institute of mine seismology

35th Mine Seismology Seminar

7 – 12 June 2026, RACV Hotel, Hobart, Australia

Sunday 7 June	
08h30 - 17h30	**Mine Seismology Primer for Geotechnical Engineers**
08h30 - 17h30	**Meeting of the International Research Advisory Board of the Institute of Mine Seismology**
18h00 - 20h00	Ice-Breaker hosted by the Institute of Mine Seismology
Monday 8 June	
08h30 - 17h30	**Seminar Day 1: Lectures and Presentations on the Applications of Seismic Monitoring in Mines**
18h30 - 20h30	Dinner hosted by the Institute of Mine Seismology
Tuesday, 9 June	
08h30 - 17h30	**Seminar Day 2: Lectures and Presentations on the Applications of Seismic Monitoring in Mines**
Wednesday 10 June	
08h30 - 17h30	**Lecture: Time-lapse Changes and Healing of Earth Materials and Seismic Interferometry** Roel Snieder, Professor Emeritus, Colorado School of Mines **Lecture: Dynamic Rock Failure in Mines** Dr. Gerrie van Aswegen, Emeritus Consultant, Institute of Mine Seismology
Thursday 11 June	
08h30 - 17h30	**Course: Evaluating ground support capacity for strainbursting conditions** Dr. Peter K. Kaiser (online), President, GeoK, Inc. Dr. Alex Rigby, Senior Seismologist, Institute of Mine Seismology Dr. Dmitriy Malovichko, Head of Applied Seismology, Institute of Mine Seismology **Course: TBA**
Friday 12 June	
08h30 - 17h30	**Training in IMS Systems and Software**

Registration will be opened in January 2026.

The IMS Seminar conveniently takes place just before Hobart's iconic Dark Mofo winter festival, a city-wide celebration of art, music, light, and winter rituals. Delegates who wish to extend their stay will have the opportunity to experience one of Tasmania's most unique cultural events, with immersive performances, large-scale installations, and a vibrant night-time atmosphere that transforms the city.

Confirmed lectures and courses:

Time-lapse Changes and Healing of Earth Materials and Seismic Interferometry

Wednesday 10 June, 08h30 - 12h30

Instructor:
Prof. Roel Snieder, Professor Emeritus, Colorado School of Mines, USA

1. An overview of seismological methods for monitoring time-lapse changes, with an emphasis on quasi-continuous measurements and obtaining the sensitivity to minute changes in seismic velocity.
2. Examples of case studies of seismic velocity changes and healing of seismic velocities
3. Rock healing as a multi-process and multi-scale phenomenon.
4. The relaxation spectrum of rock healing.

Dynamic Rock Failure in Mines

Wednesday 10 June, 13h30 - 17h30

Instructor:
Dr. Gerrie van Aswegen, Emeritus Consultant, Institute of Mine Seismology

1. Rock failure basis.
2. Failure mechanisms: extension fracture, brittle shear (Ortlepp-shear). fault slip, pillar failure, dyke burst, tunnel-burst.
3. Rockburst nomenclature.

Evaluating Ground Support Capacity for Strainbursting Conditions

Thursday 11 June, 08h30 - 12h30

Instructors:
Dr. Peter K. Kaiser (online), President, GeoK, Inc.
Dr. Alex Rigby, Senior Seismologist, Institute of Mine Seismology
Dr. Dmitriy Malovichko, Head of Applied Mine Seismology, Institute of Mine Seismology

1. Determining the capacity of bolts.
2. Determining the capacity of areal support elements.
3. Establishing the remnant capacity of the support system from its components.
4. Assessing strainburst demand on the support system (including on the areal support system).
5. Identifying whether the areal support is likely to be the weakest link.
6. Examples of forensic analysis of damaging cases: comparing strainburst demand with the remnant ground support capacity.