lax. 11.00 PDHs	Gen <sup>3</sup>	The 8 <sup>th</sup> Geo <sup>3</sup> T <sup>2</sup> Cor	nferen	ce Program Update: 3/30/	2015	
ay 1 - up to 7.50 PDI	Hs	Program A - Geotechnical		Program B - GeoEnvironmental/GeoPhysical		
ay 2 - up to 3.50 PDI	Hs	Thursday – April 9, 2015		Thursday – April 9, 2015		
7:00 am - 3:00 pm	Registration Desk Ope	n (Early Check-in: 5:00 pm - 7:00 pm, Wednesday, April 8)	Registra	ation Desk Open (Early Check-in: 5:00 pm - 7:00 pm, Wednesday, Apr	il 8)	
8:00 am - 8:10 am	Welcome - John Pilipcl	nuk / Mohammed Mulla (Chimney Rock/Mendenhall/Exhibit Area)	Welcom	ne - John Pilipchuk / Mohammed Mulla (Chimney Rock/Mendenhall/Ex	hibit Area)	
8:10 am - 8:15 am Transition Break			Transiti	on Break		
3:15 am - 10:00 am	Session 1A - Geotech	nical I (Reynolds/Cameron/Smith) - Moderator: John Ledbetter	Sessio	n 1B - GeoEnvironmental I (Pinehurst) - Moderator: Kathy Roush		
1.75 PDHs	1A-1 G15-24_What NCDOT	s New with the NCDOT Geotechnical Engineering Unit? Scott A. Hidden,	1B-1	G15-09_Gasoline Diesel What's Going on Down There? Current A Need to Further Evaluate LNAPL Recoverability. Alex Culpepper, S&I		
	Downtown Cro	History: Ground Improvement Test Section and Ground Improvements for ssing Section 1, Louisville – Southern Indiana River Bridges Project. John E. s Engineering Group; Mike Minton, Hayward Baker Inc.	1B-2	G15-11_Environmentally Sustainable Approach to Groundwater Rem Niver, NCDOT	ediation. Thomas C.	
		d Rainfall, the Effects of Long Term Annual Average on Slope Stability in WNC C. Kuhne, NCDOT	1B-3	G15-14_Land Application of Concrete Byproducts Promotes Environm Willcox, S&ME, Inc.; Robin Maycock, NCDOT	nental Sustainability. Ro	
	1A-4 G15-51_Desig Keaney, HDR	n of Large Diameter Open-End Steel Pipe Piles for the New NY Bridge. Brian D.	1B-4	G15-16_Due Diligence and Contamination Management on Design Be Parker, NCDOT	uild Projects. Cyrus	
0:00 am - 10:25 am	Refreshment Break - E	xhibit Area (Blowing Rock)	Refresh	nment Break - Exhibit Area (Blowing Rock)		
):25 am - 12:10 am	Session 2A - Geotech	nical II (Reynolds/Cameron/Smith) - Moderator: Scott Hidden	Sessio	n 2B - GeoPhysical I (Pinehurst) - Moderator: John Stewart		
1.75 PDHs	Guddati and V	estructive Testing to Predict the Embedded Depth of Pile Foundations. Murthy ivek Samu, NCSU Testing for Foundation Reuse at the Lake Mary Road Bridge, Arizona. Frank A		G15-37_A Simple Solution: 'Going under cover' at the US 17 Westerr Jacksonville, North Carolina. Ken Daly and Shirshant Sharma, AMEC G15-43_Keys to Successfully Using Geophysics to Detect Mine Voids or Subsurface Imaging of Mine and Karst Voids using Geophysics. Ro B. Waters, Golder Associates	and Covered Sinkhole	
	Geotechnical [	S: A Dream Becomes Reality: Implementation Status of a Standardized Data Management Concept. Robert C. Bachus, Geosyntec Consultants; Robert Geo-Institute of ASCE	2B-3	G15-03_Electrical Resistivity – Applications for Geologic Site Charact Detection. Eric Cross and Doug Canavello, Pyramid Environmental &		
	2A-4 G15-25_Mana	ging North Carolina's MSE Wall Assets through Design, Construction and Robert A. Gladstone, Association for Metallically Stabilized Earth	2B-4	G15-04_3D GPR Studies to Map Subsurface Voids. Ned Billington, E NCDOT	SP and Kevin Miller,	
