The Changing Road Ahead
68th Arizona Conference on Roads & Streets

April 17-19, 2019

Westin La Paloma Resort & Spa
3800 East Sunrise Drive
Tucson, AZ 85718

Registration Information

The conference registration fee is $350 per person prior to March 1st, which includes:

- Countless Networking Opportunities!
- Outstanding Speakers and Presentations offering over 50 Professional Development Hours
- Interaction with 100+ Trade Show Vendors
- Wednesday Opening Session & Tradeshown Reception
- Thursday Educational Sessions, Continental Breakfast, Lunch & Evening Reception
- Friday Educational Sessions, Continental Breakfast & Lunch

To receive the $350 early registration fee, register for the conference by March 1st at http://www.event.com/d/ybq9hq/4W

NO REFUNDS will be given after March 1, 2019.

After March 1, 2019, the conference registration fee increases to $425 per person, which includes on-site registrations. Sorry, there are no one-day, partial day, or shared registration packages available.

Spouse/Significant Other Registration for the Conference is $150, which includes all meal functions and access to the trade show. Children must be accompanied by an adult in the tradeshow, food, and reception areas.

Roads & Streets registration does not include the Wednesday Southern Branch APWA Scholarship Golf Outing. To register, please visit http://arizona.apwa.net/EventDetails/17172.

All program times, speakers, and rooms subject to change. For program updates, visit www.acecaz.org.

Mobile App Innovation by WSP
Lodging

All reservations for the Westin La Paloma Resort & Spa are processed through ACEC of Arizona. Priority is given to trade show vendors, conference sponsors, and public agencies. Sponsorship and exhibitor information available at www.acecaz.org or by calling 602-995-2187. The nightly room rate for the Westin La Paloma Resort & Spa is $99++ (parking included.)

The Westin La Paloma Resort & Spa Room Block is SOLD OUT!

Overflow lodging provided by:

SOLD OUT!
Loews Ventana Canyon Resort
7000 N. Resort Drive, Tucson, AZ 85750
Conference Room Rate: $99++

SOLD OUT!
Westward Look by Wyndham
245 E. Ina Road, Tucson, AZ 85704
Conference Room Rate: $91++

Embassy Suites by Hilton La Paloma Village
3110 East Skyline Drive, Tucson, AZ 85718
Conference Room Rate: $159++ (parking included)

Rooms are available on a first come, first served basis. Please contact ACEC of Arizona at 602-995-2187 or administration@acecaz.org to make your reservation today!

For your convenience and improved conference experience, complimentary, continuous shuttle service will be provided to guests lodging at offsite properties throughout Thursday, April 18, 2019.

**ACEC of Arizona is actively working to secure additional rooms at a negotiated conference rate with several offsite properties, which will be eligible for complimentary, continuous shuttle service on Thursday, April 18, 2019. Please contact us directly for assistance with lodging! **

Contact

The American Council of Engineering Companies of Arizona is responsible for the administration of the 68th Arizona Conference on Roads & Streets. For assistance, ACEC of Arizona may be reached at 602-995-2187 or administration@acecaz.org.

Conference Committee

Co-Chairs Scott Sayles & Chuck Reynolds

Beth Abramovitz          Darlene Danehy *
David Atler              Brian Davis
Paul Baca *              MariaAngélica Deeb *
Trace Baker              Jim DeGrood
Paul Balch               Shameem Dewan *
Amara Boesch             Diana Dunn *
Kathy Borquez            Duane Eitel
Stephanie Brown          Randy Everett
Quinn Castro             Al Field
Geoff Child *            Skye Gentile *
Ryan Circello            Marta Gerber
Esther Corbett           Alberto Gonzalez
Chaun Hill               Karen Hobbs
Kooi-Lim Hoe             Heather Honsberger
Denis Howe               Bruce Kay
Kelly Kaysonepheht *     Diana Kelly *
Jeff King                Scott Kirchhofer
Katy Konik               David Lenzer *
John Liosatos          Karla Petty          Aderson Vieira
Dan Marum *           Karla Reeve-Wise     Teresa Welborn
Amanda McGennis *     Ella Reinert          Toni Whitfield
Bob Mickelson         Josiah Roberts        Alf Wold
Dale Miller           S. Loretta Roberts    Tim Wolfe *
Debbie Mohney         Jeanne Sapon          Beth Wright
Amy Moran             Anthony Sarhan        Dave Zaleski *
Steve Ogburn          Jim Schumann
Rosa Olivas           Jason Simmers
Casey Peery           Darek Smith
Phoebe Pierce         Ravi Sripada

