Room                                                                                         |
| 10:35 AM - 10:55 AM | Partner Demonstration from Southwest Research Institute                                                                                                                                       |
| 10:55 AM - 11:15 AM | Partner Demonstration from Whitlock                                                                                                                                                           |
| 11:15 AM - 12:00 PM | Connected Infrastructure - Lessons Learned from Dr. Alex Hainen, University of Alabama                                                                                                        |
| 12:00 PM - 1:30 PM  | Lunch Presentation from D'Val Westphal, Albuquerque Journal Road Warrior                                                                                                                      |
| 1:30 PM - 2:15 PM   | Use of Advanced Transportation Technology at Special Events from Peter Dwyer, INX                                                                                                             |
| 2:15 PM - 3:00 PM   | State of Autonomous Vehicles from Kelsey Judd, FLIR                                                                                                                                           |
| 3:00 PM - 3:30 PM   | Afternoon Break sponsored by Summit Traffic Solutions                                                                                                                                         |
| 3:30 PM - 4:15 PM   | TIM at TMCs from Captain John Cartier, AZ State Police                                                                                                                                        |
| 4:15 PM - 5:00 PM   | Autonomous CVOs in New Mexico from Juan Padrés, TUSimple                                                                                                                                      |
| 5:00 PM - 5:15 PM   | Election Results and Closing                                                                                                                                                                  |
| 5:15 PM - 7:00 PM   | Reception in Tablao Room with Entertainment by Le Chat Lunatique                                                                                                                              |



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## SPEAKERS

### Amy Ford

As the Director of the Mobility on Demand Alliance for ITS America, Amy Ford leads the creation, strategic direction and activities of the Alliance. The MODA will promote an innovative, traveler-focused approach to transportation that leverages emerging mobility services, integrated transit networks and operations, real-time data, connected travelers and cooperative Intelligent Transportation Systems (ITS). Prior to working with MODA, Amy served as the Chief of Advanced Mobility for the Colorado Department of Transportation, responsible for accelerating innovation programs and policies, including workforce of the future, communications and transportation technologies. She directed the RoadX Program which is focused on transformational transportation solutions like connected, autonomous, hyperloop and other technologies. Amy also served as the Chair for the state of Colorado's Autonomous Mobility Task Force which is responsible establishing consistent policy and operational deployment guidance in support of an autonomous mobility future.

With over 20 years of experience working in transportation, education and city public affairs, Amy owned her own strategic communications firm prior to CDOT and has led various economic and community development efforts in the City and County of Denver. She received her Master in Public Administration from the University of Colorado.

### Pete Bellows

Pete Bellows has been involved with the fire service in New Mexico for 40 years. He spent 24 years with the Las Cruces Fire Department. He is currently the Training Officer of the Organ Volunteer Fire Department of Doña Ana County Fire and Emergency Services. He is an adjunct instructor for the New Mexico Firefighters Training Academy and Doña Ana Community College.

### Dr. Alex Hainen

Alex Hainen is an assistant professor in the Department of Civil, Construction and Environmental Engineering at The University of Alabama. He received his BSCE from Michigan Technological University and his MSCE and PhD from Purdue University. His research interests include traffic signals, transportation operations, travel mobility, and airport engineering. He has worked with departments of transportation in Michigan, Indiana, Utah, and Alabama and with George Bush Intercontinental Airport (IAH) and Cincinnati/Northern Kentucky International Airport (CVG). He has 30 peer reviewed journal articles and 20 additional conference proceedings. Alex is a member of the Institute for Transportation Engineers, the American Society of Civil Engineers, and is secretary of the Transportation Research Board Utilities committee. Alex is currently working on developing optimization algorithms for the Alabama Department of Transportation and deploying the first DSRC connected vehicle platform in the state.

## SPEAKERS

### D'Val Westphal

Albuquerque Journal Editorial Page Editor D'Val Westphal has written the Journal's "Road Warrior" column since 1995, and since 2005 has served on the newspaper's editorial board helping determine the topics the paper will weigh in on as well as crafting editorials. She has been recognized for her writing on issues ranging from police officer social networking and county jail releases to cockfighting and chimp testing. She also contributes to the newspaper's UpFront columns, writing for the front page on myriad topics of interest. At last count she received more than a thousand reader inquiries regarding Metro-area traffic each year.

Westphal has a bachelor's degree in broadcasting and started out in radio, doing a drive-time show in El Paso with Don Imus' brother, Fred. She has a master's degree in print journalism from the University of Arizona and a doctorate from UNM in American Studies, with a focus on U.S. media coverage of war.

### Peter Dwyer

Peter was born and raised in New York City. He earned college degrees in Mathematics and Economics from Bates College in Lewiston Maine.

After a brief stint in the music royalties industry, Peter embarked on a career in the Transportation industry, working for an information clearinghouse for the greater New York City area. There, Peter helped put a face on Intelligent Transportation Systems by helping to shepherd the multi-state, regional electronic tolling program, EZPass.

While getting his hands dirty with electronic toll collection, Peter cracked open the toll tagging industry and initiated probe-based surveillance and incident detection systems.

In a strategic family move, Peter ventured west and continued his career, focusing on the design and development of numerous highly visible traffic information services, large scale data and video management and distribution systems, autonomous highway operations and itinerant event management operations.

### Kelsey Judd

Kelsey Judd has been working on infrared technologies as a systems engineer and project manager since 2012, with specific focus on Automotive since 2018. He holds a bachelor's degree in electrical engineering and a master's degree in technology management from the University of California, Santa Barbara.