2:20 pm - 1:30 pm	Lunch - Provided (Chin	nney Rock/Mendenhall/Exhibit Area)	Lunch -	Provided (Chimney Rock/Mendenhall/Exhibit Area)		
2:40 pm - 1:10 pm	Luncheon Presentation	on	Lunche	eon Presentation		
0.50 PDHs	L-1 Engineering fo	r Performance – a Look to the Future. Scott Anderson, FHWA	L-1	Engineering for Performance – a Look to the Future. Scott Anderson,	FHWA	
l:35 pm - 3:20 pm	Session 3A - Geotech	nical III (Reynolds/Cameron/Smith) - Moderator: Khamis Haramy	Sessio	n 3B - GeoPhysical II (Pinehurst) - Moderator: Doug Canavello		
1.75 PDHs		ct Free Elasto-Magnetic Sensors for Monitoring of Tension Forces in Pre- ors and Compression Loads in Piles. Shahid Islam and Stephen Callies,	3B-1	G15-10_Subsurface Characterization for Directional-Drilling Projects and James Whitt, Schnabel Engineering South, P.C.	Jsing MASW. Joel Dar	
	3A-2 G15-20_Thern	nal Integrity Profiling. Jim Zammataro, PDI	3B-2	G15-22_Using Three-Dimensional GPR Data to Map Remnant Infrast Past. Keith C. Seramur, Seramur & Associate	ructure and Interpret th	
	3A-3 G15-33_Thern Gregory Caniv	nal Integrity Profiling (TIP) of Drilled Shafts in South Carolina. David Schoen and an, S&ME	3B-3	G15-39_The Use and Limitations of Common Geophysical Methods in Depth. Kelly Plummer, GEL	n Determining Bedrock	
	• •	ncing Reliability and Quality of Drilled Shafts through Thermal Integrity Testing.	3B-4	G15-05_Remote Scour Monitoring Demonstration Project for Bonner ESP	Bridge. Ned Billington,	

1.75 PDHs				
1.751 0113	4A-1 G15-54_bioMASON employs natural microorganisms and chemical processes to manufacture biological cement-based masonry building materials (Growing Bricks). Ginger Krieg Dosier, bioMason	e 4B-1 G15-18_Vapor Intrusion in North Carolina. Genna K. Olson, Cardno ATC		
	4A-2 G15-53_Increasing the Axial Load Capacity of Pervious Concrete Ground Improvement Piles Using Bio-modification. Muhannad T. Suleiman, Hai Lin, and Lusu Ni, Lehigh University	4B-2 G15-19_Accelerated Site Closure Achieved After System Optimization. Sheri Knox and Alex Mikszewski, AE&I		
	4A-3 G15-55_Stabilization of Shallow Slope Failure on Expansive Clay using Recycled Plastic Pin. Sahadat Hossain and Mohammad Sadik Khan, UTA	4B-3 G15-27_Comparison between Method 6200B and QED on Site Analysis. Colin Green, QRO		
	4A-4 G15-13_Soldier Pile Wall Rehabilitation Using Shored Geosynthetically Confined Soil Wall wit Reticulated Micropiles in the Blue Ridge Mountains. Nate Beard and Matt Birchmier, GeoStabilization International	th 4B-4 G15-28_Brownfields, Battery Caps, and a Junkyard Dog of a Site. Matt Bramblett, Hart & Hickman and Gordon Box, NCDOT		
δ:00pm – 8:30 pm	Reception / Social Hour - (Chimney Rock/Mendenhall/Exhibit Area)	Reception / Social Hour - (Chimney Rock/Mendenhall/Exhibit Area)		
:30 pm - 7:15 pm	Social Hour Presentation	Social Hour Presentation		
0.00 PDHs	G15-30_"Investigation and Treatment of a Swallvette" aka: Sinkhole Remediation at the SH-1 National Corvette Museum. Michael J. Marasa, Hayward Baker Inc.	G15-30_"Investigation and Treatment of a Swallvette" aka: Sinkhole Remediation at the SH-1 National Corvette Museum. Michael J. Marasa, Hayward Baker Inc.		
