The growing popularity of caving methods around the world is largely due to the very low production cost and the intrinsic safety associated with the mining approach. It is often the only viable mining method for some of the lower grade massive orebodies that are becoming too deep for open pit mining.

Cave mining has become one of the most research intensive areas of mining engineering in recent times. Mining companies need to be kept informed of the latest technological developments from caving research, and researchers require a regular platform to present their results and interact with industry practitioners.

The Australian Centre for Geomechanics looks forward to hosting the Fourth International Symposium on Block and Sublevel Caving in Vancouver. This follows previous symposia held in Santiago in 2014; Perth, 2010 and Cape Town, 2007.
07:00 REGISTRATION OPEN
07:50 REGISTRATION CLOSE
08:00 Welcome, introduction and opening address J. Jakubec, SRK Consulting (Canada) Inc., Canada
08:30 KEYNOTE: Optimising for success at the Grasberg Block Cave P. Campbell, Freeport-McMoRan Inc., USA; H. Banda, J. Fajtar, PT Freeport Indonesia, Indonesia; C. Brannon, Freeport-McMoRan Inc., USA
09:00 Safely re-opening a collapsed extraction level drive in a resource-limited environment N. Shen, R.W. Sinclair, TM Welsh, Climax Molybdenum, USA
09:30 Sublevel retreat mining in the subarctic: a case study of the Diavik Diamond Mine PA Lewis, LM Clark, SJ Rowles, CP Auld, CM Petryshen, AP Elderkin, Rio Tinto, Canada
09:45 Underground mining at Ekati and Diavik diamond mines J. Jakubec, D. Lapadat, SRK Consulting (Canada) Inc., Canada; B. Boggi, Dominion Diamond Mines ULC, Canada; LM Clark, PA Lewis, Rio Tinto, Canada
10:00 MORNING BREAK
10:30 Palabora Lift 1 block cave: understanding the grade behaviour T. Diering, Dassault Systèmes, Canada; SN Ngidi, JJ Bezuidenhout, HD Poetzold, Palabora Mining Company, South Africa
11:00 Increasing productive capacity in block caving mines J. Shelswell, PO Labrecque, Labrecque Technologies Inc., Canada; DM Morrison, Centre for Excellence in Mining Innovation, Canada
11:30 Cave to mill: improving value of caving operations A. Moss, B. Klein, S. Nadolski, The University of British Columbia, Canada
12:00 An approach to evaluating block and panel cave projects for sensor-based sorting applications S. Nadolski, B. Klein, The University of British Columbia, Canada; CJR Hart, Mineral Deposit Research Unit, Canada; A. Moss, D. Elmo, The University of British Columbia, Canada
12:15 Grade control and segregation at New Gold’s New Afton block cave operation, Kambalda, British Columbia MG Herney, New Gold Inc., Canada
12:30 LUNCH
13:30 Three-dimensional simulation of cave initiation, propagation and surface subsidence using a coupled finite difference–cellular automata solution Y. Hebert, S. Sharrock, Itasca Australia Pty Ltd, Australia
14:00 Back-analysis of PC1 cave propagation and subsidence behaviour at the Cadia East mine B. Sainsbury, Noma Consulting and Deakin University, Australia; D. Sainsbury, Noma Consulting, Australia; D. Carroll, Newcrest Mining Limited, Australia
14:30 A re-evaluation of the conceptual model of caving mechanics P. Cumming-Potvin, J. Wesseloo, Australian Centre for Geomechanics, The University of Western Australia, Australia; SW Jacobsz, E. Kearsley, University of Pretoria, South Africa
14:45 Numerical simulations of a centrifuge model of caving P. Cumming-Potvin, J. Wesseloo, Australian Centre for Geomechanics, The University of Western Australia, Australia; MD Perez, Pierce Engineering, USA; T. Garza-Cruz, L. Boulanger, Itasca Consulting Group, USA; SW Jacobsz, E. Kearsley, University of Pretoria, South Africa
15:00 Suggested methods for estimation of confined strength of heterogeneous (defected) rocks B. Bohan, Dalhousie University, Canada; P. Kaisar, Laurentian University, Canada; A. Garkum, Dalhousie University, Canada
15:15 Review and simulation of passive seismic tomography in block cave mining S. Ghaychi Afrouz, EC Westman, Virginia Polytechnic Institute and State University, USA
15:30 AFTERNOON BREAK
16:00 Hang-up analysis and modelling for Cadia East PC1-51 and PC2-51 R. Cayton, Advanced Mining Technology Center, University of Chile, Chile; D. Cuillio, Newcrest Mining Limited, Australia
16:15 Integrated simulation and optimisation tools for production scheduling using finite element analysis caving geomechanics simulation coupled with 3D cellular automata S. Andjelcev, Monash University, Australia; T. Bui, T. Diering, Dassault Systèmes, Canada; I. Austen, Newcrest Mining Limited, Australia; R. Hocking, QZ Minerals Limited, Australia
16:30 Presence of natural fracture as an indicator of operational difficulty for cave operations M. Munkhchuluun, Oyu Tolgoi LLC, Mongolia; D. Elmo, S. Nadolski, The University of British Columbia, Canada; A. Moss, Sonal Mining Technology, Canada; B. Klein, The University of British Columbia, Canada
16:45 Influence of rock mass veining and non-persistent joints on secondary fragmentation during block caving L. Dorador, E. Eberhardt, D. Elmo, The University of British Columbia, Canada
17:00 Underground roadway design considerations for efficient autonomous hauling R. Thompson, Curtin University Western Australian School of Mines, Australia; H. Molaei Khanabi, Curtin University, Australia
17:15 Influence of the undercut height on the behaviour of pillars at the extraction level in block and panel caving operations E. Hormazabal, R. Alvarez, A. Russo, D. Acevedo, SRK Consulting (Chile) S.A., Chile
17:30 Optimisation of the undercut level elevation in block caving mines using a mathematical programming framework R. Noriega, Y. Pourrahimian, WL Victor, University of Alberta, Canada
17:45 Principal sponsor presentation: Beck Engineering
17:55 DAY ONE CLOSE
* This programme is subject to change. For updates, please visit www.caving2018.com
PROGRAMME*

