

ACG MONITORING THE PERFORMANCE OF UNDERGROUND EXCAVATIONS WORKSHOP PROGRAMME*

07:45 Registration

08:20 Welcome and Introduction *Professor Yves Potvin, Australian Centre for Geomechanics*

THEME 1: TECHNOLOGIES FOCUSING ON CONVERGENCE MEASUREMENTS FROM REPEATED LASER SURVEYS

08:30 Real-Time Artificial Intelligence Technology for Mining Development *Benny Chen, GroundProbe Pty Ltd*

09:00 Capturing Data Beyond Line of Sight – How Latest Developments in Emesent’s Hovermap Technology are Unlocking New Valuable Insights for Underground Mining Operations *Dr Stefan Hrabar, Emesent*

09:30 Overbreak, Time-Dependent Deformation using the UGPS Rapid Mapper *Adam Alkayal, Luossavaara-Kiirunavaara AB (LKAB), Luleå University of Technology, Sweden*

10:00 MORNING BREAK

10:30 Geotechnical Applications of Integrated Laser Scans with High-resolution Imagery at Cadia East *Lawrence Custodio, Newcrest Mining*

11:00 *Geoff Potgieter, Glencore Mount Isa Mines (To be advised)*

11:30 The Application of 3D Laser Scanning Technologies in Seismically Active and High Stress Environment – Case Study: Frog’s Leg Mine *Glen Rodwell, Evolution Mining*

12:00 Audience Discussion *Facilitators: Professor Yves Potvin & Associate Professor Johan Wesseloo, Australian Centre for Geomechanics*

12:30 LUNCH

THEME 2: CONVENTIONAL INSTRUMENTATION

13:30 SMART Lighting Systems for Visually Alarming in Mining Monitoring Programs - a PTFI Case Study *Nick Ruddell, MDT*

14:00 Active Convergence and Deformation Monitoring of Underground Excavation Using Wireless Mesh Networks *Simon Steffen, Elexon Mining*

14:30 Ultrasonic Rockbolt Sensing for Better Ground Control *Dr Zhigang Sun, National Research Council Canada, Canada*

15:00 AFTERNOON BREAK

15:30 Instrumentation Used to Gather Geotechnical Data from Drillholes *Chris Chester, OZ Minerals*

16:00 Audience Discussion *Facilitators: Professor Yves Potvin & Associate Professor Johan Wesseloo*