Welcome to the 15th Arizona Pavements/Materials Conference

Following up with last year’s theme on “Embracing Pavement Technologies”, the theme for the 2018 Pavement/Materials Conference is focused on “Staying ahead of the Performance Curve”. This year’s agenda features:

• Innovation in Concrete Pavements
• Geotech to the Rescue - Challenges and Solutions
• Asphalt Performance Testing
• FHWA Mobile Asphalt Lab I-40 Case Study
• Connect 202 South Mountain
• FHWA's Incentive for Innovation
• Technology Updates
• Design, Build and Operate
• The Path to Autonomous Vehicles

Location
This two-day conference sponsored by Arizona State University (ASU), Arizona Department of Transportation (ADOT), Federal Highway Administration (FHWA), Arizona’s industry and local governments will be held at Arizona State University, Tempe Campus (1290 S. Normal Ave., Tempe, AZ 85281) on November 15-16, 2018 in the Memorial Union (MU). The MU serves as the central meeting and conference center for the ASU community.

Speaker presentations will take place in the Ventana Ballroom and Pima Auditorium. Exhibitors, Luncheons, Refreshment Breaks and Welcome Reception will be located in the Arizona Ballroom.

Parking at ASU
Visitor parking is available in the following parking structures

• Fulton Center Structure (Foundation Building) located at University Drive and College Avenue (NE Corner)
• Rural Road Structure located at Rural Road and Terrace Road (SW corner)
• Apache Blvd. Structure located at Apache Blvd and Normal Avenue (NW corner)

The cost of parking is included in your registration fee. Please bring your parking ticket to the registration table when you arrive to obtain a validation ticket.

ASU parking locations and maps are located at https://cfo.asu.edu/pts-visitor-tempe.

Accommodations
Visit our website https://pavement.engineering.asu.edu for a list of hotels conveniently located within walking distance of the campus. Call the hotel directly to make your reservation. ASU and government rates may be available.
## 2018 Conference Program

### DAY 1 | AGENDA  THURSDAY, NOVEMBER 15, 2018

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<th>Time</th>
<th>Session</th>
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<tr>
<td>8:00-10:00am</td>
<td><strong>REGISTRATION, EXHIBIT VIEWING</strong> - Continental Breakfast - Arizona Ballroom 221</td>
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</table>
| 10:00-10:30am | **OPENING SESSION:** Ventana Ballroom 241  
Moderator: Paul Burch, PE, ADOT and Kamil Kaloush, PhD, PE, ASU                          |
| 10:30-11:00am | **ASU Welcome Address**  
Ram Pendyala, PhD, Interim Director, School of Sustainable Engineering and the Built Environment, Arizona State University |
| 11:00-11:30am | **FHWA Overview**  
Peter Osborn, Director, Field Services West, Federal Highway Administration               |
| 11:30-12:00pm | **ADOT Overview**  
Dallas Hammit, Deputy Director for Transportation/State Engineer, Arizona Department of Transportation |
| 12:00-1:30pm  | **LUNCH:** Arizona Ballroom 221 (Community Service Awards Luncheon/Founders Award Presentation)  
Moderator: David Martin, President, Arizona Chapter-Associated General Contractors        |
| 1:30-2:00pm   | **SESSION 1:**  
**GEOTECH TO THE RESCUE - CHALLENGES AND SOLUTIONS**  
Ventana Ballroom 241  
Moderator: Paul Burch, PE, ADOT                                                        |
| 2:00-2:30pm   | **Geotechnical Challenges Related to the TBM for the Alaska Way Viaduct Replacement Project**  
Barry Sel, PE, FHWA Resource Center                                                       |
| 2:30-3:00pm   | **Pavement Reconstruction Challenges and Innovations on I-40 West of Flagstaff**  
Tad Niemyjski and Brent Conner, ADOT                                                      |
| 3:00-3:30pm   | **SR 77 Safety and Slope Stability**  
Brent Conner, Geotechnical Design Services Supervisor, ADOT                               |
| 3:30-4:30pm   | **GENERAL SESSION:**  
Ventana Ballroom 241  
Moderator: Kevin Robertson, ADOT                                                     |
| 4:30-6:00pm   | **WELCOME RECEPTION - STUDENT POSTER SESSION**  
Turquoise Ballroom | Arizona Ballroom  
Moderator: Joe Phillips, Terracon  
Door Prizes, Refreshments, Complimentary Bar  
All Conference attendees are invited to attend.                                      |