DAY TWO | TUESDAY | 16 OCTOBER 2018

EAST MEETING ROOM 1-3

KEYNOTE ADDRESS AND SESSION 6: SUBLEVEL CAVING

SESSION CHAIR AGL Davies, New Gold Inc., Canada

08:00 KEYNOTE: Key geotechnical knowledge and practical mine planning guidelines in deep, high-stress, hard rock conditions for block and panel cave mining D Cuello, G Newcombe, Newcrest Mining Limited, Australia

08:30 Early cave management at the Carrapateena sublevel cave R Hocking, G Balog, J Ommerod, H Pearce, OZ Minerals Limited, Australia

09:00 Design of a new layout for sublevel caving at depth C Quinteiro, Luossavaara-Kiirunavaara Aktiebolag (LKAB), Sweden

09:30 Full-scale experiments to measure the effect of crosscut height on recovery in sublevel cave mines AD Campbell, Beck Engineering, Australia

09:45 Effects of blast ring burden and explosive density on fragmentation and ore recovery in sublevel cave mines AD Campbell, Beck Engineering, Australia

10:00 MORNING BREAK

SESSION 7: RESEARCH AND INNOVATION

SESSION CHAIR E Eberhardt, The University of British Columbia, Canada

10:00 Benchmarking and its application for caving projects IT Ross, CaveConsult Pty Ltd, Australia

11:00 Strategy for research and development in the cave mining industry GA Ferguson, Settrust Associates Limited, UK; D Cuello, Newcrest Mining Limited, Australia; P Gandara, Codeco, Chile; Y Potvin, Australian Centre for Geomechanics, The University of Western Australia, Australia; E Rojas, Codeco, Chile

11:30 The role of research in cave mining SD McKinnon, Queen’s University, Canada; GA Ferguson, Settrust Associates Limited, UK

11:45 A systems approach to mining innovation DM Mores, V Dyrell, Centre for Excellence in Mining Innovation, Canada; PO Labrecque, Labrecque Technologies Inc., Canada

12:00 LUNCH

SESSION 8: MINE PLANNING (2)

SESSION CHAIR S Webster, CMOC, Australia

13:00 Grasberg Block Cave mine: cave planning and undercut sequencing D Beard, C Brannon, Freeport-McMoRan Inc., USA

