

RESOURCE OPERATORS CONFERENCE 2025

The next **Resource Operators Conference** will be hosted in 2025 by the Sustainable and Geomechanics mining group of the University of Southern Queensland, Springfield Campus, Brisbane, on 6 and 7th February 2025. The face-to-face event will address issues relating to various aspects of modern mining operations, both surface and underground and offers the opportunity for industry experts to share research and insights. This two-day event includes technically enriching industry presentations and exhibitions. Sponsorship is most welcome.

The following is the list of papers, scheduled for presentation over the two days.

- Ross Seedsman:** Factoring-in deformations when specifying roof support (keynote paper)
- Sankalpa Fonseka, Pabasara Wanniarachchige:** Comparative analysis of machine learning and traditional methods for rock strength prediction
- Edwin Gan, Edward Gan, Alex Remennikov:** Experimental analysis and risk assessment of projectiles expelled from mine openings due to underground coal mine explosions.
- Ken Mills:** Influence of bedding plane shears associated with topography on overburden behaviour around underground coal mines
- James Anderson, Jarred Stanes:** Rib support design and the coal mass rating relationship
- Matthew Boyle and Tim Britten:** CT scanning of coal microstructure and its relationship to burst prone structure
- Yvette Heritage:** CT scanning of coal microstructure and its relationship to burst prone structure
- Dorna Emami, M. Serati, H. Asche, M. Booy:** Particle projection of fire-induced shotcrete spalling.
- Liahona Yang, Mehdi Serati, Paul Buddery:** Stress and strain measurement for large physical model based on 3D-DIC
- X. Zhu, Mehdi Serati, H. Asche, N. Jackson, A. Gayler:** Chloride penetration of shotcrete with crushed waste glass as fine aggregates.
- Mahdi Saadat, Mattin Khishvand, Andrew Seccombe, and Richard Campbell:** A comprehensive python tool for predicting mining-induced subsidence.
- Libin Gong:** 3D numerical modelling of supported longwall installation road excavation
- Richard Campbell:** Polymeric ground consolidation chemical testing and quantification of in-situ performance
- Basil Beamish, Jan Theiler:** Self-heating behaviour of fractured in-situ coal from a practical example at NSW mine
- Ashkan Rastegarmanesh, Ali Mirzaghobanali, Kevin McDougall, Naj Aziz, Sina Anzanpour, Hadi Nourizadeh, Mahdi Moosavi, Abbas Taheri:** Investigating the rotation of cable bolts during pull out tests
- Ningping Yao, Qianhui Ji, Quanxin Li, Perng Fang, Chao Xu, Jianqiang Wang:** Application of long-distance underground directional drilling technology in coal mines
- Nourizadeh Hadi, Entezam Alireza, Mirzaghobanali Ali, McDougall Kevin, Burry Polly and Naj Aziz:** Development of environmentally friendly grout products for cable bolt encapsulation.
- Entezam Shima, Jodeiri Shokri Behshad, Mirzaghobanali Ali, Nourizadeh Hadi, McDougall Kevin, and Naj Aziz:** Load transfer mechanisms of composite rock bolts,
- Ian Gray:** Stresses within the roof of a longwall in massive strata
- Ian Gray:** Eliminating groundwater problems by massive scale hydrofracture with grout
- Erdenechimeg Purevjav, Oyuntsetseg Dash, Ariunjargal Tsedenbat, Urjinkhand Sodnomdarjaa:** Study of processing for 1:200 000 scale topographic maps of Mongolia
- Boldbaatar Chultemgombo, Ariunjargal Tsedenbat, Erdenechimeg Purevjav, Urjinkhand Sodnomdarjaa:** Geotechnical study on Salhit silver-gold open-pit mine.
- Baljinnyam Erdenetsoo, Lodoysamba sereeter, Otgonjargal Nominjargal, Zrigt-erdene Battuvshin:** Road dust suppression using lignosulfonate on unpaved road
- Masoud Samaei, Roohollah Shirani Faradonbeh, Erkan Topal:** Path optimisation for drill rigs: a step toward full automation in mining,
- Adel Mottahedi, Naj Aziz, Alex Remennikov, Matthew Holden, Robert Galluzzi, Peter Craig:** Shear testing of rock bolts for hard rock mining

All submitted papers are reviewed, presented and published in the conference proceedings, which is available online for the betterment of the industry needs. For further information about the conference, past publications and sponsorship please visit <https://ro.uow.edu.au/coal/>. The conference is sponsored and supported by:



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