* Indicates Track Lead
Wednesday, April 17th

6:30 a.m. Registration – Southern Arizona Branch APWA Scholarship Golf Outing
Shotgun start 7:30 a.m. at Quarry Pines Golf Club. For details, registration, and sponsorship opportunities, please visit http://arizona.apwa.net/EventDetails/17172.

2:00 p.m. to 7:30 p.m. – Roads & Streets Conference Registration Open … Foyer

Conference Opening Event

4:15 p.m. to 5:30 p.m. – Sonoran I & II

Sponsored by

Gannett Fleming

Introductions by Karla Petty
Arizona Division Administrator
Federal Highway Administration

National Dialogue on Highway Automation
Overview & FHWA D.C. Update

Brandy Hendrickson
Deputy Administrator
Federal Highway Administration

Brandy Hendrickson, FHWA Deputy Administrator, will provide an overview of the 2018, Federal Highway Administration (FHWA) National Dialogue on Highway Automation with partners and stakeholders, as well as the public at-large, where they sought to receive broad input on key areas of interest and prepare FHWA programs and policies to incorporate automation considerations. The National Dialogue on Highway Automation was a series of meetings held across the country to facilitate information sharing, identify key issues and support the transportation community to safely and efficiently integrate automated vehicles into the road network.

The session will conclude with a report of the latest FHWA news from Washington, D.C.
Thursday, April 18th

Continental Breakfast with Tradeshow Exhibitors
7:00 a.m. to 8:15 a.m. … Canyon Ballroom

General Opening Session

7:45 a.m. to 9:00 a.m. – Sonoran I & II

Sponsored by

Autonomous Vehicles & The Changing Road Ahead

Please join us for an exciting panel discussion with industry leaders on vehicular, infrastructure and policy issues and needs related to autonomous vehicles. The panel will highlight challenges and successes of Arizona autonomous vehicular projects as well as discuss the future of the transportation industry as it relates to autonomous vehicles and The Changing Road Ahead!

Moderated by Dr. K. Larry Head
Interim Dean, College of Engineering
University of Arizona

Mr. Kevin Biesty
Deputy Director for Policy
ADOT

Mr. Ed Bradley
Program Manager
TOYOTA

Mr. Robert Brown
Director of Public Affairs
TuSimple

Ms. Dezbah Hatathli
Local Policy Manager
Waymo
Confessions of a P3 Contractor
Speakers: Julie Gadsby, PE, Assistant DE, ADOT; Travis Legare, Segment Manager, Connect 202/Ames Construction; Kole Dea, Senior Resident Engineer, ADOT

Construction progress on the South Mountain SR 202L has been an eye-opening experience for ADOT when it comes to the advantages and challenges of a BIG P3 project in a metropolitan location. Connect 202 Partners and ADOT will discuss insights and cautions that may be translated to future projects.

The NTSB & Automated Vehicle Crash Investigations
Speaker: David Pereira, Highway Crash Investigator, National Transportation Safety Board

The National Transportation Safety Board’s role in investigating transportation and its advocacy for transportation safety will be highlighted, including the Most Wanted List of top safety improvements, NTSB’s road map from lessons learned to lives saved, and an overview of recent automated vehicle crash investigations.

Speaker: Phillip “Phil” Sirles, Senior Geophysicist, Collier Geophysics

This presentation details geophysical technologies for subsurface characterization that currently provide roadway industry personnel faster and improved knowledge of the subsurface to required depths. Additionally, there will be a discussion of the two-year (2019-2020) Everyday Counts Initiative (EDC-5) for implementation of five specific geotechnical technologies.

RTA Updates: What’s Going on in Pima and Pinal Counties?
Speakers: James DeGrood, Deputy Director, Regional Transportation Authority of Pima County; Andrew Smith, General Manager, Pinal Regional Transportation Authority

The Pinal County RTA is weathering an adverse ruling in its lawsuit with the Goldwater Institute, while the Pima County RTA is considering a trip back to the polls to extend its taxing authorization. Hear the latest from Pima and Pinal RTAs.

