

Workshop E

Slope monitoring and integrated data analytics

Sunday, October 25, 2026

Instructor: Paolo Farina and the Geoapp team

Time: 08:00 – 12:00

Language: English (with Spanish translation)

Description:

The increasing size and depth of open pit mines, together with the growing regulatory constraints imposed on mining operations, mean that the planning and implementation of slope monitoring strategies—including data analysis and interpretation—must now form an integral part of the mining cycle.

The workshop is aimed at:

- Providing an overview of key aspects in the analysis and interpretation of the most relevant monitoring datasets, including both surface and subsurface data at mine sites.
- Focusing on how data are routinely analyzed to identify changes that may indicate impending slope failure conditions.
- Presenting a workflow for the use of monitoring data to understand underlying failure mechanisms.
- Integrating monitoring data with structural data to achieve improved data interpretation.
- Presenting case studies where monitoring data have been integrated with numerical modeling to calibrate and validate model results.

**“SLOPE FOR SAFETY
PERFORMANCE”**