

STGEC 2024 TECHNICAL AGENDA

10/21/2024

Tuesday, November 19, 2024

8:20 AM	10:00 AM	<i>Branford Breland</i>	<i>SCDOT</i>	<i>Moderator: Session 1</i>
8:00 AM	8:20 AM	Chris Nickel	LADOTD	Welcome
8:20 AM	8:45 AM	Silas Nichols	FHWA	FHWA Geotechnical Program Update
8:45 AM	9:10 AM	Justin McCarley	Landslide Technology	Tennessee Rockfall Hazard GAM Data Collection and Analysis, District 2
9:10 AM	9:35 AM	Nathan Thompson	BGC Engineering	Advances in Network-scale, Risk-Based Geotechnical Asset Management
9:35 AM	10:00 AM	Darren Beckstrand	Landslide Technology	Resiliency Improvements for the SR-2 (US 41) Corridor and PROTECT-Act Eligibility Review
10:00 AM	10:30 AM	Break		
10:30 AM	12:10 PM	<i>Demetrius Moton</i>	<i>GDOT</i>	<i>Moderator: Session 2</i>
10:30 AM	10:55 AM	Gavin Gautreau	LTRC	Digital Integration of AASHTO Updates for Enhanced Engineering Decisions and Project Deliveries
10:55 AM	11:20 AM	Xin Peng	Geosyntec	Practical AI Use Cases for Geotechnical Engineers
11:20 AM	11:45 AM	Louis Aaron	BoreDM	Transitioning from Boring Logs to Model-Based Deliverables AI Tools and Implications for Geotechnical Data Management
11:45 AM	12:10 PM	Simon Hardham	TabLogs	Modern Borehole Logging & Database Management - A Geodata Lifecycle
12:10 PM	1:10 PM	Lunch		
1:10 PM	2:50 PM	<i>Jonathan Reynolds</i>	<i>KYDOT</i>	<i>Moderator: Session 3</i>
1:10 PM	2:00 PM	Craig Shultz & Lincoln Delpino	American Excelsior & Gripple	Engineered Percussion Anchor and Turf Reinforcement Mat Systems for Vegetated Slope Stabilization, Erosion Control, and Revegetation Solutions
2:00 PM	2:25 PM	Ricardo Romero-Ramirez & Maria Arroyo-Caraballo	Puerto Rico Highway & Transportation Authority	Combining Terrestrial Laser Scanning and Unmanned Laser Scanning for Measuring Rock Slope Deformation and Discontinuity Orientation
2:25 PM	2:50 PM	Gary Brill	Schnabel	Railroad Embankment Slope Stabilization with Tiebacks and Micropiles
2:50 PM	3:20 PM	Break		
3:20 PM	4:35 PM	<i>Michael Batten</i>	<i>NCDOT</i>	<i>Moderator: Session 4</i>
3:20 PM	3:45 PM	Kevin Franke	HDR	CPT Assessment of Liquefaction Susceptibility
3:45 PM	4:10 PM	Vanessa Lucido	ROC Equipment	Non-Vibratory Installation Methods are Expanding the Use of Steel-Cased Shafts
4:10 PM	4:35 PM	Aneesh Goly	Smart Structures	Life Cycle Monitoring of Deep Foundations: Case Studies of Comparison of External loads with the Sensor Measured Loads-decarbonization and reuse opportunities

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8:00 AM	9:15 AM	Octavia Jennings	GDOT	Moderator: Session 5
8:00 AM	8:25 AM	Henok Tiruneh & Randy Post	WSP	Rockfall Geohazard Evaluation and Prioritization: A Case Study in Northwestern New Mexico
8:25 AM	8:50 AM	Eugene Utsalo	GDOT	US 76/SR 2 (Lookout Mountain Scenic Highway) Landslide Repair in Rabun County, GA
8:50 AM	9:15 AM	David Hannam	WSP	Assessment and Mitigation of I-40 Landslide at Rockwood, Tennessee
9:15 AM	9:45 AM	Break		
9:45 AM	11:25 AM	Renee Gardner	SCDOT	Moderator: Session 6
9:45 AM	10:10 AM	Sam Sternberg III & Jesse Rauser	DBA & LADOTD	Concrete Pile Splices and LA-1 Case Study
10:10 AM	11:00 AM	Miranda Perkins & Jesse Rauser	LADOTD	Low Mobility Grouting on the LA 1 Port Allen Canal Bridge
11:00 AM	11:25 AM	Patrick Thurmond	Eustis	Evaluating Pile Plugging in Concrete Large Diameter Open-Ended Pipe Piles
11:25 AM	12:55 PM	Lunch		
12:55 PM	2:35 PM	Richey Cline	KYDOT	Moderator: Session 7
12:55 PM	1:20 PM	Ben Rivers	FHWA	The Road to Measurement While Drilling (MWD) Standardization
1:20 PM	1:45 PM	Hannah Iezzoni & Jon Sinnreich	DFI	Advancements in Augercast Piles for use in Transportation Structures
1:45 PM	2:10 PM	Mohamad Hussein	GRL	Testing Methods for Geotechnical Load Bearing Capacity and Structural Integrity Evaluations of Drilled Shafts and Auger-Cast Piles Deep Foundations
2:10 PM	2:35 PM	David Graham	DBA	Mobilization of Side and Base Resistance in Rock-Socketed Drilled Shafts
2:35 PM	3:05 PM	Break		
3:05 PM	4:45 PM	Sara Stone	SCDOT	Moderator: Session 8
3:05 PM	3:30 PM	Nicholas Ratcliff	Terracon	Utilizing Near Surface Geophysical Testing for the purpose of Developing Site Characterization and Preliminary Parameters
3:30 PM	3:55 PM	Adam Ross	KYTC	Accelerated Geotechnical Investigations for Major Flooding
3:55 PM	4:45 PM	Nick Tuttle & Andrew Drda	NCDOT	Case Study: Alligator River Bridge Project

STGEC 2024 TECHNICAL AGENDA

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Thursday, November 21, 2024

8:00 AM	9:40 AM	Sean Ingram	GDOT	Moderator: Session 9
8:00 AM	8:25 AM	Alice Elizabeth Stark & Satish Bastola	UNO	Primary Consolidation Settlement of South Louisiana Clay Deposits in the Marsh Environment
8:25 AM	8:50 AM	Justin Cook	WSP	Evaluation of Box Culvert Differential Settlements Subject to Highway Embankment Load
8:50 AM	9:15 AM	Brian Nami	Concrete Canvas USA	"Concrete on a Roll" - Geosynthetic Cementitious Composite Mats (GCCM's) for Erosion Control
9:15 AM	9:40 AM	Nick Harman	SCDOT	How QC/QA Procedures can Improve Design Policies
9:40 AM	10:10 AM	Break		
10:10 AM	11:50 AM	Sufal Biswas	SCDOT	Moderator: Session 10
10:10 AM	10:35 AM	Guoming Lin	Terracon	Foundation Design and Ground Improvement for Georgia Ports Mason Mega Rail Project & SR25 Bridge over Pipemakers Canal
10:35 AM	11:00 AM	Brian Anderson	Auburn University	Evaluation of Remediation Strategies for Shrink-Swell Clays in Western Alabama
11:00 AM	11:25 AM	Chris Jones	Schnabel	Rehabilitation of Colonial Parkway using Cement Stabilized Subbase
11:25 AM	11:50 AM	Rocio Lopez-Velasco	Solmax	Geosynthetics for Energy Sector Development
11:50 AM	1:00 PM	Lunch On Your Own		