Drone Applications in Traffic Engineering
Speakers: Darlene Danehy, PE, PTOE, RSP, Assistant Project Engineer; Luana Broshears, PhD, PE, PTOE, RSP, Traffic Engineer; Jose Aguilar, PE, ENV SP, Civil Engineering Designer; Psomas

Drones have become a very useful tool in many industries, and civil engineering is one of them! This presentation will cover how drones have been used effectively for parking studies, operational analyses, projects in remote locations, and tracking construction progress. From flying the drone to preparing deliverables, you will see it all!

Sliding Your Bridge into Place
Speakers: Olivier Mirza, Senior Bridge Engineer & Project Manager; Burgess & Niple, Inc.; Travis Butz, Senior Bridge Engineer, Burgess & Niple, Inc.

Through innovative thinking, the Milton Madison Bridge over the Ohio River was constructed on temporary piers and moved into place using a lateral slide, all while maintaining traffic. The slide of the 2,426-foot-long steel truss is the largest on record in the U.S. and was a truly amazing accomplishment.

Thursday, April 18th
10:25 a.m. to 11:25 a.m.

Construction of the PHX Sky Train at the Phoenix Sky Harbor International Airport
Speakers: John Niedzielski, PE, Principal Geotechnical Engineer, Gannet Fleming; Eric Niec, Project Superintendent, Hensel Phelps; Kyle Nelson, Project Manager, Hensel Phelps

The PHX Sky Train is a 5-mile long automated people mover system located at Phoenix Sky Harbor International Airport. This presentation will provide an overview of the project and delve into the construction challenges overcome in order to successfully construct the elevated and below-grade guideways and stations for this $745 million project.

Stop, Collaborate & Listen! Tips for How to Build Rapport & Relationships with Engineers
Speakers: Haley Estelle, Community Outreach Manager, HDR; Marsha Miller, Public Involvement Project Manager, HDR; Terry Gruver, Strategic Communications Manager, HDR; Ben Spargo, Senior Project Manager, HDR; Angela Horn, Senior Planner, MCDOT; Teresa Welborn, Administrator, MCDOT

Working with multidisciplinary teams can be challenging at times, but by asking the right questions, developing a shared vision and common goals, success is possible! Learn about best practices that help foster collaboration and mutual respect, without hampering creativity and overall project goals.

Automation Disruption: What can we do? A Local Perspective of CAVs on AZ Roadways
Speakers: Jennifer Toth, Director of Transportation/County Engineer, MCDOT; James Smith, Economic Development Innovation Manager, City of Chandler; Sergeant Steven Carbajal, City of Tempe Police Department; Lieutenant Colonel Wayde Webb, Arizona Department of Public Safety

Agencies in Arizona must prepare for Automated Vehicle (AV) testing and pilot Connected Vehicle applications on their roadways. A panel representing Arizona agencies will share their perspectives followed by a moderated Q&A.

EDC-5 Value Capture: Capitalizing on the Value Created by Transportation Investment
Speaker: Kevin Moody, Federal Highway Administration

The Value Capture revenue mechanisms and techniques are means of generating new revenue streams for transportation from currently untapped project beneficiaries. This presentation discusses the challenges and opportunities related to implementing TCRP Research Report 190 and NHCRP 873.

What’s Next for the Loop?
Speakers: John Spiker, PE, Project Manager, Pima County Regional Flood Control District; Alejandro Angel, PhD, PE, RSP, Enhancement & Expansion Chair, Pima County Loop Advisory Committee

The Loop is a ring of more than 120 miles of shared-used paths around Tucson, connecting dozens of areas and land uses. This presentation will cover plans for the future of the Loop including proposed extensions, enhancements to existing sections, and considerations for e-bikes, electric scooters and other forms of transportation.

Jim Conroy ... Indigo

Gilbert’s First Major Horizontal Directional Drilling of Gravity Sewer Saves Town Time & Money
Speakers: Brian Froelich, Achen-Gardner Construction; Ricky Holston, Sunrise Engineering, Inc.

