

41st Southeastern Transportation Geotechnical Engineering Conference

Conference Meeting Room: Azalea - 1st Floor, Lower Lobby Level Lunch/Dinner Room: Cape Fear Ballroom Exhibitor Room: Magnolia / Dogwood / Camellia

Professional Development Hour:

Attendees may claim up to **17.0 PDHs.** Attendees are responsible for keeping record of how many presentations attended.

MONDAY, NOVEMBER 2, 2009

2:00 pm	-	5:30 pm	REGISTRATION
2:00 pm	-	8:00 pm	Exhibitor Setup
6:00 pm	-	8:00 pm	Ice Breaker Reception (Azalea)

TUESDAY, NOVEMBER 3, 2009

7:00 am	-	4:00 pm	REGISTRATION
7:00 am	-	8:00 am	Breakfast in Exhibitor Area
8:00 am	-	8:30 am	Opening Ceremonies and Welcome
			Guest Speaker: Mr. Terry R. Gibson, State Highway Administrator, NCDOT
8:30 am	-	10:00 am	Session 1: Deep Foundations, DIGGS
1.50 PDHs		Paper No.	Moderator: Thomas Scruggs, Georgia DOT
		1012	Soil-Pile Group Interaction without P-Multipliers
			Mohamed Ashour, University of Alabama in Huntsville
		1028	FB-MultiPier: Nonlinear Dynamic Analysis and Design of Deep Foundations Marc Hoit, N.C. State University; Jae Chung, University of Florida
		1027	DIGGS: Digital Interchange for Geotechnical and GeoEnvironmental Specialists Marc Hoit, N.C. State University
		1052	Case Studies of Pile Driving Issues in Louisiana
			Jeff Brown, Louisiana DOT
10:00 am	_	10:30 am	Refreshment Break in Exhibitor Area

STGEC-

10:30 am	-	12:00 pm	Session 2: Unknown Foundations, Non-Destructive Evaluation
1.50 PDHs			Moderator: Jerry A. DiMaggio, The National Academies, TRB-SHRP2
		1058	Risk Based Management Approach for Unknown Foundation in North Carolina
			Mohammed A. Mulla, Nadia A. Al-Dhalimy, NCDOT
		1019	Re-Classifying Bridges with Unknown Foundations
			Sayed M. Sayed, GCI Inc.; Hisham N. Sunna, Ayres Associates, Inc.; Pamela R. Moore, GCI Inc.
		1015	Cross-hole Sonic Logging (CSL) of Drilled Shafts for the Chickamauga Lock Replacement: A Summary of Findings for Future Planning Scott Barrentine, Aquaterra Engineering, LLC
		1034	Evaluating the Integrity of the Existing Ohio River Bridge Piers for the Proposed US 421 Milton-Madison Superstructure Replacement Project
			Bart Asher, Kentucky Transportation Cabinet
12:00 pm	-	1:25 pm	Lunch – Provided (Cape Fear Ballroom)
12:30 pm	-	1:15 pm	Lunch Presentation
		1009	Deep Foundations and Accelerated Construction with Design-Build
			Dan Brown, Dan Brown and Associates
			Design-Build Panel Discussion
			Dan Brown, Dan Brown and Associates; Victor Barbour, NCDOT
1:25 pm	-	3:10 pm	Session 3: Subsurface Investigation, Geophysical Survey, Environmental
1.75 PDHs			Moderator: Joseph Carte, West Virginia DOT
		1038	Environmentally Sensitive Subsurface Exploration Experiences from the InterCounty Connector, Contract A
			Chad C. Mayers, Ken Derrenbacher, Schnabel Engineering; Jeff Walton, Corman Construction Company
		1032	New Geophysical Surveying Technology and Methods
			Craig M. Silvanic, Dan Adkins, GEL Geophysics LLC.
		1054	Geophysical Surveys Address Concerns Raised by Sinkholes
			Next to A Busy Two-Lane Highway Edward Billington, Jeremy Strohmeyer, James Whitt, Schnabel Engineering; Cyrus Parker, NCDOT
		1023	DOT Versus Toxaphene: Beneficial Reuse of Contaminated Soil
			Matt Bramblett, Hart & Hickman, PC
		1026	Electron Acceptor Solution (EAS TM) – Sulfate Enhanced Anaerobic Bioremediation Sheri L. Knox, Jessica Keener, Solutions-IES

