

Mine Seismology Workshop



31st May, Pan Pacific Perth

The morning session is aimed at promoting novel tools and applications for seismic monitoring in mines. The focus will be on seismic hazard management, improvements of processing frameworks and as a result more qualitative data, a new web based tool to access the mines seismicity and a new re-entry tool in Ticker 3D.

The afternoon session will cover various topics of mine seismology and seismic monitoring such as modelling, interpretation of seismic data, seismic hazard management, blast and vibration monitoring and DAS in mines.

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@IMSeismology.org

The registration fee is AUD 150.00 (incl. tea / coffee and lunch). Online registration fee is AUD 75.00

For more information and registration please visit IMS web site.

Tuesday 31st May, Board Room

09h00 | **Welcome and Introduction** Dr Aleksander Mendecki & Dr Ernest Lotter (Institute of Mine Seismology)

09h15 | Seismic Hazard Management Plan: Seismic Monitoring Dr Aleksander Mendecki (Institute of Mine Seismology)

09h45 | **Ground Motion Alert Program and Re-entry- GMAP** *Dr Aleksander Mendecki & Gys Basson* (Institute of Mine Seismology)

10h30 | **NEXUS - Web-based Access to Seismic Data** *Dr Ernest Lotter* (Institute of Mine Seismology)

—— Coffee/tea break ——

11h30 | **Recent Improvements in Routine Processing of Seismic Data** *Dr Ernest Lotter & Dr Martin Gal* (Institute of Mine Seismology)

12h00 | Advances in Routine Seismic Monitoring in Mines Denver Birch (Institute of Mine Seismology)

 $12\mathrm{h}30$ | Session closure - discussion

____ Lunch _____

14h00 | **Modelling of Expected Seismicity for Planned Mining** *Gys Basson* (Institute of Mine Seismology)

14h30 | **Common Misconceptions and Mistakes in Seismic Data Interpretation** *Denver Birch* (Institute of Mine Seismology)

15h00 | **Vibration & Blast Monitoring with xES Engineering Seismograph** *Gareth Goldswain* (Institute of Mine Seismology)

15h15 | **Introduction to Distributed Acoustic Sensing** terro

 $15h45 \ | \ {\rm Using \ Fibre \ Optic \ Sensors}$ (DAS) for Geotechnical Monitoring Applications at Mines

Gareth Goldswain (Institute of Mine Seismology)

 $16h00 \ | \ \textbf{Session closure - discussion}$