Follow along as we present the development highlights of the design and construction for the first major horizontal directional drilling of a gravity interceptor sewer in a key arterial roadway (Baseline Road) for the Town of Gilbert. This alternative method provided a significant time and cost savings to the Town while minimizing road closures and impacts to the public.

Geoff Child ... Verbena

Lessons Learned from Bats in Bridges
Speakers: Joel Diamond, Regional Supervisor, Arizona Fish & Game Department; Joshua Fife, Biology Team Lead, ADOT; Ron van Ommeren, Wildlife Biologist, EcoPlan Associates, Inc.; Sandy Wolf, Wildlife Biologist, RD Wildlife; Justin Stevenson, Wildlife Biologist/Bat Exclusion Specialist, Bat Research & Consulting

The presence of bats in bridges planned for replacement presents challenges for design, Environmental/NEPA approvals, and construction. This presentation includes a review of four recent projects and the effects the presence of bats had on project planning, design, environmental clearance, construction, schedule, and effectiveness of exclusion methods and mitigation.

Ron van Ommeren ... Lantana

Applying Data-Driven Research to Real-World Traffic Operations Issues
Speaker: Yao-Jan Wu, Assistant Professor, University of Arizona

The University of Arizona has been partnering with multiple transportation agencies to develop innovative data-driven approaches for efficient arterial and freeway operations. This presentation will showcase several applied research projects, linking research to real traffic operation issues.

MariaAngélica Deeb ... Aster

Thursday, April 18th
11:30 a.m. to 12:30 p.m.

A Road Map to Arizona’s Transportation Future
Speakers: Audra Koester Thomas, Transportation Planning Program Manager, MAG; Kathryn Skinner, Analysis & Programming Division Manager, Pima County; Christopher Bridges, Administrator, CYMO

How will Arizona navigate its transportation future? A three-member panel will offer insight from around the state into future funding considerations, the need for flexibility within the planning process, and the importance of communicating the value proposition for transportation investments to the traveling public.

S. Loretta Roberts, Randy Everett & Quinn Castro ... Murphy

Small Wireless Facilities in the ROW
Speaker: Kevin Sonoda, Special Projects Administrator, City of Phoenix

As 5G wireless services are slated to launch in 2020, local governments will be scrambling to process and manage the installation of hundreds (and up to several thousand) of small wireless facilities on streetlights and signal poles in the ROW.

*Geoff Child ... *Finger Rock*

**Hidden Value of Public Involvement**
Speakers: Kelly Cairo, Senior Project Manager, GCI; Taylor Baker, Bilingual Community Outreach Specialist, GCI; Alberto Granillo, Bilingual Community Outreach Specialist, GCI

More than checking the obligatory box, a good public involvement plan can provide far-reaching results for your project. Discover the hidden value of effective public involvement through real world examples and on-the-spot participation exercises.

*Amara Boesch ... *Sonoran I*

**Race to the Top: Arizona HSIP Statewide Funding Competition**
Speakers: Mona Aglan-Swick, ADOT; Kerry Wilcoxon, ADOT

In Arizona, 60% of fatal crashes occur on local roadways. With only 20% of HSIP safety funds going to address local roadway needs, ADOT switched to a statewide competition based on benefit to cost ratios resulting in nearly 60% of HSIP funds now being directed where they are most needed. Speakers will provide an update on early results as well as plans for the future.

*Jeff King ... *Sonoran II*

**The Other P3: Project Procurement Preferences**
Speakers: Wylie Bearup, PE, PhD, Professor of Practice, Arizona State University; Jeffrey Feghaly, Graduate Research Assistant, Arizona State University

CMAR! Design Build! Design-Bid-Build! Different project procurement methods are tools in the tool box used to maximize what a capital improvement program can deliver. ASU Professor Bearup and Mr. Feghaly will discuss these methods, their benefits, and their risks.

*David Lenzer ... *Indigo*

**Big Bicycling Data: Using Crowdsourced Data to Inform Bicycling Decisions**
Speaker: Trisalyn Nelson, Professor & Director, Geographical Sciences & Urban Planning, Arizona State University

With only 30% of bicycle crashes reported to official sources and limited bicycle volume data available, crowdsourcing tools are being used to fill data gaps. However, crowdsourced data are biased towards those that use technology. Lean how a team is developing new techniques to collect crowdsourced bicycling safety data (BikeMaps.org) and correct bias in Strava sampled bicycling volume data.