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# SPEAKERS

## Captain James Cartier

Captain John Paul Cartier has served with the Arizona State Troopers for 16 years. Captain Cartier started his career in Camp Verde where he became the first state trooper Drug Recognition Expert (DRE) and phlebotomist. Captain Cartier received the Mothers' Against Drunk Driving officer of the year award, twice, for high DUI enforcement activities, unwavering commitment, and dedication to removing impaired drivers from the road.

Captain Cartier transferred to the Metro Patrol Bureau, Motorcycle District in metropolitan Phoenix and served as a motorcycle instructor and field trainer. Captain Cartier received the Motorcycle District Trooper of the Year award. After five years in motors, Captain Cartier transferred to the Highway Patrol Division Staff and spent the next two years working on Division wide safety projects, personnel matters, procurement projects, and policy reviews. Captain Cartier was responsible for transitioning the state troopers police vehicle platform to the next generation of equipment and technologies being used throughout the Department's fleet of patrol vehicles today. Captain Cartier received the Department's Director's Special Recognition Award for his work in the Highway Patrol Division.

Captain Cartier transferred to the Arizona Counter Terrorism Information Center (ACTIC), Intelligence Squad investigating criminal activities. In 2014, Captain Cartier was promoted to sergeant and assigned to build the Department's new Traffic Operations Center (TOC) Co-Location project. This public safety partnership between ADOT, MAG, Federal Highways Administration (FHWA), and AZDPS is used as a national model and business case for traffic incident management strategies around the country.

Captain Cartier returned to the Highway Patrol Division staff advancing and supporting the Department's Statewide Impaired Driving Program, Statewide Traffic Incident Management (TIM) Program, Traffic Operations Center (TOC) Program, traffic safety initiatives and research projects, fatality reduction efforts, wrong-way driving initiatives, Police Allocation Modeling (PAM), and the FHWA EDC-4 National TIM Committee. Captain Cartier continues to serve as Chair of the Maricopa County AZTech TIM Coalition. In October 2018, Captain Cartier was assigned to the Metro West District, District Commander position. He continues to serve in different capacities throughout the agency.

## SPEAKERS

### **Juan Francisco Padrés (JP)**

Juan Francisco Padrés also known as JP, is the Public Affairs Manager for the autonomous trucking company TuSimple. Based in Tucson, AZ, JP is responsible for government, business, and community outreach in Arizona, New Mexico and Texas.

Born and raised in Nogales, Sonora, Mexico, Juan studied at the University of Arizona where he earned his BA in Political Science and his MBA from the UA Eller College of Management. Previous work experience has been at the City of Tucson where he served as the Economic Development and International Trade Specialist, as well as in the private sector with companies such as JPMorgan Chase, Wells Fargo, and as an entrepreneur and business owner in Tucson.

Juan is married to his wife, Maria Paloma, and they have two daughters, Paloma and Rebeca, and a beagle named Bruno. Juan enjoys spending his spare time in San Carlos, Mexico with friends and family, and is an avid skier in the winter months.

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# LOCAL AGENCY UPDATES

## New Mexico Department of Transportation

CN 1101740:

Installation of automated dust storm detection system along I-10 in the La Playa area that ties together five (5) RWISs (roadside weather information systems); five (5) CCTVs (closed circuit television systems); two (2) DMSs (dynamic message signs); VSLs (variable speed limit systems) and flashing beacons for the EB and WB approaches to La Playa – all tied together with fiber optics installation from mm 0 (AZ state line) to mm 21 (West Lordsburg)

CN 9900746:

Fiber optics installation and ITS deployments in Las Cruces along I-25 from mm 0 to mm 7

CN A300768:

Fiber optics installation along I-40 from mm 132 to mm 139.5 (Bernalillo County Line to Rio Puerco)

## Bernalillo County

The InSync adaptive equipment was installed at the intersections of Rio Bravo & I-25 and Rio Bravo & Broadway. PTZ cameras were also installed at these two intersections. The County is currently working on the design to install the InSync adaptive system on Rio Bravo from Prince St. to Loris. This project will also include extending the fiber from Del Rio to Loris. This project should be completed sometime in 2020.

## City of Albuquerque

Automated Traffic Signal Performance Measures

Operational:

- Coors Blvd from Ellison to Central
- Central Ave from Coors to Louisiana (the ART corridor)

2019 - 2020 ATSPM Construction:

- Zuni Rd from Washington to Central
- Alameda Blvd from San Pedro to Edith
- East Central from Louisiana to Tramway

ITS Albuquerque Traffic Management System Phase XVII closed out.

Locations:

Rio Grande, 12th St, Edith, Old Coors, Atrisco, Ouray, and Westside

ART Bus Preemption

# LOCAL AGENCY UPDATES

## MRCOG

The ITS Subcommittee is comprised of regional ITS Stakeholders within the AMPA and is maintained by the MRCOG for ITS planning issues. The ITS SC coordinates with the Congestion Management Process committee, the Traffic Monitoring Program, and all other groups in support of federally mandated programs for project planning and coordination as well as data collection and analysis. Over the past year, notable action included the committee review and approval of projects for the 2020-25 TIP, update of the Regional ITS Infrastructure GIS, provided updates for the 2040 MTP revision, and initiated the scope for a Traffic Incident Management Plan for the AMPA which will be underway at the time of this conference. MRMPD continues to monitor travel patterns for the Northwest portion of the AMPA using WiFi devices and will be expanding the coverage with additional devices this Fall in collaboration with Bernalillo County, NMDOT-ITS, City of Rio Rancho, and with the expansion will include City of Albuquerque.

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