institute of mine seismology

Mine Seismology Workshop

19-21 June 2023, Novotel Perth
(with online streaming)

Monday 19 June	09h00 – 17h00	Primer Course on the Basics of Mine Seismology and Operating Seismic Monitoring Systems in Mines
Tuesday 20 June	09h00 – 17h00	Presentations on Implementation and Applications of Seismic Monitoring in Mines
Wednesday 21 June	09h00 – 17h00	Presentations on Mine Seismology and Training in IMS Software

The registration fee is AUD 150 / day (incl. tea / coffee) for in-person attendance and AUD 75 / day for online attendance.

Presenters have 100% discount for the day of the presentation.

For more information and registration please visit IMS web site.

Monday 19 June – Day 1, The Langley Room

Primer Course on the Basics of Mine Seismology and Operating Seismic Monitoring Systems in Mines

The objective of the course is to explain the elementary principles of seismology and seismic monitoring in mines to non-seismologists: objectives of seismic monitoring in mines, seismic waves and seismic sources, seismic monitoring systems, location of seismic events, basic and derivative source parameters, source mechanisms, classification of seismic events, parameters of seismicity, analysis and interpretation of seismicity.

The second part of the course is focused on planning, budgeting, installing and mainaining of seismic monitoring systems in mines.

Tuesday 20 June – Day 2, The Langley Room

Presentations on Implementation and Applications of Seismic Monitoring in Mines

The workshop is aimed at promoting discussion on best practices for seismic monitoring in mines. These will cover various topics of mine seismology and seismic monitoring: mechanisms of seismic events and mechanics of rockburst damage, processing of seismic monitoring data, audit of assumptions adopted in mine design and planning (e.g. parameters of *in situ* stress field), re-entry protocols after blasts and large seismic events, assessment of seismic hazard and rockburst hazard.

Geotechnical practitioners are invited to share their experience with seismic monitoring at particular mines.

If you would like to present please send an e-mail to: *Denver.Birch@imsi.org*

Wednesday 21 June – Day 3, The Langley Room

Presentations on Mine Seismology and Training in IMS Software

There will be a combination of theoretical presentations and practical exercises explaining and illustrating the processing and interpretation of seismic monitoring data. Attendees with modern laptops will receive IMS software with which to perform hands-on tasks during training and gain experience. Note that in order to run IMS software, we strongly recommend a machine with at least 8GB of RAM and a modern 3D graphics card (NVidia or AMD) with up-to-date drivers installed.