*Darlene Danehy ... *Verbena*

**Inspecting the Iconic Golden Gate Bridge: A Towering Feat!**
Speakers: Jason Nauman, Phoenix Bridge Group Manager, HDR, Inc.; Spencer Tucker, Bridge Engineer, HDR, Inc.

Rope access and fracture critical bridge inspection services for the iconic 81-year old Golden Gate Bridge included intensive inspection of select floor beams, truss members and the first close-up inspection of the tallest suspension towers in the U.S. all under very challenging conditions.  

Dave Zaleski ... Lantana

NAU & Recent ABOR Research
Speakers: Dr. Edward Smaglik, Northern Arizona University; Dr. Chun-Hsing Ho, Northern Arizona University; Dr. Brendan Russo, Northern Arizona University; Dr. Amin Mohebbi, Northern Arizona University

The content of this presentation is based on a two-year research project funded by the Arizona Board of Regents (ABOR). Topics include intelligent sensing systems, factors affecting traffic safety on Arizona interstates incorporating weather prediction models, and methods for prediction of potential dust storms in the Phoenix-Tucson-Flagstaff Megaregion.  

MariaAngélica Deeb ... Aster

Trade Show Bag Lunch
12:35 p.m. to 1:30 p.m. – Canyon Ballroom

Sponsored by Kiewit

Thursday, April 18th
1:30 p.m. to 2:30 p.m.

Rapid Street Technologies
Speaker: Alan Eckman, Vice President, AECOM

New rapid speed systems (such as Hyperloop) are being developed and offer new potential as part of a system of future transportation options for both freight and passengers. Learn about feasibility studies conducted in Colorado and how advanced technology is changing the trajectory of transportation.

Josiah Roberts ... Murphy

If It Ain’t Broke, Don’t Fix It
Speakers: Margaret Herrera, PE, Transportation Safety Program Manager, MAG; Dana Biscan, PE, Project Manager, Burgess & Niple; Kendra Schenk, PE, PTOE, Project Manager, Burgess & Niple

Safety is a key metric when prioritizing projects within a city or county’s CIP. This presentation will use real project examples to illustrate how safety analyses were used to justify and implement practical design solutions, evaluate multiple alternatives, and prioritize projects.

Ravi Ambadipudi ... Finger Rock

Dust: Track It or Die
This presentation will showcase the Dust Storm Detection system being installed alongside the I-10 widening project in the area of Eloy. The system will use visibility sensors, weather radar, variable speed limit signs, and digital message boards, to aid TOC operators in monitoring and managing traffic in the corridor.

Driving the Future of Transportation: A Valley Metro & Waymo Partnership
Speaker: Rob Antoniak, Valley Metro Chief Operations Officer, Valley Metro

Transit agencies are embracing and adapting to a shift in how best to meet the needs of customers through technology and partnerships with new mobility providers. Join us to learn how agencies are fostering innovation in areas such as system integration, partnerships, innovative business models, equity of service delivery, as well as leveraging federal programs like the FTA’s MOD Sandbox grants to improve mobility.

Tempe's Path to Vision Zero
Speakers: Julian Dresang, Senior Traffic Engineer, City of Tempe; Yung Koprowski, Principal Engineer, Y2K Engineering

The City of Tempe is the first city in the State of Arizona to embrace Vision Zero - a transportation safety strategy with a goal of eliminating fatal and serious injury crashes. City staff and consultants will educate attendees about Vision Zero and Tempe's path to improved public safety.

Making a Mountain out of a Molehill: How P3s are Suited for Bundling Small Projects
Speakers: Gail Lewis, Director, ADOT Office of P3 Initiatives; Grant Holland, Vice President, P3 Transition Advisory, Mott MacDonald

Gail Lewis, ADOT, and Grant Holland, Mott MacDonald, will discuss how bundling several small, or like, DBB projects into a P3 can expedite delivery and manage consistency.