	$\frac{1}{1000}$ The 8 <sup>th</sup> Geo <sup>3</sup> T <sup>2</sup> Co	ference Program Update: 3/30/2015		
	Program A - Geotechnical	Program B - GeoEnvironmental/GeoPhysical		
	Friday – April 10, 2015	Friday – April 10, 2015		
:00 am - 10:00 am	Registration Desk Open	Registration Desk Open		
':30 am – 9:00 am	Continental Breakfast - Exhibit Areas (Room: Chimney Rock/Mendenhall)	Continental Breakfast - Exhibit Areas (Room: Chimney Rock/Mendenhall)		
:00 am - 9:30 am	Session 5A - Geo <sup>3</sup> T <sup>2</sup> Poster Session A/B (Mendenhall/Bellamy) Moderator: Eric Williams	Session 5B - Geo <sup>3</sup> T <sup>2</sup> Poster Session A/B (Mendenhall/Bellamy) Moderator: Saieb Haddad		
0.00 PDHs	5A-1 G15-56_Influence of Physicochemical Properties in Ohmic Resistivity of Clay Minerals. Golam Kibria, Drash; Sahadat Hossain, UTA	5B-1 G15-40_Required Suction Measurement Duration Using Tensiometers in the Field. Cheng Wang, Roy Borden, and Mohammed Gabr, NCSU		
Poster Size: 3'x4' or 4'x3'	5A-2 G15-57_Behavior of Expansive Subgrade on a State Highway in North Texas. Sahadat Hossain, Asif Ahmed and Mohammad Sadik Khan, UTA	5B-2 G15-08_Dynamic Pile Driving Monitoring with Embedded Data Collectors (EDC). Shunyi C. Chen and Mohammed A. Mulla, NCDOT		
	5A-3 G15-58_Site Investigation of Highway Slopes Using Resistivity Imaging Technique. Sahadat Hossain and Mohammad Sadik Khan, UTA	5B-3 G15-21_NCDOT's Experience with Hydraulic Settlement Gauges. Richard S. Webb, NCDO		
	5A-4 G15-41_Analysis and Performance of Temporary Slopes in Unsaturated Residual Soils. Jungmok Lee, Roy Borden, and Mohammed Gabr, NCSU	5B-4 G15-45_Numerical Assessment of Plate Anchors Capacity in Saturated Soils. Zahra Aghazadeh Ardebili, M.A.Gabr, and M.S. Rahman, NCSU		
	5A-5 G15-48_Shear Wave Velocity Measurements in Triaxial Tests (Mechanical properties of microbial induced calcite precipitated cemented soil). Kai Feng and Brina Montoya, NCSU	5B-5 G15-60_NCDOT's "new" Project Special Provision for Prevention of Longitudinal Pavement Cracking in Roadway Embankments of high plasticity Soils. Dan Popek, NCDOT		
	5A-6 G15-42_Unsaturated Soil Strength of Residual Soils from Greensboro, NC (Unsaturated Strength property in residual soil). Chien-Ting Tang, Roy Borden, and Mohammed Gabr, NCSU	5B-6 G15-47_Failure Modes of Suction Caisson in Sand under Axially Pullout Loading (A Novel Estimation of axial pullout capacity of suction caisson in sand). Jinfu Xiao, M.A.Gabr, and M. Rahman, NCSU		
	5A-7 G15-46_Evaluating Subgrade Resilient Modulus by In-situ and Laboratory Tests. S. Hamed Mousavi, Mohammed Gabr, and Roy H. Borden, NCSU	5B-7 P15-03_Undrained Behavior of Silty Soil Improved with Microbial Induced Cementation. Atef Zamani and Brina Montoya, NCSU		
	5A-8 P15-01_Improving the Resiliency of Coastal Sand Dunes using Microbia Induced Calcite Precipitation. Casey Shanahan and Brina Montoya, NCSU	5B-8 P15-04_Leaching Behavior of Bio-Mediated Fly-Ash. Seyed Shahin Safavizadeh and Brina Montoya, NCSU		
	5A-9 P15-02_Contaminated Waste Minimization. Cyrus Parker, NCDOT	5B-9 P15-05_REES "Risk Estimator for Embankment Structures" Software. Amr Helal and Mohammed Gabr, NCSU		
		5B-10 P15-06_Introduction to Pavement Design Investigation. Cynthea Jaskolka, NCDOT		

