

AGENDA
For
2014 Geotechnical Research in Progress

[DOT Course #BT-05-0135]

FDOT / State Materials Office

5007 N.E. 39th Avenue

Gainesville, FL 32609

Thursday (July 31, 2014)

Time	Topic	Presenter
8:45 – 9:00	Welcome	Rodrigo Herrera & Dave Horhota
9:00 – 10:00	Development of LRFD Resistance Factors for Retaining Walls	Drs. Michael McVay & Scott Wasman
10:00 – 11:00	Field Testing of a Jet-Grouted Pile and Mast Arm Drilled Shaft Foundation	Drs. Michael McVay & S. Thiyyakkandi
11:00 – 12:00	Bottom Side Grouting of Drilled Shafts Prior to Tip Grouting	Dr. Michael McVay
12:00 – 1:00	Lunch Break	
1:00 – 2:00	Effect of High Viscosity Slurry on Drilled Shaft Performance	Dr. Gray Mullins
2:00 – 3:00	Ground Tire Rubber (GTR) as a Stabilizer for Subgrade Soils	Dr. Paul Cosentino
3:00 – 3:15	Break	
3:15 – 3:45	<i>Soil Mixing Design Methods and Construction Techniques for Use in High Organic Soils</i>	Dr. Gray Mullins
3:45 – 4:15	<i>Improving Design Phase Evaluations for High Pile Rebound Sites</i>	Dr. Paul Cosentino
4:15 – 4:30	<i>Field Device to Measure Viscosity, Density, and Other Properties in Drilled Shafts*</i>	Dr. Gray Mullins
4:30 – 4:45	<i>Optimizing the Use of the Thermal Integrity Testing System for Evaluating Auger-Cast Piles*</i>	Dr. Gray Mullins
4:45 – 5:00	<i>Embedded Data Collector – Phase II Load and Resistance Factor Design*</i>	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 1, 2014)

Time	<i>Topic</i>	Presenter
8:30 – 9:00	<i>Drilled Shaft Resistance Based on Diameter, Torque and Crowd (Drilling Resistance versus Rock Strength)</i>	Dr. Michael McVay
9:00 – 10:00	<i>Pile/Shaft Designs Using Artificial Neural Networks with Spatial Variability Considerations</i>	Drs. Michael McVay & Mike Faraone
10:00 – 10:30	<i>Evaluation of Static Resistance Estimates through FB-DEEP</i>	Dr. Michael McVay
10:30 – 10:45	<i>Break</i>	
10:45 – 11:15	<i>Distribution of Chloride, pH, Resistivity, and Sulfate Levels in Backfill for MSE Walls and Implications for Corrosion Testing</i>	Drs. Manjriker Gunaratne & Noreen Poor
11:15 – 11:30	<i>LRFD Resistance Factors for Auger Cast In Place Piles (ACIP)*</i>	Drs. Michael McVay & Scott Wasman
11:30 – 11:45	<i>Effect of Proximity of Sheet Pile Walls on the Apparent Capacity of Driven Displacement Piles*</i>	Drs. Jae Chung & Michael McVay
11:45 – 12:00	<i>Field Testing and Calibration of the Vertical Insitu Permeameter (VIP)*</i>	Dr. Ana Mohseni

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PDH credits will be awarded by segments:

Thursday (July 31, 2014)

9:00 AM – 12:00 PM 3.0 PDH

1:00 PM – 5:00 PM 4.0 PDH

Friday (August 1, 2014)

8:30 AM – 12:00 PM 3.5 PDH