

Keynote papers

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 Asia Pacific, USA*

KEYNOTE: What are the real risks associated with tailings management? *B Brown, Bruce Brown Consulting Pty Ltd, Australia*

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

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

Construction of a damage risk model for footwall drift *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 *M Dunn, Evolution Mining, Australia*

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

Implications of sensor limitations on seismic risk evaluation and management *IG Morkel, J Wesseloo, Australian Centre for Geomechanics, The University of Western Australia, Australia*

Geotechnical value quantification through real options *J Venter, Anglo Gold Ashanti, 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 Mataseje, ESG Solutions, Canada*

Quantifying and minimising risk of catastrophic failure in large hard-rock surface mines *A Brown, Adrian Brown Consultants, Inc., USA*

A visual and quantifiable representation of the rockfall risk rating at George Fisher mine *B Burchmann, N Gamble, Glencore, Australia*

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

Improving risk assessment processes for open pit rope access work at KCGM *J Darbritz, KCGM, Australia*

Study of the effect of the truncation of input parameters in the probabilistic analysis of slope stability *T Freitas de Porfírio Sousa, BWG Da Silva, BA Pacheco de Assis, Universidade de Brasília, Brazil*

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

Subjective probability and its role in geotechnical risk management *L Hayman, Soma Geotechnical Pty Ltd, Australia*

A review of the applications and approach of the observational method in underground hard rock mines *E Jones, A Campbell, D Beck, Beck Engineering, Australia*

Reliability analysis of seawalls facilitating coastal mining *T Kanime, Stellenbosch University, South Africa; J Potgieter, SW Jacobsz, University of Pretoria, South Africa*

Strata technical framework for open cut coal mine design *I Kelso, Glencore Coal Assets Australia, Australia*

Calibrating and testing of the forecasts of seismic hazard for planned mining sequences *D Malovichko, Institute of Mine Seismology, Australia*

Geotechnical slope designing and mining in residual soils *K Mandisodza, M Dunn, Evolution Mining, Australia*

Data-driven geotechnical hazard assessment: practice and pitfalls *J McGaughey, Mira Geoscience Ltd., Canada*

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

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

Risk-based access control at Mount Isa copper operations *G Potgieter, A Grubb, Mount Isa Mines, Australia*

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

Communicating geotechnical risk to different stakeholders

Improving board assurance of technical and operational risks in mining *A Atkins, Alex Atkins & Associates Pty Ltd, Australia*

Using an integrated monitoring platform to communicate geotechnical risk to project stakeholders *W Conrad, A Neuwirt, Canary Systems, Inc., USA*

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

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

Management of mining geotechnical risk

Risk management in a large-scale slope instability with active pushbacks in an open pit *JAC Becerra, JJM Perez, Minera Escondida Ltda, Chile*

A measured risk approach to managing the design and operation of a tailings storage facility *J Coffey, J Plunkett, Rio Tinto, Australia*

Mining using the observational mining method at Rio Tinto *I Daggars, A Vickery, H Sobhan, Rio Tinto, Australia*

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Geotechnical risk management at Sossego Mine *G De Rezende Tammerik, Vale S.A., Brazil*

A case study managing decline deformation in an active sublevel caving operation *J Doolan, S Fitch, M Woods, Newcrest Mining Limited, Australia*

Corporate risk management framework development for tailings and water retention structures *A Gagnon, Lundin Mining, Canada*

Management of slope instability risk using geotechnical monitoring data *N Harries, IDS GeoRadar, Australia*

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

Risk management in an open pit mine with large scale deformations: A case study of the Teal gold project *D Hemraj, M Fowler, Pells Sullivan Meynink, Australia; G Haywood, Intermin Resources, Australia*

Management of geotechnical risk of remnant mining at Darlot Gold Mine *L Johnson, Red5, Australia; M Neale, Entech Pty Ltd, Australia; J Yates, Red5, Australia*

Use of the excavation compliance indicator at the Oyu Tolgoi copper–gold mine, Mongolia *A Juldyz, M Campbell, C Shijirbaatar, S Ganbaatar, 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*

InSAR in the clouds: satellite-based monitoring at PT Freeport Indonesia *J Leighton, 3v Geomatics, Canada; M Sullivan, PT Freeport Indonesia, Indonesia; S Alipour, 3v Geomatics, Canada*

Geohazard risk management for linear transportation *M Lato, P Quinn, M Porter, S Newton, BGC Engineering, Canada; R Dixon, F Wessels, L Wessels, D Sirois, Rio Tinto Iron Ore, Canada*

Managing geohazard risk during exploration *M Lato, M Porter, J Whittall, P Quinn, BGC Engineering, Canada; B Bowden, J Drew, M Croaker, Rio Tinto Exploration, Australia*

Tailings dam management *M Malekzadeh, Southern Cross University, Australia*

Risks and benefits from historical analysis using satellite InSAR *A McCardle, D Holden, J Leighton, 3v Geomatics, Canada*

InSAR tools for risk assessment over mine assets *J Morgan, TRE Altamira Inc., Australia; D Colombo, G Falorni, TRE Altamira Inc., Italy*

Mining applications of adaptive risk management *CM Rice, WS Dunbar, University of British Columbia, Canada*

A practical safety risk model for monitoring program design *J Venter, Anglo Gold Ashanti, Australia*

Managing geotechnical risk in multi-pit operations *F Wessels, R Dixon, Rio Tinto Iron Ore, Australia*

Integration of geotechnical risk in mine planning and mine design processes

Reducing the probability of pre-mature mine closure through risk-based modeling: case study – mines of Zanjan Province, Iran *M Pouresmaeili, University of Zanjan, Iran; A Ebrahimabadi, E Pouresmaeili, S Nouri, Islamic Azad University, Iran*

Rock mass behaviour and mining strategy at Toguraci underground mine *R Rabbani, K Fahmi, D Firmansyah, MY Pungus, U Singh, JB Suroto, NHM Newcrest Indonesia, Indonesia*

Failure envelope estimation considering spatial distribution of the data *R Rimmelin, BHP, Australia; R Riquelme, Geoinnova, Chile*

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