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*Note: Details about individual sessions and speakers are subject to change.*
### DAY 2 | AGENDA  
**FRIDAY, NOVEMBER 16, 2018**

#### 7:00-8:00am
- **REGISTRATION, EXHIBIT VIEWING, Continental Breakfast** - Arizona Ballroom 221

#### 8:00-8:30am
- **GENERAL SESSION: DESIGN BUILD AND OPERATE**  
  Ventana Ballroom 241  
  Moderator: Tom Buick, Consultant

  - US 550 Case Study  
    Paul Brasher, NMDOT

#### 8:30-9:00am
- **I-10 SPS2 Test Sections**  
  Larry Scofield, PE, International Grooving and Grinding Association

#### 9:00-9:30am
- **Connect 202 South Mountain (Pavement Design)**  
  Doug LaMont, WSP; Kevin Turner, KT Consulting; Steve Mishler, ADOT

- **Prime Factors for Successful Preservation Treatments**  
  Larry Galehouse, National Center for Pavement Preservation, Michigan State University

#### 9:30-10:00am
- **BREAK: Arizona Ballroom 221**

#### 10:00-10:30am
- **LUNCH: Arizona Ballroom 221**  
  (Sponsors/Exhibitors Awards Luncheon/Student Poster Competition Presentation/Witczak Endowment Presentation)  
  Moderator: Steve Trussell, Arizona Rock Products Association

  - **The Path to Autonomous Vehicles**  
    W.H. (Bill) Sowell, MBA, PhD, Vice President-Business Development, Eberle Design, Inc. & Reno A&E

#### 10:30-11:00am
- **SESSION 3: ASPHALT PERFORMANCE & PRESERVATION**  
  Ventana Ballroom 241  
  Moderator: Anthony Sarhan, PE, FHWA

  - FHWA’s Density Demonstrations in Arizona and other States  
    Tim Aschenbrener, PE, FHWA Resource Center

  - FHWA Mobile Asphalt Testing Trailer: Recent Experience in Arizona  
    Amir Golalipour, PhD, Project Manager, FHWA/ESC Inc.

- **ADOT’s SPR 742 Project**  
  Akshay Gundla, Graduate Research Associate, ASU/Staff Engineer, Applied Research Associates

#### 11:00-11:30am
- **Scrap Tire Recycling and the Use of Crumb Rubber**  
  Dawn Helms, CRM/Jeff Smith, Cactus Asphalt

- **Lime and Liquid Anti-Stripping Agents**  
  Richard Steger, PE, Platform Manager, Ingevity Pavement Technologies

#### 11:30-12:00pm
- **Use of Bio-Binder in Pavement Construction**  
  Ellie Fini, PhD, ASU

#### 12:00-2:00pm
- **LUNCH: Arizona Ballroom 221**  
  (Sponsors/Exhibitors Awards Luncheon/Student Poster Competition Presentation/Witczak Endowment Presentation)  
  Moderator: Steve Trussell, Arizona Rock Products Association

- **The Path to Autonomous Vehicles**  
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- **END OF CONFERENCE: Grand Prize Drawing**
The 2018 conference has several sponsorship packages available, providing sponsors with a choice of exposure related to financial commitment.