What to Expect When You’re Not Expecting an Archaeological Discovery: Lessons from Highway Widening along State Route 86
Speakers: Deil Lundin, Principal Investigator, AZTEC Engineering Group; John Langan, Project Director, AZTEC Engineering Group; Bharat Kandel, Project Manager, ADOT; Kris Powell, Cultural Resources Project Manager, ADOT

Widening along 30 miles of State Route 86 prompted the investigation of 25 archaeological sites where buried deposits were more extensive and significant than anticipated. This experience contains useful lessons for project planners!

Thursday, April 18th
2:45 p.m. to 3:45 p.m.

Construction Specification Panel Discussion
Speakers:  David A. Janover, PE, F. NSPE, CFM, City of Avondale; Rob Kidder, PE, Assistant City Engineer, City of Mesa; Gregg Kent, PE, CFM, Principal Engineer, City of Tempe

How do owners handle specification variation requests from contractors? Representatives from municipalities throughout the state will offer their perspectives during this panel discussion.

Jeff Kramer ... Murphy

2018 MAG SM&O Plan: Laying a Foundation for the Changing Road Ahead
Speaker:  Margaret Herrera, PE, Transportation Safety Program Manager, MAG

This session will provide an overview of the implementation of the strategies outlined in the MAG Systems Management and Operations Plan approved in 2018. Learn how the MAG SM&O builds on past momentum, addresses regional operations, and lays the groundwork for emerging technologies for the changing road ahead.

Reza Karimvand ... Finger Rock

Persuasive Storytelling with Data
Speaker:  Randy Kutz, Owner, Soft Skills Training 360, LLC

Storytelling is a key tool of influence to get buy-in when implementing change. To quote Mark Twain, “There are three kinds of lies: lies, damned lies and statistics.” It is also said that, “data doesn’t lie; people do.” Learn what essential ingredients to include in your story to move people with your data.

Amara Boesch ... Sonoran I

How Other Governments are Using P3
Speakers:  David Spector, Executive Director, Colorado High Performance Transportation Enterprise (HPTE); Gail Lewis, Director, Office of P3 Initiatives, ADOT; Kathryn Roos, Interim Director, Office of Public Private Partnerships, District of Columbia

Representatives from various cities and states will discuss the ways in which they are using their P3 authority in the transportation space.

Stephanie Brown ... Sonoran II

The Greater Phoenix Metro Green Infrastructure Handbook: A New Public/Private Sector Tool for Alternative Stormwater Water Management
Speakers:  Anne Reichman, Sustainable Cities Network, Arizona State University; Tim Conner, City of Scottsdale; Harry Cooper, Flood Control District of Maricopa County

Research meets practicality! Green Infrastructure & Low Impact Development in the desert provides public & private sector development with alternative means to best manage stormwater, comply with regulations, and beautify streets & local landscapes in Maricopa County.

Anne Reichman ... Indigo

Data-Driven HAWK Signal Prioritization
Speakers: Darlene Danehy, PE, PTOE, RSP, Assistant Project Manager, Psomas; Luana Broshears, PhD, PE, RSP, Traffic Engineer, Psomas; Steve Wilson, PE, Civil Engineer, Pima County Department of Transportation

Pima County is pursuing a program to improve pedestrian safety on County roadways, including the installation of HAWK pedestrian signals. To identify and prioritize the most effective locations for HAWK signals, a three-step process of data screening, prioritization/scoring, and detailed study was developed.

Jim DeGrood ... Verbena

Making CFRP Work for Bridge Rehabilitation
Speakers: William Downes, ADOT; Mo Ehsani, QuakeWrap, Inc.

Repairing prestressed concrete bridge girders damaged from vehicle impacts is a major challenge. ADOT's first Carbon Fiber Reinforced Polymer (CFRP) application to strengthen bridge girders quickly and successfully completed repairs on two bridges on the I-17 with minimal traffic disruption.

Brian Davis ... Lantana

ADOT/Industry Specification Update of MSE Walls and Drilled Shaft Foundations
Speaker: Brent Conner, PE, ADOT

ADOT, in collaboration with AGC, ACEC, and industry suppliers, has updated the specifications for Mechanically Stabilized Earth Walls and Drilled Shaft Foundations. The goals of the specification updates were to reduce construction phase duration, acceptance process inefficiencies, and incorporation of new technologies. Goals accomplished? Join us to find out!

