AGENDA

For

2013 Geotechnical Research in Progress

[DOT Course #BT-05-0135]

FDOT / State Materials Office
5007 N.E. 39th Avenue
Gainesville, FL 32609

Thursday (August 8, 2013)

Time	***Topic***	Presenter
9:00 – 9:15	Welcome	Rodrigo Herrera & Dave Horhota
9:15 – 9:45	*Development of LRFD Resistance Factors for Retaining Walls*	Dr. Michael McVay
9:45 – 10:30	***Development of a Smear Proof Horizontal and Vertical Permeability Probe***	Dr. Raphael Crowley
10:30 – 11:30	*Field Testing of a Jet-Grouted Pile and Mast Arm Drilled Shaft Foundation*	Dr. Michael McVay
11:30 – 12:00	*Bottom Side Grouting of Drilled Shafts Prior to Tip Grouting*	Dr. Michael McVay
12:00 – 1:00	***Lunch Break***	
1:00 – 1:30	*Effect of High Viscosity Slurry on Drilled Shaft Performance*	Dr. Gray Mullins
1:30 – 2:00	*Investigation of Erosion Rates of Field Samples Using FDOT's Enhanced Sediment Erosion Rate Flume (SERF)*	Dr. Raphael Crowley
2:00 – 2:30	*Soil Mixing Design Methods and Construction Techniques for Use in High Organic Soils*	Dr. Gray Mullins
2:30 – 2:45	***Break***	
2:45 – 3:15	*Ground Tire Rubber (GTR) as a Stabilizer for Subgrade Soils*	Dr. Paul Cosentino
3:15 – 3:45	*Drilled Shaft Resistance Based on Diameter, Torque and Crowd (Drilling Resistance versus Rock Strength)*	Dr. Michael McVay
3:45 – 4:00	*Improving Design Phase Evaluations for High Pile Rebound Sites**	Dr. Paul Cosentino

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 9, 2013)

Time	***Topic***	Presenter
8:30 – 9:30	***Detection of Sinkholes or Anomalies Using Full Seismic Wave Fields***	Drs. Khiem Tran & Michael McVay
9:30 – 10:30	***Evaluation of Vibration Limits and Mitigation Techniques for Urban Construction***	Drs. Emre Bayraktar & Mark Svinkin
10:30 – 10:45	***Break***	
10:45 – 11:15	***Continuation of Down-Hole Geophysical Testing for Rock Sockets***	Dr. Dennis Hiltunen
11:15 – 11:45	*Pile/Shaft Designs Using Artificial Neural Networks with Spatial Variability Considerations*	Drs. Khiem Tran & Michael McVay
11:45 – 12:00	*Evaluation of Static resistance Estimates Through FB-DEEP**	Dr. Michael McVay

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PDH credits will be awarded by segments:

Thursday (August 8, 2013)
9:00 AM – 12:00 PM 3.0 PDH
1:00 PM – 4:00 PM 3.0 PDH

Friday (August 9, 2013)
8:30 AM – 12:00 PM 3.5 PDH