**Why Sponsor...**

- To raise your company profile
- To network
- To reach your target audience
- To demonstrate your company’s commitment to the pavements/materials industry

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**Conference Sponsorship Opportunities**

*ARIZONA PAVEMENTS/MATERIALS CONFERENCE*  
November 15-16, 2018

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**Sponsorship Agreement**

- **Level of Sponsorship:**
- **Company Name:**
- **Contact Person:**
- ****Attendee(s):**
- **Address:**
- **Email:**
- **Phone:**
- **Payment Method:**
  - Check (made payable to *ASU Foundation*)
  - Visa
  - MasterCard
  - American Express
- **Card #:**
- **Expiry Date:**
- **CCV code:**
- **Name on Card:**
- **Name completed sponsorship forms to:**
  - Attn: Judy Reedy
  - Arizona State University, School of Sustainable Engineering and the Built Environment
  - PO Box 873005
  - Tempe, AZ 85287-3005
  - Questions: Contact judy.reedy@asu.edu
  - (480) 965-1713

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**Silver Level Sponsor $1,000** (unlimited)
- Signage at the conference
- Recognition in the conference program
- Your logo and link to your website on the conference Website
- Award recognition during the conference Sponsor luncheon

**Bronze Level Sponsor $500** (unlimited)
- Signage at the conference
- Recognition in the conference program
- Your logo on the conference website
- Award recognition during the conference Sponsor luncheon

*If paid before print deadline.

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**Platinum Level Sponsor $3,000** (unlimited) (FMV = $550.00)
- Three (3) conference registrations (**provide names**)
- Opportunity to provide your sign displayed at the reception refreshment station
- Acknowledgement sign on reception tables
- Signage at the conference
- Recognition in the conference program
- Your logo and link to your website on the conference Website
- Acknowledgement during the opening session
- Award recognition during conference Sponsor luncheon

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**Gold Level Sponsor $2,000** (unlimited) (FMV = $275.00)
- One (1) conference registration (**provide name**)
- Signage at the conference
- Recognition in the conference program
- Your logo and link to your website on the conference Website
- Award recognition during the conference Sponsor luncheon

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**Conference Bag Sponsor $1,500** (no longer available)
- Your name imprinted on conference bags
- Signage at the conference
- Recognition in the conference program
- Your logo and link to your website on the conference website
- Award recognition during the conference Sponsor luncheon

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**Lanyard Sponsor $1,500** (one available)
- Your name imprinted on lanyards
- Signage at the conference
- Recognition in the conference program
- Your logo and link to your website on the conference website
- Award recognition during the conference Sponsor luncheon

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**Witczak Endowment Sponsor $1,500** (no longer available)
- Signage at the conference
- Recognition in the conference program
- Your logo on the conference website
- Award recognition during the conference Sponsor luncheon
Participating as an exhibitor at the 2018 Arizona Pavements/Materials Conference will demonstrate your level of support and commitment to the pavements / materials industry.

The undersigned hereby applies for space as an Exhibitor at the Arizona Pavements/Materials Conference. There are a limited number of exhibit spaces available for the conference on a first come/first serve basis.

The exhibitor registration fee of $950 includes one six foot table with two chairs and electricity in the Arizona Ballroom plus registration to the conference for two (2) people.

Register to be an Exhibitor - $950.00

☐ My check for $950.00 is enclosed payable to Arizona State University.

☐ I wish to pay with a credit card at the conference website https://pavement.engineering.asu.edu

Company Name: ________________________________

Name of attendees: (1) ________________________________

(2) ________________________________

Address: ____________________________________________

City/State/Zip: _______________________________________

Email: ____________________________________________

Phone: ______________________ Date: __________________

Exhibit space is limited. Tables will be assigned on a first come/first serve basis. All payments for exhibiting are due at the time of registration.