3:10 pm	-	3:30 pm	Refreshment Break in Exhibitor Area
3:30 pm	-	5:15 pm	Session 4:, Geotechnical Engineering Discipline, Drilled Shaft Construction, Geophysical Survey, Geotechnical Database Moderator: Sam Williams, Tennessee DOT
1.751 DHS		1047	A Primer on the Implications of Regional Climate Change Science for the Geotechnical Engineering Discipline Kevin Moody, Benjamin S. Rivers, Federal Highway Administration
		1030	Identification of Drilled Shaft Construction Problems
			Ching-Nien Tsai, Louisiana DOT
		1016	Automated Laboratory Data Collection and Database Management
		1056	John D. Godfrey, Jr., Gregory W. Brubaker, K.S. Ware & Associates, LLC Mapping Surface and Subsurface Karst : SR 71 South Knoxville Blad Extension Know County Termogram
		1045	 Blvd. Extension, Knox County, Tennessee Harry L. Moore, Golder Associates/Tennessee DOT – Retired; Lori McDowell, Tennessee DOT Geotechnical Data Management – Lessons Learned Scott L. Deaton, Dataforensics, LLC
6:00 pm	-	6:30 pm	Boarding
6:30 pm			No Boarding after 6:30 pm
6:30 pm	-	8:30 pm	Dinner – Provided

WEDNESDAY, NOVEMBER 4, 2009

STGEC-

7:00 am		12:00 pm	REGISTRATION
7:00 am	-	8:00 pm	Breakfast in Exhibitor Area
8:00 am	-	9:45 am	Session 5: LRFD, Load Tests
1.75 PDHs			Moderator: Sean Ferguson, Mississippi DOT
		1050	LRFD for Dummies
			Elizabeth M. Smith, Terracon Consultants, Inc.
		1049	LRFD in Practice – A Case Study of What the Future Holds for Foundation Designers
			W. Robert Thompson III, Paul J. Axtell, Dan Brown and Associates;
		1000	Elizabeth M. Smith, Terracon Consultants, Inc.
		1008	Revised 2009 FHWA Drilled Shaft Design and Construction
			Manual and Short Course
			Dan Brown, Dan Brown and Associates



		1036	High Strain Dynamic Pile Testing – The Subtle Benefits
			Gregory J. Canivan, S&ME, Inc
		1035	A Case for Design-Phase Foundation Testing Programs
			William M. Camp III, S&ME, Inc
9:45 am	-	10:15 am	Refreshment Break in Exhibitor Area
10:15 am	-	12:00 pm	Session 6: SPT Hammer Energy, Compaction, Liquefaction Potential
1.75 PDHs			Moderator: Milledge (Mickey) Wilson, South Carolina DOT
		1018	Energy Efficiency and Rod Length Effect in SPT Hammers
			Michael Valiquette, NCDOT; Roy Borden, Brent Robinson,
			N.C. State University
		1041	The Benefits and Pitfalls of Automatic Hammer Operation
			Stephen Criscenzo, P.E., MACTEC Engineering and Consulting, Inc.
		1042	Energy Efficiency for Standard Penetration Tests with Automatic Hammers
			Steve Kiser, P.E., MACTEC Engineering and Consulting, Inc.
		1051	Roller-Compacted Concrete Pavements in the U.S.
			Fares Y. Abdo, Tim McConnell, Portland Cement Association
		1046	Comparing SPT and Shear Wave Velocity Approaches for Evaluation of Liquefaction Potential in Northeast Arkansas Ashraf Elsayed, Arkansas State University; Shahram Pezeshk, The University of Memphis
12:00 pm	-	1:30 pm	Lunch – Provided (Cape Fear Ballroom)
12:15 pm	-	1:15 pm	Lunch Presentations
		1024	The Second Strategic Highway Research Program: SHRP 2
			Jerry A. DiMaggio, TRB
		1022	FHWA Geotechnical Program – Activities and Updates
			Benjamin S. Rivers, FHWA
1:30 pm	-	3:15 pm	Session 7: NCHRP Researches, Retaining Walls
1.75 PDHs			Moderator: Bart Asher, Kentucky Transportation Cabinet
		1007	Scour at Bridge Foundations on Rock: Status of NCHRP Project 24-29
		1010	Jeffrey R. Keaton, MACTEC Engineering and Consulting, Inc.; Su K. Mishra, Paul E. Clopper, Ayres Associates, Inc.
		1013	NCHRP 4-34 - Aggregate Characterization by LADAR
			Linbing Wang, Virginia Polytechnic Institute and State University



