

**AGENDA**  
 For  
**2015 Geotechnical Research in Progress**  
 [DOT Course #BT-05-0135]  
 FDOT / State Materials Office  
 5007 N.E. 39th Avenue  
 Gainesville, FL 32609

Thursday (August 20, 2015)

#	Time	Topic	Presenter
-	8:45 – 9:00	Welcome	Rodrigo Herrera & Dave Horhota
1	9:00 – 10:00	<b>Field Testing and Calibration of the Vertical Insitu Permeameter (VIP)</b>	Dr. Ana Mohseni
2	10:00 – 11:00	<b>LRFD Resistance Factors for Auger Cast In Place Piles (ACIP)</b>	Drs. Michael McVay & Scott Wasman
3	11:00 – 12:00	<b>Distribution of Chloride, pH, Resistivity, and Sulfate Levels in Backfill for MSE Walls and Implications for Corrosion Testing</b>	Drs. Manjriker Gunaratne & Noreen Poor
-	12:00 – 1:00	<b>Lunch Break</b>	
4	1:00 – 1:45	<b>Soil Mixing Design Methods and Construction Techniques for Use in High Organic Soils</b>	Dr. Gray Mullins
5	1:45 – 2:00	<b>Investigation and Development of a Post Tensioned Pile Splice for Prestressed Piles</b>	Dr. Gray Mullins
6	2:00 – 2:30	<i>Improving Design Phase Evaluations for High Pile Rebound Sites</i>	<a href="#">Dr. Paul Cosentino</a>
7	2:30 – 3:00	<i>Optimizing the Use of the Thermal Integrity Testing System for Evaluating Auger-Cast Piles</i>	Dr. Gray Mullins
-	3:00 – 3:15	<b>Break</b>	
8	3:15 – 3:45	<i>Field Device to Measure Viscosity, Density, and Other Properties in Drilled Shafts</i>	Dr. Gray Mullins
9	3:45 – 4:00	<i>Development and Testing of the Miniaturized Pavement Pressuremeter*</i>	<a href="#">Dr. Paul Cosentino</a>
10	4:00 – 4:15	<i>Effect of Polymer Slurry Stabilization on Drilled Shaft Side Shear over Time*</i>	Dr. Gray Mullins
11	4:15 – 4:30	<i>Evaluating Effect of Temporary Casing on Drilled Shaft Rock Socket Friction*</i>	Dr. Gray Mullins
12	4:30 – 5:00	<b>Embedded Data Collector – Phase II Load and Resistance Factor Design</b>	Drs. Michael McVay & Scott Wasman

Note: The topics in bold lettering are final report presentations and the topics with ‘\*’ are the newly approved projects.

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Friday (August 21, 2015)

#	Time	Topic	Presenter
13	8:30 – 9:00	<i>Drilled Shaft Resistance Based on Diameter, Torque and Crowd (Drilling Resistance versus Rock Strength)</i>	Dr. Michael McVay
14	9:00 – 9:30	<i>Effect of Proximity of Sheet Pile Walls on the Apparent Capacity of Driven Displacement Piles</i>	Drs. Jae Chung & Michael McVay
15	9:30 – 10:00	<i>Evaluation of Static Resistance Estimates through FB-DEEP</i>	Dr. Michael McVay
-	10:00 – 10:15	<b>Break</b>	
16	10:15 – 10:45	<i>Detection of Sinkholes or Anomalies Using Full Seismic Wave Fields</i>	Drs. Khiem Tran & Michael McVay
17	10:45 – 11:15	<i>Implementation of Down-Hole Geophysical Testing for Rock Sockets</i>	Dr. Dennis Hiltunen
18	11:15 – 11:30	<i>Strength Envelopes for Florida Rock and Intermediate Geomaterials*</i>	Dr. Michael McVay
19	11:30 – 11:45	<i>Immediate Settlement Analysis Using Nonlinear Finite Element Analysis Models of FB-MultiPier*</i>	Dr. Jae Chung
20	11:45 – 12:00	<i>Development of a Sinkhole Risk Evaluation Program*</i>	Dr. Boo Nam
21	12:00 – 12:15	<i>Microbial Induced Calcite Precipitation to Stabilize Florida High-Organic Soils*</i>	<a href="#">Dr. Raphael Crowley</a>

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PDH credits will be awarded by segments:

Thursday (August 20, 2015)

9:00 AM – 12:00 PM      3.0 PDH

1:00 PM – 5:00 PM      4.0 PDH

Friday (August 21, 2015)

8:30 AM – 12:00 PM      3.5 PDH