

74th Highway Geology Symposium (HGS 2025)

Morgantown, West Virginia, USA
11 - 14 August 2025

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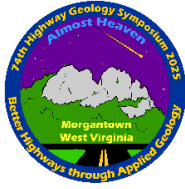
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74th Highway Geology Symposium

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TECHNICAL SESSION SCHEDULE Tuesday, August 12

	8:00 AM - 8:20 AM	Welcome and Opening Remarks	Ken Ashton Jessica Moore, State Geologist	WVGES
	8:20 AM - 9:00 AM	Geology of West Virginia	Phil Dinterman, Deputy Director	WVGES
Technical Session 1 - Young Authors				
pg. 1	9:00 AM - 9:20 AM Young Author	The Rockslides of Riggins, ID: A Review of the Road Blocking Events, Rockfall Hazards, and Slope Mitigations Along a 22-Mile Stretch of US-95 between 2020 and 2025	Ethan Guzek & James Struthers	Delve Underground
pg. 20	9:20 AM-9:40 AM Young Author	Geology of the Big Fill Landslide, Teton County, Wyoming	Lief Swanbom	Wyoming Dept. of Transportation, Geology Department
pg. 43	9:40 AM-10:00 AM Young Author	Evaluating the Role of Geology, Hydrology, and Construction Practices in West Virginia Flood-Induced Landslides	Cole Schmidt	GSI
10:00 AM-10:30 AM BREAK				
Technical Session 2				
pg. 59	10:30 AM-10:50 AM Young Author	Monitoring and Mitigation Strategies for Unstable Slopes, a Tennessee Case Study	Sebastian W. Durringer, Darren Beckstrand, Robert Jowers	Cornforth Consultants, Inc, Landslide Technologies, TDOT
pg. 79	10:50 AM-11:10 AM Young Author	Measuring from a Distance, Teton Pass Remote Sensing Technology	Hunter Hinckley	Wyoming Department of Transportation, Geology Department
pg. 101	11:10 AM-11:30 AM Young Author	Prospective Geohazard Management: The NMDOT District 2 Rockfall Study	Begum Kurtoglu, et al.	WSP USA Inc.
pg. 118	11:30 AM-11:50 AM Young Author	Use of Artificial Intelligence for Identification of Embankment Failures on a Network Level	Aliena Debelak, et al.	WSP
11:50 AM-1:00 PM LUNCH				



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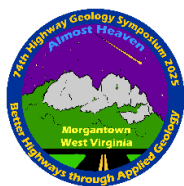
Technical Session 3			
pg. 139	1:00-1:20 Young Author	Rockfall Mitigation and Slope Stability Solutions for Interstate 78 in Bethlehem, New Jersey	Christina Comuso, Brian Felber New Jersey DOT, HNTB Corporation
pg. 161	1:20-1:40	On The Geotechnical Design Considerations and Solutions of the I-80 North Fork Bridges Project	Edward H Barefield & John D. Lasko Michael Baker International
pg. 182	1:40-2:00	Engineering Judgement, Managing Risk, and the Use of Software	Roch S. V. Player Braun Intertec Corporation
pg. 202	2:00-2:20	Design Considerations for Consolidation Grouting of the Eisenhower Tunnel	Adam Bedel, et al. Stantec Consulting, Colorado Department of Transportation
pg. 226	2:20-2:40	River Road in Wilmington, NC - A Study of Small Failures	Nick Moore & Alexandria Jones North Carolina DOT
	2:40-3:10	BREAK	
Technical Session 4 – Special Session Improving Availability of Information on Landslide Loss and Effects			
N/A	3:10-3:50	Landslide Loss Reporting at the National and State Scale	Aleeza Wilkins, Sarah Hall U S Geological Survey
N/A	3:50-4:10	Discussion 1 – Current landslide loss documentation efforts	
N/A	4:10- 4:30	Discussion 2- Future opportunities for landslide loss documentation efforts	
N/A	4:30 - 5:00	Group discussion and final wrap-up activity	



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Wednesday, August 13

Technical Session 5				
pg. 245	8:00-8:20	New Baltimore Landslide Remediation - Lessons Learned	Ala Hajdarwish and Suresh Gutta	A.G.E.S., Inc.
pg. 256	8:20-8:40	Proactive Slope Design: Mechanical Stabilization of Cut Slopes to Reduce Impacts of Landslides and Excavation Footprints	Bryan Radabaugh	Geostabilization International
pg. 257	8:40-9:00	Engineering Geology and Field Fit Solutions for Emergency Landslide Response to SH-64, Kamiah, ID	Shaun Cordes and Jim Struthers	Delve Underground
pg. 274	9:00-9:20	Performance of Micropiles Socketed into Schist Saprolite	Sarah McInnes, et al.	Pennsylvania Department of Transportation
pg. 287	9:20-9:40	The Influence of Particle Shape and Surface Roughness on the Friction Angle of Quartz Sands	Gary Norris	University of Nevada Reno
pg. 309	9:40-10:00	Blasting Design that Ensures Back Slope Stability	Daniel B Conn	Fragmentation Efficiency Services, Inc.
10:00 - 10:30		BREAK		
Technical Session 6				
pg. 327	10:30-10:50	Paw Paw Slope Stabilization- Chesapeake & Ohio Canal National Historical Park	Nicholas Strater, et al.	Brierly Associates
pg. 344	10:50-11:10	ATTERRO: A New Design Tool for Rockfall Attenuator Performance	Tim Shevlin and Remo Dudler	Geobruigg
pg. 356	11:10-11:30	Optical and Acoustic Televiewer Logging in Competent and Unstable Rock	Jorgen Bergstrom	Collier Geophysics
pg. 369	11:30-11:50	Integrated Approaches to Landslide Monitoring and Interpretation: Remote Sensing, Field Investigations, and Geomorphic Terrain Analysis in Yellowstone National Park, Montana and Wyoming	Kris Hornsby, et al.	BGC Engineering & Western Federal Lands Highway Division
11:50 - 1:10		LUNCH		



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Technical Session 7				
pg. 387	1:10-1:30	Engineering Assessment of Field Data from A Unique Drive Point Method	Paritosh Chataut, et al.	Department of Civil and Architectural Engineering, University of Wyoming
pg. 408	1:30-1:50	Enhancing Risk Management in Transportation Geotechnics Through Standardized Data Collection	Declan Vanderhor	Tablogs
pg. 419	1:50-2:10	Subsidence and Sinkhole Geohazard Investigations using Geophysical Methods	Stan Smith	Collier Geophysics
pg. 433	2:10-2:30	Slip Stick: A Low Cost Solution for Shallow Landslide Monitoring in Remote and Difficult-to-Access Terrain	Brett Dougan and Michael Hogue	Pillar Innovations
	2:30-3:00	BREAK		
Technical Session 8				
pg. 453	3:00-3:20	Geohazard Decision Support: Leveraging AI and Satellite Data for Infrastructure Resilience	Randy Post and Winston Wade	WSP USA Inc.
pg. 468	3:20-3:40	Open Roads, Open Bridge, Open...Frog? Imagining the 3D World of Geological Design with Bentley's latest 3D Subsurface Modeling Tool	D. Crotsley and W.Brandenberger	HDR Engineering
pg. 482	3:40-4:00	Highway Geology and Paleontology and Their Importance to Understanding Earth's History	E. Ray Garton	WVGES Museum
N/A	4:00-4:20	Field Trip Preview	Wayne Perkins	WV Geological Survey