13:30 Chuquicamata underground mine design: the simplification of the ore handling system of Lift 1 P Paredes, T Leaño, L Jauriat, Codeco, Chile. Presented by Y Martinez, Codeco, Chile

14:00 Maximising resource utilisation in scheduling of underground mining works with multiple faces D Cortes, Y Martinez, Codeco, Chile; M Silva, Züblin, Chile

14:15 Overview of mine scheduling for Oyu Tolgoi Underground project S Fowke, B Groeneveld, Rio Tinto, Australia

14:30 Development planning for the Oyu Tolgoi panel cave mine R Crook, F Prince, Rio Tinto, Australia

14:45 Developing projects using CaveLogic™ M Arancibia, F Soto, Maptek, Chile

15:00 AFTERNOON BREAK

SESSION 9: SEISMICITY (1) – TOOLS TO MANAGE SEISMIC RISK

SESSION CHAIR D Stead, Simon Fraser University, Canada

15:30 Development and implementation of the Short Term Activity Tracker and Mine Control Trigger Response System S Meyer, Institute of Mine Seismology, Australia; G Bosson, Institute of Mine Seismology, Australia

15:45 Rapid assessment of the spatial extent of strong ground motion in mines – ShakeMap approach S Meyer, Institute of Mine Seismology, Australia; J Doolan, C Chester, Newcrest Mining Limited, Australia; G Bosson, Institute of Mine Seismology, Australia

16:00 Towards physics-based hazard assessment tools for developing blanket re-entry rules W de Beer, ESG Solutions, Australia; L Smith-Boughner, G Viegas, K Bosman, D Angus, ESG Solutions, Canada

SESSION 10: SEISMICITY (2) – CAVE FRONT TRACKING

SESSION CHAIR D Stead, Simon Fraser University, Canada

16:15 Tracking cave shape development with microseismic data R Lynch, S Meyer, E Lötter, Institute of Mine Seismology, Australia; J Lett, Newcrest Mining Limited, Australia

16:30 Identifying a migrating stress front using apparent stress for an unplanned rock mass cave LG Brown, MR Hudyma, Laurentian University, Canada

16:45 Mapping cave front growth utilizing the collective behaviour of seismicity and velocity fields G Viegas, K Bosman, D Angus, ESG Solutions, Canada; W de Beer, ESG Solutions, Australia; T Urbanic, ESG Solutions, Canada. Presented by L Smith-Boughner, ESG Solutions, Canada

17:00 Major sponsor presentation: ESG Solutions

17:05 DAY TWO CLOSE

18:30 Symposium dinner – Top of Vancouver Restaurant, 555 W Hastings St, Vancouver

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* This programme is subject to change. For updates, please visit www.caving2018.com
## Session 1: Introduction and Welcome

**08:00** 
**Keynote:** Past learnings focus innovative solutions to future cave mining  
C. Stearns, A. van As, E. Peebles, Rio Tinto, Australia

**08:30** 
**Footnote Finder tool for sublevel caving**  
T. Diering, Dassault Systèmes, Canada; Y. Potvin, J. Hadjigeorgiou, University of Toronto, Canada

**09:00** 
**REBOP–FLAC3D hybrid approach to cave modelling**  
M. A. Mauro, J. Jakubec, SRK Consulting (Canada) Inc., Canada; J. Martinsson, Luleå University of Technology and Luossavaara-Kiirunavaara Aktiebolag (LKAB), Sweden

**09:30** 
**Experiments and simulation of gravity flow in block caving through FlowSim**  
R. Castro, Advanced Mining Technology Center, USA; A. LeRiche, De Beers Group of Companies, South Africa

**09:45** 
**Non-vertical cave and dilution modelling at New Gold’s New Afton Mine**  
J. Parsons, D. Hamilton, New Gold Inc., Canada; C. Ludwicki, Dassault Systèmes, Canada

**10:00** 
**MORNING BREAK**

## Session 2: Seismicity

**10:30** 
**Seismic hazard management: a block cave solution**  
M. P. Frangoulas, Itasca Consulting Group, USA; M. E. Pierce, Pierce Engineering, USA; T. Katsaga, Itasca Consulting Canada, Canada

