# Transportation Infrastructure Conference

**TENTATIVE PROGRAM**

**Friday, November 18, 2016**  
**St. Pat’s Ballroom, Havener Center, Missouri University of Science and Technology, Rolla, MO**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Title</th>
</tr>
</thead>
</table>
| 8:30 – 8:50 | Welcome | Kamal H. Khayat, Chairman, Missouri S&T  
Opening Remarks – Richard K. Brow, Dean and Vice Provost, College of Engr. and Comp., Missouri S&T |
| Session #1: Novel Construction Materials and Systems | Moderator: William Stone, MoDOT  
8:50 – 9:30 | Atorod Azizinamini, Florida International University (keynote)  
Why Accelerated Bridge Construction? |
| 9:30 – 9:50 | Mohammad ElGawady, Missouri S&T  
Characterization and Shear Strength of Geopolymer Concrete |
| 9:50 – 10:10 | Xiong Zhang, Missouri S&T  
Use of Wicking Fabric to Dehydrate Road Embankment under Unsaturated Conditions |
| 10:10 – 10:35 | BREAK |
| Session #2: Novel Construction Materials | Moderator: Kamal H. Khayat, Missouri S&T  
Design of Concrete Mixtures for Additive Construction Challenges and Solutions |
| 11:15 – 11:35 | Sanjay Madria, Missouri S&T  
Smart Transportation and Monitoring using Internet of Things |
| 11:35 – 11:55 | Kwame Awuah-Offei, Missouri S&T  
Optimizing Mix Designs for Sustainable Management of Mineral Resources |
| 12:00 – 1:00 | LUNCH / STUDENT POSTER SESSION |
| Session #3: Sustainable Transportation | Moderator: Dave Ahlvers, MoDOT  
1:00 – 1:35 | Tom Blair, MoDOT, St. Louis District (keynote)  
Missouri’s Road to Tomorrow Statewide Initiative |
| 1:35 – 1:55 | Ruwen Qin, Missouri S&T  
A Simulation Study for Identifying and Understanding Drivers’ Behavior in Response to Alternative Sign Configurations |
| 1:55 – 2:15 | John Kevern, University of Missouri at Kansas City  
Influence of Joint Sawing Factors on Durability |
| 2:15 – 2:30 | BREAK |
| Session #4: Infrastructure Systems | Moderator: Lesley Sneed, Missouri S&T  
2:30 – 3:05 | Paul White, LafargeHolcim (keynote)  
Ultra High Performance Concrete, the Material, History, and Applications |
| 3:05 – 3:25 | Dimitri Feys, Missouri S&T  
How Bad Placement Can Hinder Concrete Performance |
| 3:25 – 3:45 | Raissa D. Ferron, University of Texas at Austin  
Engineering, smart, stimuli-responsive cementitious composites |
| 3:45 – 4:00 | Winners of Poster Competition and Closing Remarks – William Stone, MoDOT |