	1031	LRFD Metal Loss and Service-Life Strength Reductions Factors for Metal Reinforced Systems in Geotechnical Applications - NCHRP 24-28 – Project Update Kenneth L. Fishman, McMahon & Mann Consulting Engineers
	1003	NCDOT's Experience with Precast Gravity Retaining Walls Scott A. Hidden, NCDOT
	1055	Design and Construction Challenges for the I-40 Mile Marker 1 Retaining Wall
		Craig Smith, Hayward Baker Inc.; Eddy Chu, EKC Engineering; Gary Brill, Geo Environmental Associates
3:15 pm -	3:45 pm	Refreshment Break in Exhibitor Area
3:45 pm -	5:30 pm	Session 8: Soil Properties, Deep Foundations, Embankment
1.75 PDHs		Moderator: Christopher Wald, Arkansas Highway and Transportation Department
	1005	Validity of CPT Models in Predicting Soil Properties of North Carolina Soils Njoroge W. Wainaina, NCDOT
	1044	Micropile Solutions to Challenging Subsurface Conditions in Transportation Projects Michael J. Marasa, Hayward Baker Inc.
	1029	Geo-Design Applications in Karst Environments William D. Spencer, Jaye Richardson, AMEC Earth & Environmental, Inc.
	1053	Use of Controlled Modulus Columns for the Support of MSE Walls Frederic Masse, DGI-Menard, Inc.
	1057	Taxiway Embankment over Soft Ground Using Staged Construction Richard C. Wells, Xavier C. Barrett, Thomas Wells, Kleinfelder
5:30 pm		Steering Committee Meeting
		Meeting Room: TBA
6:00 pm	7:00 pm	Social Hour
7:00 pm	9:00 pm	Banquet – Provided (Cape Fear Ballroom)
		Banquet Presentation
		Driving Down the Highway of the Road Ahead Jim Kellenburger, P.E., Kellenberger Engineering, Inc.



THURSDAY, NOVEMBER 5, 2009

7:00 am	-	8:00 am	Breakfast in Exhibitor Area
8:00 am 1.75 PDHs	-	9:45 am	Session 9: MSE Wall, Landslide, Rock Slope Stabilization Moderator: Raja El-Awar, FES, Inc.
		1043	Method of Analysis to Determine the Point of Fixity for Piles in MSEW Abutments Muhammad Shafiqur Rahman, MACTEC Engineering and Consulting
		1014	Remediation of Cat Gap Road Landslide
		1014	Pieter J. DePree, Gary W. Rhodes, MACTEC Engineering and Consulting; Jeff Holloway, Will Brown, Natural Resources Conservation Service
		1048	Stress and Time Dependent Bond Strength Behavior in Ballistic Soil Nails from Various Landslide Regimes Colby E. Barrett, Timothy Ruckman, Soil Nail Launcher, Inc.; John Steward, U.S. Forest Service (Retired)
		1006	Rock Slope Stabilization with Polyurethane Resin "Rock Glue" Helps Preserve Aesthetics along Scenic Federal Roadways Brian K. Banks, George Aristorenas, Schnabel Engineering; Khalid Mohamed, Mounir Abouzakhm, FHWA Eastern Federal Lands Highway Division
		1040	Rock Slope Stabilization Projects in Letchworth State Park, Portageville, New York Michael J. Mann, McMahon & Mann Consulting Engineers; Ken Wojtkowski, TVGA Consultants; Donald Owens, Earth Dimensions, Inc.
9:45 am	-	10:15 am	Refreshment Break in Exhibitor Area
10:15 am 1.75 PDHs	-	12:00 pm	Session 10: Light Weight Fills, Soil Improvement and Stabilization Moderator: Njoroge Wainaina, North Carolina DOT
		1021	Unconventional Fills, or You Put What In My Roadway?! Thomas Scruggs, Georgia Department of Transportation
		1039	Remediation of Soft Sensitive Clay Using the Dry Mix Method Michael J. Mann, Shawn W. Logan, McMahon & Mann Consulting Engineers; Michael L. Grant, Hayward Baker Inc.; Jonathan Kolber,
		1010	Army Corps of Engineers Geofoam
			Nico Sutmoller, Insulfoam, LLC.
		1037	Embankment Construction on Soft Ground Aaron D. Goldberg, S&ME, Inc.
		1033	Use of Lightweight Aggregate Fill at Tranters Creek Bridge Approach Thein T. Zan, NCDOT



 12:00 pm
 Closing Remarks

 Njoroge W. Wainaina, State Geotechnical Engineer, NCDOT

12:10 pm

Conference Adjourns