

## 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)

**Introduction:** Julie Vandenbossche, Director, IRISE Consortium

**Session A, Moderator:** Daniel Bain, University of Pittsburgh, Department of Geology and Environmental Science

- 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, Moderator:** Eitan Shelef, University of Pittsburgh, Department of Geology and Environmental Science

- 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, Moderator:** Steven Sachs, University of Pittsburgh, Department of Civil and Environmental Engineering

- Sebastian Lobo-Guerrero (American Geotechnical & Environmental Services, AGES): Observational Method and Traditional Survey Methods to Monitor Rockslides
- Jonathan Moses (PennDOT): PennDOT District 11-0 Landslides and Remediation Techniques
- Roy Painter (PennDOT): SR 4099 Emergency Slide Repair

**Summary Remarks:** Matt Geary, Duquesne Light Company and former chair of the Pittsburgh section of the Geotechnical Institute.



## Friday, November 6 @ 11:00 AM – Applying Technology to the Problem (75-minutes)

**Introduction:** Gary Euler, Associate Director, IRISE Consortium

**Session A, Moderator:** Daniel Bain, University of Pittsburgh, Department of Geology and Environmental Science

- 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, Moderator:** Eitan Shelef, University of Pittsburgh, Department of Geology and Environmental Science

- Fatma Ciloglu (Michael Baker): Interim Risk Reduction Measures for Seepage Mitigation and Stability Improvement at Laurel Mountain State Park Water Supply Impoundment
- 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, Moderator:** Steven Sachs, University of Pittsburgh, Department of Civil and Environmental Engineering

- Anthony Falbo (Fisher Associates.): Introduction to Static LiDAR Scanning
- Stanley Michalek (Mine Safety and Health Administration, MSHA): Monitoring Ground Movements at Mining Operations
- Max Winn (University of Pittsburgh): Utilizing Terrestrial Photogrammetry to Model Landslide Features

**Summary Remarks:** Richard Gray, Principal, DiGioia, Gray & Associates and Past President of the Association of Environmental and Engineering Geologists.