**11:00** 
**Analysis of a damaging seismic event on 24 December 2011 in the Pilar Norte sector of El Teniente mine**  
D. Malovichka, Institute of Mine Seismology, Australia; D. Cuello, Newcrest Mining Limited, Australia; E. Rosas, Codelco, Chile

**11:30** 
**Developing a monitoring network for surface subsidence at New Gold’s New Afton block cave operation**  
MA Makin, J. Jakubec, SRK Consulting (Canada) Inc., Canada; J. Martinsson, Luleå University of Technology and Luossavaara-Kiirunavaara Aktiebolag (LKAB), Sweden

**12:00** 
**Testing the suitability of radio frequency identification cattle tags for tracking block cave progression**  
M. J. Wilson, G. V. Van Hout, E. Deane, Rio Tinto, Australia

**12:15** 
**InSAR monitoring of subsidence induced by underground mining operations**  

**12:30** 
**LUNCH – POSTER SESSIONS AT 12:45, EAST MEETING ROOM 1-3**

## Session 3: Ground Support

**13:00** 
**InSAR as a practical tool to monitor and understand large-scale mining-induced ground deformations in a caving environment**  
K. M. Keijzer, E. D. Stöckel, T. Savilahti, Luossavaara-Kiruna-vaara Aktiebolag (LKAB), Sweden; J. Sjöberg, Itasca Consultants AB, Sweden; J. Dudley, MA McParland, R. Morin, MDA Geospatial Services, Canada

**14:00** 
**Understanding and managing surface subsidence at New Gold’s New Afton block cave operation**  
A. G. Davies, D. Hamilton, New Gold Inc., Canada; MA Clayton, BGC Engineering Inc., Canada

**14:30** 
**Development of a monitoring network for surface subsidence at New Gold’s New Afton block cave operation**  
MA Clayton, J. Martinsson, Luleå University of Technology and Luossavaara-Kiruna-vaara Aktiebolag (LKAB), Sweden; J. Jakubec, SRK Consulting (Canada) Inc., Canada

**14:45** 
**numerical modelling of dynamic testing for rock reinforcement used in underground excavations**  
E. Marambio, L. Burgos, University of Chile, Chile; C. Gonzalez, MIRARCO Mining Innovation, Canada; I. Castro, JP Saure, Compañía Siderúrgica Huachipato, Chile; J. Uzcátegui, Teklo Ingeniería Ltda., Chile

**15:00** 
**Testing the suitability of radio frequency identification cattle tags for tracking block cave progression**  
M. J. Wilson, G. V. Van Hout, E. Deane, Rio Tinto, Australia

**15:15** 
**AFTERNOON BREAK**

## Session 4: Ground Support

**15:45** 
**Characterising the behaviour of rockbolts based on in situ pull tests**  
J. Hadjigeorgiou, University of Toronto, Canada; P. Tomasone, Mining Plus, Canada

**16:00** 
**Discrete element modelling of a laboratory static test on welded wire mesh**  
F. Erismann, B. Baek, J. Hadjigeorgiou, University of Toronto, Canada

**16:15** 
**An empirical comparison between new and existing laboratory-based dynamic sample configurations**  
G. Knox, A. Berghorst, P. de Bruin, New Concept Mining, South Africa

**16:30** 
**Rapid mine development using efficient in-cycle shotcrete**  
F. E. Brede, D. Hamilton, New Gold Inc., Canada; M. Hansson, Sika Services AG, Sweden; R. Erlango, Sika Indonesia, Indonesia

**16:45** 
**Numerical modelling of dynamic testing for rock reinforcement used in underground excavations**  
E. Marambio, L. Burgos, University of Chile, Chile; C. Gonzalez, MIRARCO Mining Innovation, Canada; I. Castro, JP Saure, Compañía Siderúrgica Huachipato, Chile; J. Uzcátegui, Teklo Ingeniería Ltda., Chile

## Session 5: Caving Data

**17:00** 
**Using a structured data management system to improve mine development efficiencies**  
E. Savage, T. Moaroch, Oyu Tolgoi LLC, Mongolia; S. Tulu, Rio Tinto, Australia

