Keynote papers

KEYNOTE: What are the real risks for tailings facilities? BS Brown, Bruce Brown Consulting Pty Ltd, Australia

KEYNOTE: Major hazards associated with cave mining – are they manageable? G Flores-Gonzalez, Newcrest Mining Limited, Australia

KEYNOTE: Understanding, managing, and communicating geomechanical mining risk J Hadjiigeorgiou, University of Toronto, Canada

KEYNOTE: Geotechnical risk-informed decision-making in mining J Lupo, Newmont USA Limited, USA

KEYNOTE: Risk-based access control at Mount Isa Copper Operations G Potgieter, A Grubb, Mount Isa Mines, Australia

Assessing uncertainty and variability and the risk and opportunity value of information

Construction of a damage risk model for football drifts J Andrijaševich, H Basarir, The University of Western Australia, Australia; J Wesselloo, Australian Centre for Geomechanics, The University of Western Australia, Australia

Quantifying uncertainty in mining geomechanics design MJ Dunn, Evolution Mining, Australia

Economic significance of geotechnical uncertainties in open pit mines R Jele, Evolution Mining, Australia

Geotechnical value quantification through real options J Venter, ECF Hamman, AngloGold Ashanti Ltd, Australia

Qualitative and quantitative assessment of mining geotechnical risk and risk-based design

Calibration of a seismic hazard assessment tool using velocity fields and geotechnical data Y Abolfazlazadeh, L Smith, Z Anderson, A Jailbout, A Mataseje, ESG Solutions, Canada

A measured risk approach to managing the design and operation of a tailings storage facility JP Coffey, JD Plunkett, Rio Tinto Iron Ore, Australia

Getting back to basics: risk fundamentals applied to the geotechnical engineering of tailings storage facilities JP Coffey, N Susic, Rio Tinto Iron Ore, Australia

Probabilistic stability analyses for sedimentary deposits A Duran, Pells Sullivan Meynink, Australia

Reliability-based tailings risk management SM Gover, Golder Associates Africa (Pty) Ltd, South Africa

Using qualitative risk assessment as a leading indicator for geotechnical risk in mining ECF Hamman, J Venter, AngloGold Ashanti Ltd, Australia

Geomechanical risk analysis for Chuquicamata open pit closure alternatives E Hormazabal, SRK Consulting (Chile) S.A., Chile; R Ledezma, M Arellano, Codelco, Chile; LF Contreras, SRK Consulting (South Africa) (Pty) Ltd, South Africa

Geotechnical design and uncertainty in residual soil slopes KT Mandisodza, MJ Dunn, Evolution Mining, Australia

Data-driven geohazard assessment: practice and pitfalls WJ McGaughey, Mira Geoscience Ltd, Canada

Combining expert opinion and instrumentation data using a Bayesian network to carry out stope collapse risk assessment R Mishra, R Kiuru, L Uotinen, M Janiszewski, M Rinne, Aalto University, Finland

Seismic exclusions and re-entry from a risk perspective S Tierney, KR Woodward, J Wesselloo, Australian Centre for Geomechanics, The University of Western Australia, Australia

Production-associated risk factors of seismicity in the Kiirunavaara mine J Vatcher, Itasca Consultants AB, Sweden; M Bošković, Luossavaara-Kiirunavaara Aktiebolag (LKAB), Sweden; J Sjöberg, Itasca Consultants AB, Sweden

Communicating geotechnical risk to different stakeholders

Improving board assurance of technical and operational risks in mining AC Atkins, Alex Atkins & Associates Pty Ltd, Australia; M Ritchie, Professional Auditor, Australia

Using an integrated monitoring platform to communicate geotechnical risk to project stakeholders WJ Conrad, AM Neuwirt, Canary Systems, Inc., USA

Development of the mine geotechnical risk index S Narendranathan, M Cheng, GHD, Australia

Challenges with the use of risk matrices for geohazard risk management for resource development projects M Porter, M Lato, BGC Engineering Inc., Canada, P Quinn, BGC Engineering Inc., Belgium, J Whittall, BGC Engineering Inc., Canada

Management of mining geotechnical risk

Risk management in a large-scale slope instability with active pushbacks in an open pit JA Calderón, JJ Muñoz, Minera Escondida Ltda., Chile

A measured risk approach to managing the design and operation of a tailings storage facility JP Coffey, JD Plunkett, Rio Tinto Iron Ore, Australia

Key considerations when developing a risk management framework for tailings facilities AG Gagnon, Lundin Mining Corporation, Canada

Geotechnical risk in mining methods and practice: critical issues and pitfalls of risk management BK Hebblewhite, UNSW Sydney, Australia

Use of the excavation compliance indicator at the Oyu Tolgoi copper–gold mine, Mongolia A Juldiz, Oyu Tolgoi LLC, Mongolia

Review of the practical effectiveness of thin spray-on liners based on information from suppliers and observations from the mining industry MJ Kanda, TR Stacey, University of the Witwatersrand, South Africa

Geohazard risk management for linear transportation M Lato, BGC Engineering Inc., Canada, P Quinn, BGC Engineering Inc., Belgium; M Porter, S Newton, BGC Engineering Inc., Canada; R Dixon, SDN Wessels, L Wessels, Rio Tinto Iron Ore, Australia; D Sirosi, M Levesque, Iron Ore Company of Canada, Canada

InSAR tools for risk assessment over mine assets JL Morgan, TRE Altamira Inc., Australia; D Colombo, F Meloni, TRE Altamira Inc., Italy

*As of 31 January 2019. Accepted papers list is subject to change. For updates, please visit www.mgr2019.com
A practical safety risk model for monitoring program design J Venter, ECF Hamman, AngloGold Ashanti Ltd, Australia
Managing geotechnical risk in multi-pit operations SDN Wessels, R Dixon, Rio Tinto Iron Ore, Australia
Managing geohazard risk during exploration at remote locations in rugged terrain and tropical environments J Whittall, P Quinn, M Luto, M Porter, BGC Engineering, Canada; B Bowden, J Drew, M Croaker, Rio Tinto Exploration, Australia
A case study: managing decline deformation in an active sublevel caving operation MJ Woods, S Fitch, J Doolan, DS Barnett, Newcrest Mining Limited, Australia
Integration of geotechnical risk in mine planning and mine design processes KMR Gosche, MC Brockman, DJ du Plooy, AngloGold Ashanti Ltd, Australia

The role of the GMRI in managing operational geotechnical risk KMR Gosche, MC Brockman, DJ du Plooy, AngloGold Ashanti Ltd, Australia

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