Shameem Dewan ... Aster

Trade Show Closes at 4:30 p.m.
Thursday, April 18th
4:00 p.m. to 5:00 p.m.

Safety Analyst & Predictive Crash Modeling in Arizona
Speakers: Kerry Wilcoxon, State Traffic Safety Engineer, ADOT; Saroja Devarakonda, Safety Analysis Program Manager, ADOT

ADOT is converting the safety analysis process to predictive crash modeling using the Safety Analyst (SA) software tools. Speakers will provide an overview of the process including the current status of efforts and expected future application of the program to state and local safety projects.

Jeff King ... Murphy

Improving Projects Using the Value Methodology
Speakers: Renee Hoekstra, CVS, RHA, LLC; Patrice Miller, CVS, RHA, LLC
Too often the definition of value engineering is cost cutting, but at what cost? The value methodology can help to improve your projects through such things as performance enhancements; schedule, environmental impact, and reduced impact to the traveling public to name a few – it’s about improving Value, not taking it away.

*MariaAngélica Deeb ... *Finger Rock

**Using Transportation Assets to Promote Local Economic Development**

Speakers: Danielle Folke, Interim Director, Community Development, City of Flagstaff; Gail Lewis, Director, Office of P3 Initiatives, ADOT; Walter Crutchfield, Principal, Vintage Partners

How ADOT’s P3 authority led to a partnership with the City of Flagstaff and Vintage Partners that will enliven the Milton Road corridor. With roadway improvements, additional student housing, and new retail opportunities, this partnership has it all!

*Stephanie Brown ... Sonoran I*

**Trenchless Constructability “Know How” for Utilities Design**

Speaker: Arvid Veidmark II, Trenchless Constructability & Design

Constructability for trenchless design tackles head-on the issue of trenchless methods and determining which are best suited for a particular project. Considerations including location, soil condition, and project type will be discussed.

*Geoff Child ... Sonoran II*

**Concrete Pavement Performance and Preservation**

Speaker: Larry Scofield, Director of Engineering & Research, International Grooving & Grinding Associations

This presentation will review the lessons learned from the world’s largest on-going concrete pavement research project. Five design features have been evaluated in a national experiment over the last 18-26 years, which means the entire story may be told. In addition, the results of national surveys on concrete pavement preservation treatment life will be reviewed.

*Bruce Kay ... Indigo*

**Gone in a Flash**

Speakers: Diahn Swartz, PE, PTOE, Traffic Engineering Manager, City of Tucson; Paul Burton, TSOS, Traffic Signal Operations Manager, Town of Sahuarita

The City of Tucson is installing flashing yellow arrows (FYA) for left turns on both new construction and retrofit projects. The City is realizing both operations and safety benefits from these improvements. This session is FYI on FYA.

*Darlene Danehy ... Verbena*

**Arizona’s Aging Bridges**

Speaker: Jerry A. Cannon, PE, SE, Bridge Engineer, Cannon Consultants, LLC
Demonstrating that engineers can make a difference, the rehabilitation of Arizona's Willow Creek Bridge, Woodruff-Snowflake Bridge, and Cheney Wash Bridge prove that reducing costs while keeping our bridges safe is possible.

*Shameem Dewan ... Aster*

**Closing Reception & Tradeshow Drawing**

5:15 p.m. to 6:30 p.m. – *The Pavilion*

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*Sponsored by* *GARDNER*

**Friday, April 19th**

**Continental Breakfast with Tradeshow Exhibitors**

7:00 a.m. to 9:15 a.m. … *Canyon Ballroom*

**14th Annual Arizona Transportation Partnering Excellence Awards**

7:15 a.m. to 9:15 a.m. – *Canyon Ballroom*

The Arizona Transportation Partnering Excellence Awards recognizes partnership teams that have demonstrated higher degrees of achievement through their practice of the Partnering principles and application of the Partnering processes throughout the transportation industry. The awards have been given annually since 2005.

