

Landslide Capacity Building Virtual Seminars

Each participant will be assigned to one of three parallel sessions. Each session will include multiple presenters. With the permission of the speakers, all sessions will be recorded and made available for viewing afterwards via the IRISE website (<https://www.engineering.pitt.edu/IRISE/Events/>). The seminars will begin and conclude with short plenary sessions.

Although session assignments will be done randomly, we will do our best to accommodate anyone who has a strong preference for a specific session.

Friday, September 4 @ 11:00 AM – Landslide Monitoring and Mitigation (75-minutes)

Session A

- Jim Hamel (Hamel Geotechnical Consultants): Visual Observation and Monitoring of Landslides
- Brian Heinzl (Gannett Fleming): Route 30 Emergency Landslide Repair, Use of Technology to Expedite Action
- Bruce Roth (GAI Consultants): Mt Washington Landslide

Session B

- Dan Messmer (Gateway Engineers): Landslides in the Greater Pittsburgh Area
- Melih Demirkan (Rite Geosystems): Geotechnical Instrumentation for Landslide Monitoring
- Suresh Gutta (American Geotechnical & Environmental Services, AGES): New Baltimore Landslide – Evolution of Instrumentation

Session C

- Sebastian Lobo-Guerrero (American Geotechnical & Environmental Services, AGES): Observational Method and Traditional Survey Methods to Monitor Rockslides
- Joseph Boward (Garvin Boward Beitko): Technology Application Details of Several Local Monitoring Projects (TENTATIVE)
- Roy Painter (PennDOT): SR 4099 Emergency Slide Repair

Friday, September 11 @ 11:00 AM – Applying Technology to the Problem (75-minutes)

Session A

- Erich Zorn (DiGioia-Gray): Using Technology to Evaluate/Monitor High Hazard Inaccessible Rock Slopes
- Brent Slaker (National Institute for Occupational Safety & Health, NIOSH) Change Detection in Underground Limestone Mines Using LiDAR and Photogrammetry: Successes and Lessons Learned
- Tyler Rohan (University of Pittsburgh): Landslide Susceptibility Analysis Based on Citizen Reports to a 311 System

Session B

- Fatma Ciloglu (Michael Baker): Using Terrestrial LiDAR Techniques to Monitor Landslide Movement
- Christoph Mertz (Carnegie Mellon University's Metro21: Smart Cities Initiative): Photogrammetry and Neural Networks to Detect Form Changing Slope Conditions
- Raul Velasquez (Minnesota DOT): A Geomorphology-based Model for Vulnerability Assessment of Slopes in MnDOT

Session C

- Anthony Falbo (Fisher Associates.): Introduction to Static LiDAR Scanning
- Stanley Michalek (Mine Safety and Health Administration, MSHA): Use of Interferometric Synthetic Radar (InSAR), Radar, Laser Scanning and LiDAR to Monitor Slope Stability (TENTATIVE)
- Max Winn (University of Pittsburgh): Utilizing Terrestrial Photogrammetry to Model Landslide Features