**17:15** 
**Geotechnical data collection and approach to modelling for the Cukaru Peki deposit**  
K. Lewelyn, SRK Consulting (UK) Ltd, UK; J. Jakubec, SRK Consulting (Canada) Inc., Canada; M. Goddard, SRK Consulting (UK) Ltd, UK; P. Stenhouse, Polyphase Consulting Ltd, New Zealand

**17:30** 
**Major sponsor presentation: Sika**

**17:35** 
**Closing address and farewell**  
Y. Potvin, Australian Centre for Geomechanics, The University of Western Australia, Australia

**17:45** 
**SYMPOSIUM CLOSE**
POSTER SESSION - 12:45 DAY THREE, EAST MEETING ROOM 1-3

Application of mathematical modelling for draw control under material flow uncertainty F Khodayari, Y Pourrahimian, University of Alberta, Canada; E Ben-Awuah, Laurentian University, Canada. Presented by R Noriega, University of Alberta, Canada

Microseismic monitoring of the Oyu Tolgoi Hugo North Lift 1 J-P Mercier, Rio Tinto, Mongolia; A van As, Rio Tinto, Australia; C Carlson, B Tumur-Ochir, Rio Tinto, Mongolia

Evaluation of caving as a mining method for the Udachnaya underground diamond mine project M Tishkov, ALROSA PJSC, Russia

SYMPOSIUM DINNER

The Caving 2018 Symposium dinner will be an opportunity for delegates to socialise, network and enjoy a delicious meal with a spectacular 360 degree view of Vancouver.

Venue: Top of Vancouver Restaurant, 555 W Hastings St, Vancouver

Date: Tuesday 16 October 2018
Time: Pre-dinner drinks at 6:30pm, dinner at 7:00pm

LABORATORY TOUR, EARTH SCIENCE BUILDING, DEPT OF EARTH, OCEAN AND ATMOSPHERIC SCIENCES, UNIVERSITY OF BRITISH COLUMBIA

The ACG is facilitating a university laboratory tour for attendees only of the Fourth International Symposium on Block and Sublevel Caving. The University of British Columbia is generously offering a tour of their Geological Engineering laboratories.

Date: Friday 19 October 2018
Time: 9am (own transport)
Venue: Atrium of UBC Earth Science Building, 2020-2207 Main Mall, Vancouver

To register, and to learn more, see caving2018.com/site-visit

CAVE MINING FORUM WORKSHOP

Sunday 14 October 2018 | Simon Fraser University | Vancouver, Canada

PRELIMINARY WORKSHOP PROGRAMME

8:30 – Registration
9:00 – Presentations
12:00 – Catered lunch
1:00 – Workshop and panel discussion
3:00 – Social function (Steamworks Pub)

CONTACT INFORMATION

To register, please contact Alice Huynh at ahuynh@srk.com

Presentations:
Rehabilitation of a Converged Drawpoint at the New Afton Mine
Corey Kamp, New Afton

Part 1: An Innovative Transition to Mass Mining
Steve Olson, North American Palladium

Part 2: Integrated Particle Flow Modeling: From Concept to Operations
Steve Olson, North American Palladium & Scott O’Connor, Deswik Mining Consultants

Effective Cave Draw Strategies to Manage Point Loading/Crushing of the Extraction Level
Andre Van As, Van As Consulting

Effective Ground Support Strategies for Rehabilitating the Extraction Level
Sami Talu, Rio Tinto

Rehabilitation in Weak Ground – Cassiar and Other Case Studies
Jarek Jakubec, SRK Consulting

Cave Recovery After Major Failures
Alan Guest, Alan Guest Technical Consulting

www.caving2018.com
ABOUT THE WORKSHOP

This interactive and informative ACG workshop will explore both the technical and practical aspects of ground support in cave mining operations. The workshop is designed to assist mining personnel involved with the design and implementation of cave mining ground support.

WHO SHOULD ATTEND?

Mine managers, mining engineers and geologists, mining supervisors and operators, suppliers of ground support equipment, mining contractors and consultancies and mines inspectors may benefit from attending the workshop.