Come celebrate with your peers and learn how your team can reach your coordination and communication goals more effectively by implementing similar partnering techniques as these award-winning projects. Presentations include pictorial summaries of this year’s most successful and interesting projects.
A Brief History of Federal-Indian Law and Policy: How Did Things Get this Way?
Speaker: Nathan Pryor, Policy & Government Relations Director, MAG

A presentation and discussion on the implications of federal law and policy and impacts to the development of tribal communities. Attention to Arizona tribes and how they are advancing their development agendas. Considerations in how to work with tribal communities will be presented and discussed.
Chaun Hill ... Murphy

Friday, April 19th
10:35 a.m. to 11:30 a.m.

Crash Data & the Development of the Navajo Strategic Highway Safety Plan
Speaker: Colyan Begay, Programs & Projects Specialist, Navajo Division of Transportation

A presentation on the developments in crash data collection for the Navajo Nation and how this data was utilized in the development of the Navajo Strategic Highway Safety Plan.
TBD ... Murphy

Viva Las Vegas: A Look at How an Iconic City Deployed the First Open Road Autonomous Shuttles in North America
Speaker: Chris Barker, Founder, CBC Consulting; Joanna Wadsworth, Civil Engineer/AV Project Leader, City of Las Vegas

The City of Las Vegas designed, and deployed the first autonomous shuttles to operate on open roads in North America. Find out how the project was developed and deployed on the streets of Las Vegas, the community response, and the ridership rate. What should be considered when deploying autonomous transportation options will be explored.
Chuck Reynolds ... Indigo

Friday, April 19th
9:30 a.m. to 11:30 a.m.

Professional Ethics While Driving the Economy of Transportation
Speaker: P. Douglas Folk, Attorney at Clark Hill PLC and former Public Member of the Arizona Board of Technical Registration

As business practices evolve with the use of funding mechanisms such as design/build and P3 project delivery models, consulting engineers face new challenges in prospecting for new business in states and in negotiating teaming agreements and contracts that comply with ethical standards. We will discuss how your business objectives can be met within the boundaries of professional ethics and state license board requirements.
Doug Nicholls ... Finger Rock

City Caucus
City Caucus is a venue that provides an opportunity for one-to-one communication and is a great venue where City/Town staff can discuss upcoming or past projects with those stopping by while also networking and responding to questions regarding their agency’s CIP and budget.

Participants include:

Buckeye, City of
Chandler, City of
Gilbert, Town of
Goodyear, City of
Phoenix, City of
Mesa, City of
Lake Havasu, MPO
Queen Creek, Town of
Oro Valley, Town of
Tempe, City of
Tucson, City of
Yuma, MPO

*MariaAngélica Deeb ... Sonoran I & II*

**ADOT Development Groups Open House**

Join the ADOT Development Groups in an open house format as they highlight their program areas and see how they collaborate with internal and external partners to deliver projects!

Participants include:

Right of Way Group
Utilities & Railroad Engineering
Environmental Planning Group
Project Management Group
Roadway Group
Traffic Group
Bridge Group
Contracts & Specification
Engineering Consultant Section
Joint Project Agreement Section
Local Public Agency
Project Resource Office

*Paul Baca ... Grand I & II*

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**Friday Lunch, April 19th**
11:45 a.m. to 1:15 p.m. – Canyon Ballroom

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Welcome & Introductions by
Lunch Sponsor

The Future of City Mobility

Chris Barker, Founder of CBC Consulting and Global Speaker on the Future of Transportation and Smart Cities, will host an interactive lunch discussion on how cities are undergoing extreme change in both their design and their urban populations. This discussion will examine how cities are changing before our eyes to accommodate new forms of mobility (self-driving cars, drone taxis, high-speed, integrated and electric transit) and technology that will reshape how cities are designed and operated now and into the future. We’ll also explore the benefits and unintended consequences of these changes.

Chris Barker is Vice President of New Mobility at Keolis helping to introduce new transportation options to cities and communities across North America. Keolis is a global transportation company that provides heavy rail, light-rail, bus, autonomous shuttles/taxis, car share, bike share, and sky tram service to 26 countries moving 3.5 billion people a year. Chris helped launch the first autonomous shuttle operations on open roads in North America – in downtown Las Vegas.

9th Annual Arizona Transportation Legacy Awards

Presentations by Kelly Kaysonapheth, AZTEC Engineering Group

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