



institute  
of mine  
seismology

## Mine Seismology Workshop



**12 - 13 October 2022, Sudbury, ON**

Holiday Inn

## ***Wednesday 12 October***

**12h00 - 13h00 | Welcome Lunch**

**13h00 - 17h00 | Demonstration of Advanced Functionality of Ticker3D**

There will be practical exercises explaining and illustrating the processing and interpretation of seismic monitoring data.

### **Monitoring Seismicity with IMS Ticker3D**

- Live Viewer:
  - System health and management.
  - Viewing/managing seismic data.
  - STAT (re-entry) tool.
  - TARP automated tool for control room users.
- Long Term Analysis:
  - Viewing/managing long term seismic data.
  - Production data management, basic reports.
  - Sensitivity analysis.
  - Seismic plots.
- Modelling
  - Viewing of plastic and or elastic modelling results.

## ***Thursday 13 October***

### **08h00 - 10h00 | Morning Session I - Seismic System Health and Maintenance**

08h00 - 08h15 | Morning coffee and tea

08h15 - 09h00 | What can go wrong with seismic monitoring - *Stephen Meyer*

09h00 - 09h45 | Seismic system health - *Thomas Huelin*

09h45 - 10h00 | Open discussion and questions

### **10h00 - 10h30 | Morning Tea**

### **10h30 - 12h30 | Morning Session II - Mine Seismology A**

10h30 - 11h00 | Identification of seismically active geological structures - *Stephen Meyer*

11h00 - 11h30 | Forensic analysis of a damaging event - *Daryl Rebuli*

11h30 - 12h00 | Using seismic data to understand the stress field - *Andres Ambros*

12h00 - 12h30 | New developments in IMS autoprocessing and event classification - *Stephen Meyer*

### **12h30 - 13h30 | Lunch**

### **13h30 - 15h00 | Afternoon Session I - Geophysics A**

13h30 - 14h00 | Passive seismic imaging: Applications in mineral exploration and tailings dams - *Miro Doring*

14h00 - 14h30 | Travel time tomography - *Miro Doring*

14h30 - 15h00 | Monitoring using ambient noise - *Miro Doring*

### **15h00 - 15h30 | Afternoon Tea**

### **15h30 - 17h30 | Afternoon Session II - Mine Seismology B**

15h30 - 16h00 | Characteristics of seismicity and estimation of the principal stress direction using seismic data at Renard Mine - *Rebecca Hauta*

16h00 - 16h30 | Eleonore Mine - Seismic Challenges - *Jonathan Szirti*

16h30 - 17h00 | Copper Cliff Mine - Installing the Lower 810 OB Seismic System - *Andrew Breckon*

### **17h00 - 17h15 | Closing**

For more information and registration please visit IMS web site.