

# 45th Annual Midwest Geotechnical Conference

## AGENDA



Kellogg Center • 219 S. Harrison Rd., East Lansing, MI 48824

## Monday Evening, October 17

6:00 – 8:00	<b>Registration Desk</b>	<b>Outside KC Room</b>
6:00 – 8:00	<b>Reception</b>	<b>KC Room across from State Room Restaurant</b>

## Tuesday, October 18

### Session #1 Moderator – Dick Endres

7:00 – 4:40	<b>Registration Desk</b>	<b>Outside Room 103 A/B</b>
7:00 – 8:00	<b>Continental Breakfast</b>	<b>Room 103 A/B</b>
8:00 – 8:20	<b>Welcome and Opening Comments</b> <i>Randy Van Portfliet, P.E., Bureau of Field Services, Michigan DOT</i>	
8:20 – 9:10	<b>Remote Sensing Applications in Geotechnical Engineering</b> <i>Jim Siler, P.E., Michigan DOT; Chris Johncheck, P.E., Michigan DOT; Frank Boston, C.P., Michigan DOT; Andy Semenchuk, P.S., Surveying Solutions, Inc.</i>	
9:10 – 10:00	<b>Review of Recent Ohio DOT Geotechnical Research and Construction Projects</b> <i>Stephen Taliaferro, P.E., Ohio DOT; Chris Merklin, P.E., Ohio DOT</i>	
10:00 – 10:20	<b>Break</b>	
10:20 – 11:10	<b>Risk Management and Rehabilitation of Existing Structural Foundations for New Infrastructure Facilities</b> <i>Jerry DiMaggio, P.E., D.GE., M.ASCE, Applied Research Associates</i>	
11:10 – 12:00	<b>Large Diameter Pipe Piles, Driven Open-Ended: MLK Connector Project</b> <i>Joel Cumby, P.E., Illinois DOT</i>	
12:00 – 1:00	<b>Lunch</b>	<b>Riverside Room</b>

### Session #2 Moderator – Ryan Snook

1:00 – 1:50	<b>Federal Highway Administration LRFD Pile Manual</b> <i>Pat Hannigan, P.E., GRL Engineers</i>	<b>Room 103 A/B</b>
1:50 – 2:40	<b>Geotechnical Design and Construction of the Fort Street Bascule Bridge</b> <i>Richard O. Anderson, P.E., Dist M ASCE, Somat Engineering Tony Pietrangelo, P.E., Michigan DOT</i>	
2:40 – 3:00	<b>Break</b>	
3:00 – 3:50	<b>Bio-Stabilization of Slopes and Stream Banks</b> <i>Donald H. Gray, Ph.D., Professor (Emeritus) of Civil and Environmental Engineering, University of Michigan</i>	
3:50 – 4:40	<b>Drilled Shaft Base Grouting on the Zoo Interchange</b> <i>Robert Arndorfer, P.E., Wisconsin DOT</i>	
4:40	<b>Adjourn for the Day</b>	

## Wednesday, October 19

### Session #3 Moderator – Dave Gauthier

7:00 – 4:20	<b>Registration Desk</b>	<b>Outside Room 103 A/B</b>
7:00 – 8:00	<b>Breakfast</b>	<b>Riverside Room</b>
8:00 – 8:20	<b>Mcity-The Future of Automotive Transportation</b> <i>Matt Smith, P.E., Michigan DOT</i>	<b>Room 103 A/B</b>
8:20 – 9:10	<b>Rational Guidance to Determine the Maximum Factored Axial Compression Load a Driven Pile Can Support</b> <i>Naser Abu-Hejleh, Ph.D., P.E., Federal Highway Administration</i>	
9:10 – 10:00	<b>QA/QC Tests on Drilled Shafts and CFA Piles</b> <i>Pat Hannigan, P.E., GRL Engineers</i>	
10:00 – 10:20	<b>Break</b>	
10:20 – 11:10	<b>QC/QA Specification for Embankments</b> <i>Athar Khan, P.E., Indiana DOT</i>	
11:10 – 12:00	<b>What You Need to Know to Design or Review a Vendor-Designed Column-Supported Embankment</b> <i>Jim Collin, Ph.D., P.E., D.GE., The Collin Group</i>	

12:00 – 1:00	<b>Lunch</b>	<b>Riverside Room</b>
--------------	--------------	-----------------------

### Session #4 Moderator – Chris Johnecheck

1:00 – 1:50	<b>Design and Construction of Rigid Inclusion Ground Improvement Projects</b> <i>Tanner Blackburn, P.E., Ph.D., Hayward Baker;</i> <i>Ray Franz, P.E., D.GE., Hayward Baker</i>	<b>Room 103 A/B</b>
1:50 – 2:40	<b>Interstate 35E Column Support Embankments</b> <i>Rich Lamb, P.E., Minnesota DOT</i>	
2:40 – 3:00	<b>Break</b>	
3:00 – 3:50	<b>MoDOT's Experience With Electronic Acquisition and Management of Geotechnical Field Data</b> <i>Ricardo Todd, P.E., Missouri DOT</i>	
3:50 – 4:20	<b>Gordie Howe International Bridge</b> <i>Matt Chynoweth, P.E., Michigan DOT</i>	
4:20	<b>Adjourn Until Dinner</b>	
6:00	<b>Dinner</b> <b>Wheels for the World: Michigan's Automotive History</b> <i>Matt Anderson, Curator of Transportation, The Henry Ford</i>	<b>Riverside Room</b>

# Thursday, October 20

## Session #5 Moderator – Tony Pietrangelo

- 7:00 – 12:00     **Registration Desk** **Outside Room 103 A/B**
- 7:00 – 8:00     **Continental Breakfast** **Room 103 A/B**
- 8:00 – 9:00     **Predictive Modeling of Freezing and Thawing of Frost-Susceptible Soils**  
*Gilbert Baladi, P.E., Ph.D., Professor, Michigan State University;*  
*Pegah Rajaei, Ph.D., Intertek-PSI*
- 9:00 – 9:40     **Michigan Implementation of Mechanistic-Empirical Pavement Design**  
*Mike Eacker, P.E., Michigan DOT*
- 9:40 – 10:00    **Break**
- 10:00 – 11:30   **Panel Discussion – Open Topics**  
*Midwest Region State’s Representative*
- 11:30 – 11:45   **Summary and Conference Wrap-Up**  
*Dick Endres, P.E., Michigan DOT*
- 11:45            **Adjourn until the 46<sup>th</sup> Annual Midwest Geotechnical Conference**