	ssion 6A - Geotechnical V ( <mark>Reynolds/Cameron/Smith OR Tanglewood) -</mark> Moderator: Chris Kre	ider			
9:00 am - 10:45 am		Session 6B - GeoEnvironmental III (Pinehurst) - Moderator: Cyrus Parker			
1.75 PDHs 6A	A-1 G15-29_Rehabilitation of US-158 over Soft Organic Soils through Vibration Sensitive Historic Elizabeth City, NC. Michael Valiquette, NCDOT	6B-1 G15-35_Railroad Right of Entry: A Case Study. Brian Speight, HMM Group; Michael Branson, Solutions-IES			
6A	A-2 G15-34_Design and Construction of Micropiles Supporting I-73 Taxiway Bridge. Sharat Gollamudi, AMEC; Tom Morrison, Morrison Engineers	6B-2 G15-36_Risk-based Remedial Action at Contaminated Sites in North Carolina: History, Case Study, and Legislative Update. Jim Bateson, NCDENR; Joe Starr, Solutions-IES			
6A	A-3 G15-38_Geostructural Design and Construction Interfaces of I-73 Taxiway Bridge Design- Build. Bon Lien and Shane Johnson, AMEC	6B-3 G15-23_Beneficial Use of Coal Combustion Products. Christopher A. Peoples, NCDOT; Ellen Lorscheider, NCDENR			
6A	A-4 G15-32_Field Performance Evaluation of Low Volume Gravel Road Sealed with Bituminous Surface Treatment. Mark H. Wayne and Jay Kwon, Tensar	6B-4 G15-12_Geologic Data of the North Carolina Geological Survey – From Historic Data to Modern Detailed Geologic Mapping. Phil Bradley, NCDENR			
10:30 am -11:00 am Refr	freshment Break - Exhibit Area (Blowing Rock)	Refreshment Break - Exhibit Area (Blowing Rock)			
10:30 am - 12:15 pm Ses	ssion 7A - Geotechnical VI (Reynolds/Cameron/Smith OR Tanglewood) - Moderator: Robert G	iladstone			
1.75 PDHs 7A	A-1 G15-17_Geotechnical Instrumentation and Monitoring System for I-20 Embankment in Kershaw County, South Carolina. Ming Zhu, Meena Viswanath, & Robert Bachus, Geosyntec Consultants; Ed Tavera, GeoStellar Engineering; Nathalia Chandler, SCDOT				
7A	A-2 G15-02_Anatomy of a Bridge Abutment Failure. Raymond A. DeStephen, Schnabel Engineering				
7A	A-3 G15-07_Slope Stability. Frank Milchuck, Platipus Anchors Inc.				
7A	A-4 G15-59_The Full Scale Mechanics of Slope Stabilization. Bob Lyne, Geobrugg North America				
9:30 am - 1:00 pm Ses	ssion 8A - Training - Geotechnical (Tanglewood OR Reynolds/Cameron/Smith; Break: 10:45-1	1:00) - Moderator: Sayed Sayed			
3.25 PDHs 8A	A-1 Drilled Shaft Foundations, Construction & Inspection. Khamis Haramy, FHWA				
11:00 am - 12:30 pm		Session 8B - Training - GeoEnvironmental (Pinehurst)			
1.50 PDHs		8B-1 Ultraviolet Fluorescence Petroleum Analysis for Managers. Felecia Owen, QROS			
	Training and Thursday Lunch are Included in the Registration Fee (No Extra Charge)				
	SUMMARY:				
	Day 1: 8 Sessions, 34 Presentations (include Luncheon & Social Hour Presentations)				
	Day 2: 7 Sessions, 12 Presentations, 2 Trainings, 18 Posters				
PDH Record		Max. PDHs Can Be Claimed: 11.00 PDHs (see details below)			
Session Hou	urs				
	75 Thursday	Thursday:			
	75 Thursday	7.50 PDHs			
Luncheon 0.5 Presentation	50 Thursday	(Sessions: 1A/1B, 2A/2B, 3A/3B, 4A/4B & Luncheon Presentation)			
3A or 3B 1.7	75 Thursday				
4A or 4B 1.7	75 Thursday	Friday:			
		3.50 PDHs (Sessions: 6A/6B & 7A)			
6A or 6B 1.7	75 Friday	or			
	.75 Friday	3.25 PDHs (Session: 8A only)			
	-				
8A 3.2	.25 Friday .50 Friday	or 3.25 PDHs (Sessions: 6B & 8B)			