ACCEPTED PAPERS*

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 Hadjigeorgiou, 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 footwall drifts *J Andrijasevich, H Basarir, The University of Western Australia, Australia; J Wesseloo, 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 Abolfazlzadeh, L Smith, Z Anderson, A Jalbout, 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 geotechnical hazard 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 Wesseloo, 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 Sirois, 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

ACCEPTED PAPERS*

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

*As of 31 January 2019. Accepted papers list is subject to change. For updates, please visit www.mgr2019.com

Accessing geomechanical excellence

Online Repository of Conference Proceedings

Since 2000, the ACG has published conference papers across the geotechnical mining spectrum, including: underground and open pit mining, paste and thickened tailings and mine closure. The ACG Online Repository aims to provide the mining geomechanics fraternity with open access to peer-reviewed conference papers that may assist readers to maintain and develop their skills, knowledge and capabilities.

This highly interactive and searchable repository provides importable citation information in various formats, links to the paper authors' profiles on ORCID, ResearchGate and LinkedIn, as well as the ability to share papers on social media. Setting a benchmark for technology transfer and accessibility, this valuable online resource will continue to develop and grow with each new ACG event. The papers from the First International Conference on Mining Geomechanical Risk will be openly accessible from the Online Repository, courtesy of the MGR 2019 Open Access Sponsor, SRK Consultling.

View the current offering at **papers.acg.uwa.edu.au**

srk

Open Access Sponsor