WORKSHOP FACILITATOR

Professor Yves Potvin
Director
Australian Centre for Geomechanics, Australia

REFRESHMENT BREAK SPONSOR

Visit acg.uwa.edu.au/sponsorship for the workshop sponsorship proposal

PROGRAMME* | 18 OCTOBER 2018

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<th>Session</th>
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<td>07:15</td>
<td>REGISTRATION</td>
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<tr>
<td>08:15</td>
<td>Welcome and introduction Professor Yves Potvin, Australian Centre for Geomechanics, Australia</td>
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<td></td>
<td>Session 1: Extraction/undercut support, 8:30 – 10:00</td>
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<td></td>
<td>Extraction level ground support design for post-undercut in high stress and hard rock environments David Cuello, Newcrest Mining Limited, Australia</td>
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<td>Progression of New Afton extraction level ground support Corey Kamp, New Gold Inc., Canada</td>
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<td>Ground support designs for cave footprint and learnings from other caves Sami Talu, Rio Tinto, Australia</td>
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<td>Ground support performance and designs for existing caves and their extensions at Northparkes Sarah Webster, CMOC, Australia</td>
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<td>Discussion</td>
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<td>10:00</td>
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<td>Session 2: Ground support in rockbursting condition, 10:30 – 12:00</td>
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<td></td>
<td>Ground support strategy for rockburst prone ground Chris Chester, Newcrest Mining Limited, Australia</td>
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<td>New dynamic support unit at Telfer operations Mollie Poulter, Newcrest Mining Limited, Australia</td>
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<td>Implementation of mechanised installation of ground support in rockburst areas Juan Pablo Ruiz-Tagle Jara, Mas Errazuriz, Chile</td>
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<td>Forecasting ground support replacement using corrosion and strain Chris Griffiths, Golder Associates Ltd, Canada &amp; Januar Fajar, Freeport-McMoRan Inc, USA</td>
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<td>Discussion</td>
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<td>12:00</td>
<td>LUNCH</td>
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<td>Session 3: New products/suppliers, 13:00 – 14:30</td>
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<td>Reinforcement, support and equipment innovations for caving mines Mike Rispin, Normet Group, USA</td>
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<td>Qualification of dynamic ground support – current and future trends Adrian Berghorst, New Concept Mining, Canada</td>
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<td>Improved installation properties of rockbolts utilising pumpable resin system Uwe Wyink, BASF Construction Solutions GmbH, Germany</td>
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<td>New developments and applications of dynamic chainlink meshes and associated MESHA unrolling device Erik Rorem, Geobrugg North America, USA</td>
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<td>Discussion</td>
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<td>14:30</td>
<td>AFTERNOON BREAK</td>
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<td>Session 4: Ground support in sublevel caving mines, 15:00 – 16:00</td>
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<td>Managing geotechnical hazards in sublevel cave mines through design, sequence and support Alex Campbell, Beck Engineering Pty Ltd, Australia</td>
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<td>Ground support strategy for rockburst prone ground Dr Carlos Quinteiro, Luossavaara-Kiirunavaara AB (LKAB), Sweden</td>
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<td>16:00</td>
<td>Discussion and wrap-up</td>
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<td>16:30</td>
<td>WORKSHOP CLOSE</td>
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To register online go to www.caving2018.com/registration/

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*First Name ____________________________

Preferred Name ____________________________

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*Mine/Dept ____________________________

*Address ____________________________________________

Phone ____________________________________________

Fax ____________________________________________

Mobile ____________________________________________

*Email ____________________________________________

*All confirmations/event updates will be sent via email.

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☐ I give permission for the ACG to forward me ACG research, training and/or education information advice, including electronic communications.

☐ I require an invitation letter for visa purposes (please forward a copy of your passport information page). For more information regarding Canadian visas, please visit https://www.canada.ca/en/services/immigration-citizenship

View the list of attending organisations at www.caving2018.com

PAYMENT
Total payment AUD/CAD 1100/1125
Payment to be received by 12 October 2018. All bank fees are the responsibility of the registrant. All prices include GST.
ABN 37 882 817 280

PAYMENT OPTIONS
☐ Electronic Funds Transfer (EFT): Please return this completed form to info-acg@uwa.edu.au and the ACG will send you an invoice with EFT details included.

☐ Credit Card: Please register online at www.caving2018.com/registration/ or return this completed form to info-acg@uwa.edu.au and phone the ACG on +61 8 6488 3300 to provide credit card details. (Visa and Mastercard are the only cards we accept.)