



WORKING PROGRAM
2025 Spring Geotechnical Seminar
TPC River Highlands
Cromwell, Connecticut
April 25, 2025



The 2025 Spring Geotechnical Seminar explores:
Advanced Computing Tools and AI for Geotechnical Applications

Six to Seven New York State PDHs will be offered. Questions and discussion will follow each presentation

7:00 AM – 7:30 AM	Exhibitor Setup
7:30 AM – 8:30 AM	Full Breakfast & Registration
8:30 AM – 8:40 AM	Welcome, Announcements, and Opening Remarks
8:40 AM – 9:10 AM	New Developments in Transportation Geotechnics: Digital Geotechnical Tools, Processes, and Workflow Derrick Dasenbrock, P.E., BC.GE, F. ASCE, of Minnesota DOT
9:10 AM – 9:40 AM	Presentation by Juan Pestana, Sc.D., P.E., of Geosyntec
9:40 AM – 10:10 AM	A State-of-the-Art Surface Wave Analysis Technique for Investigating the Root Cause of a Cracking Slab: A Case History Antonios Vytiniotis, Ph.D., P.E. and Seda Gokyer Erbis, Ph.D., P.E., of Geocomp
10:10 AM – 10:40 AM	Morning Break with Exhibitors and Refreshments
10:40 AM – 11:10 AM	Cross-Scale Mechanical Characterization of Rock via Big Data-Based Nanoindentation Shengmin Luo, Ph.D., A.M.ASCE, of Western New England University
11:10 AM – 11:40 AM	The Ethics of Artificial Intelligence in Engineering Frederick Hedberg, J.D., of Robinson + Cole
11:40 AM – 12:10 PM	Advancing Regional Landslide Risk Assessment with Integrated AI-Physics Solutions Xin Wei, Ph.D., of University of Michigan
12:10 PM – 1:10 PM	Lunch with Exhibitors
1:10 PM – 1:20 PM	GEO-CT Scholarship Awards
1:20 PM – 1:50 PM	Presentation by Steve Chai, of Rocscience
1:50 PM – 2:20 PM	AI-Driven Approach in Digitizing and Managing Historical Subsurface Data Scott L. Deaton, Ph.D., of Dataforensics
2:20 PM – 2:50 PM	Afternoon Break with Exhibitors
2:50 PM – 3:20 PM	Practical Generative AI Applications in Geotechnical Design Nick Machairas, Ph.D., of Haley & Aldrich
3:20 PM – 4:00 PM	Presentation by Nick Machairas, Ph.D., of Haley & Aldrich
4:00 PM	Closing Remarks