Please indicate here if you would like a vegetarian lunch. Attendee #1 ☐ Attendee #2 ☐

Requests for a vegetarian lunch will not be taken at the conference.
15th Arizona Pavements/Materials Conference • Staying Ahead of the Performance Curve
Early registration deadline is October 12, 2018

(Use this form if paying with a check or Purchase Order – Register online if paying with a credit card. https://pavement.engineering.asu.edu)

Attendee Information

Name: _____________________________________________
Company: __________________________________________
Address: ___________________________________________
City/State/Zip: _______________________________________
Email: _____________________________________________
Phone: ____________________________ Date: ________________________

Registration Fee Includes:
Entry to technical sessions, Thursday and Friday continental
breakfasts, luncheons, refreshment breaks, Welcome Reception
Thursday evening and parking during the conference.
Presentations will be posted on the website after the conference.
https://pavement.engineering.asu.edu

Cancellation Policy
Registrants unable to attend are encouraged to send a
substitute at no additional charge. No refunds will be

Attendee Profile
☐ Consulting Engineer ☐ Contractor ☐ Equipment Manufacturer
☐ Materials Testing Laboratory ☐ Materials Producer ☐ Other
☐ Materials Supplier ☐ Federal Government ☐ State Government
☐ County Government ☐ City Government ☐ Full-Time Student

Registration Fees

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<thead>
<tr>
<th></th>
<th>Thru Oct. 12, 2018</th>
<th>After Oct. 12, 2018</th>
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<tbody>
<tr>
<td>CONFERENCE REGISTRATION (2 days)</td>
<td>$275.00</td>
<td>$325.00</td>
</tr>
<tr>
<td>FULL-TIME STUDENT (2 days)</td>
<td>$25.00</td>
<td>$25.00</td>
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</tbody>
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Method of Payment (Please check one)

☐ Check Enclosed (made payable to Arizona State University)
☐ PO # __________________________

If paying with a credit card, please register online at
https://pavement.engineering.asu.edu

In order to assist with conference planning, please
check the conference events you will attend
(Open to all attendees):
Day 1 Lunch ☐ Indicate here for vegetarian meal. ☐
Day 1 Welcome Reception ☐
Day 2 Lunch ☐ Indicate here for vegetarian meal. ☐

Please Note: Request for a vegetarian lunch must be made on this
registration form. Requests will not be taken at the conference.

Submit this form to:

Attn: Judy Reedy
School of Sustainable Engineering
and the Built Environment
Arizona State University
PO Box 873005, Tempe, AZ 85287-3005
Fax: (480) 965-0557
Email: judy.reedy@asu.edu
As part of the Arizona Pavements/Materials Conference, three individuals who have made significant contributions to the advancement of the pavement/materials technology and programs in Arizona will be recognized and honored with a Pavements/Materials Conference Community Service Award to be presented during the luncheon on the first day of the conference, November 15, 2018.

One award will recognize a person working in the public sector - federal, state, local government agencies. The second award will recognize a person working in the private sector - contractors, consultants, material supplies, equipment suppliers, etc. and the third award will recognize someone in academia.

The basis for an award should be one or more of the following attributes:

- Exceptional contributions to technology enhancement relating to pavements/materials
- Excellence in implementing advanced technology into practice
- Excellence in bridging the gap between research and practice
- Exceptional contributions to the advancement of paving/materials programs in Arizona

The only restrictions on nominations are (1) recipients of the awards must conduct work in or reside in Arizona, and (2) members of the Award Selection Committee are not eligible.

Please use this form to submit your nomination by October 19, 2018. The Awards Selection Committee needs a concise paragraph outlining the basis for the nomination, emphasizing the notable contributions of the nominee to the pavements/materials program and/or industry in Arizona.

Nominations may be submitted at the conference website under the Service Awards tab or by completing this form and submitting it to:

Attn: Judy Reedy
School of Sustainable Engineering and the Built Environment
Arizona State University
PO Box 873005
Tempe, AZ 85287-3005

Fax: (480) 965-0557
Email: judy.reedy@asu.edu

https://Pavement.engineering.asu.edu

2017 Community Service Award Recipients

Mounir El Asmar, ASU
Bruce Kay, Ninyo & Moore
Wylie Bearup, ASU