

The University of Queensland - St Lucia campus - building 47a- room 249

Thursday 5th February 2026

Thursday 5th February 2026	
07:30 – 08:00	Registration and Coffee
08:00 – 08:30	Welcome and Plenary session - Chair: Saied Aminossadati
<p>Welcome and conference opening:</p> <p>Speakers from Universities: Naj Aziz (UOW), Professor Ali Mirzaghorbanali USQ and Professor Peter Knights (UQ)</p>	
08:30 – 10:30	Technical Session I (Special session) – Chairs: Naj Aziz & Ali Mirzaghorbanali
<ol style="list-style-type: none"> 1. Keynote Speaker: Dr David Olivero: Design of High-Performance Rock Bolted Thin Shotcrete Linings: From Basics to Advanced Concepts (30 Minutes) 2. Keynote Speaker: Dr Mehdi Zoorabadi: Rock Engineering Design: The Risk of Overconfidence in Uncertain “Established” Methods (30 Minutes) 3. Cristina Bagnus: Ground Horizontal Displacements Above the Edges of Longwall Panels 16, 17 And 18 At Broadmeadow Mine, QLD 4. Yvette Heritage: Mining Induced Hydraulic Conductivity above Longwall Panels – a New Approach of Estimating the Relative Hydraulic Conductivity, SCT, Wollongong 5. Richard Campbell: Quantifying the Risk of Thermal Runaway and Induced Spontaneous Combustion due to Polymeric Chemical Injection 	
10:30 – 10.50	Morning Tea
10.50 – 12:30	Technical Session II - Chairs: Basil Beamish and Cristina Bagnus:
<ol style="list-style-type: none"> 6. James Anderson and Alex Lim Kent McTyer: Keystone Failure Using Hydrofracking for Windblast Control, Australian Mining Group Pty Ltd and Centennial Coal 7. Raymond L Johnson Jr and James Tauchnitz: Improving CMM Pre-Drainage Results in Emerging and Increasingly More Difficult Reservoir Drainage Conditions, Novus Fuels 8. Sahar Ardehali, Mehmet Kizil, Peter Knights: Autonomous Truck Capacity Optimization for Surface Operation <p style="text-align: center; color: red;">Sponsor presentation (10 minutes) Sponsor presentation (Sandvik)</p>	
12:30 – 13:30	Lunch
13:30 – 15:00	Technical Session III - Chair: Mehdi Zoorabadi & Borya Orkhontuul
<ol style="list-style-type: none"> 9. Mahdi Saadat: Mattin Khishvand, Andrew Seccombe and Richard Campbell: A Damage-Based Safety Factor Framework for Evaluating Unsupported Stability in Flac3C-Imass 10. Hadi Nourizadeh, Alireza Entezam, Behshad Jodeiri Shokri, Shima Entezam, Kevin McDougall, Peter Craig, Naj Aziz and Ali Mirzaghorbanali: Thermal Behaviour and Bond Performance of Polyester Resin-Anchored Rock Bolts in Underground Applications. 11. iunjargal Tsedenbat, Baasankhuu Chinbeleg, Borkhuu Nyamtsetseg, Byambaa Amgalanbaatar and W. Qingzaorige: Geotechnical Study of an Open-Pit Gold and Polymetallic Ore Deposit: Case Study of the Altan Nar Epithermal Deposit. Mongolia. <p style="text-align: center; color: red;">Sponsor presentation (Quarry Mining)</p>	
15:00 – 15:30	Afternoon Tea
15:30 – 17:30	Technical Session IV - Chairs: Eleonora Widzyk-Capehart & Behshad Jodeiri Shokri
<ol style="list-style-type: none"> 12. Edwin Gan, Edward Gan, Alex Remennikov and Ting Ren: Risk based Safety- Mapping Projectile Hazards in Underground Coal Mine 13. Angela Dayani and Shevaune Zeng: A Machine Learning Approach to Predicting Spontaneous Combustion Propensity in Australian Coal, Simitar, Queensland 14. Basil Beamish, Jan Theiler and Beau Fernance: Practical Spontaneous Combustion Hazard Assessment for Risk management <p style="text-align: center; color: red;">Sponsor presentation (Strata Worldwide, Australia)</p>	

Sponsors Gold



Friday 6th February

8.0 – 10:30

Technical Session V - Chairs: Mehmet Kizil & Rohollah Shirani

15. **Warren Roach:** Large PCD bit development, Sandvik. Australia
16. **Pabasara Kumari Wanniarachchige, Anne Alards and Vinod Jayan Sylaja:** Integrating CO₂ Abatement Pathways and Second-Use Mine Technologies: A Life Cycle Assessment of Mine-Hosted Geothermal Systems, UOW
17. **Mahdi Saadat, Mattin Khishvand and Richard Campbell:** 2D And 3D Slope Stability Analysis Using Flac3D Strength Reduction Approach, Black Rock Solution, Qld.
18. **Jan-Philip Merkl, Franz Wianski and Luitpold Fried:** Bio-Based Dust Suppression for Haul Roads in an Australian Iron Ore Mine, Germany
19. **David Cliff:** Science and Spontaneous Combustion, UQ

Sponsor presentation (Normet Pty Ltd and)

10:30 – 10:50

Morning Tea

10:50 - 12:40

Technical Session V – Chairs: David Cliff & Mehdi Serati

20. **Mehmet Siddik. Kizil, Patrick Robinson and Saied Aminossadati:** Developing a Framework for Selecting Electrical Mining Material Haulage Systems, UQ
23. **Qianhui Ji, Si Qin:** Research on real time seismic monitoring along with mining or extraction, Azure Mining Technology
21. **Erdenechimeg Purevjav and Khosbayar Orosoo:** Results of the Terrestrial Laser Scanning Survey in the Underground Mining of the Oyu Tolgoi Project to Determine Cross Penetrating Length and Volume, Mongolia

Sponsor presentation (Jenmar Australia)

12:40 – 13:30

Lunch

13:30 – 16.00

Technical Session VI - Chairs: Richard Campbell & Saied Aminossadati

22. **Mark Kleinhans, Thaamara Warnasooriya, Eleonora Widzyk-Capehart, Amre Eizad, Neville Atkinson, Mark Lydon and Greg Napper:** Likelihood of Thermal Ignition due to Intrinsically Safe Power Supplies – Initial Findings, Simitar, Queensland
23. **Kye Will, Mark Kleinhans, Ehsan Arzaghi, Eleonora Widzyk-Capehart*, Amre Eizad:** Evaluation of Methane Gas Detector Performance under Varying Step Changes in Gas Concentrations
24. **Xuanyu Zhu, Mehdi Serati and Harry Asche:** Shotcrete Durability with Fine Aggregate Alteration, UQ.
25. **Masoud Samaei, Roohollah Shirani Faradonbeh, Erkan Topal, Joshua Goodwin and Kieran Charles:** A Scalable Mixed-Integer Linear Programming Model for Multi-Pit, Multi-Rig Drilling Scheduling
26. **Alireza Entezam, Hadi Nourizadeh, Polly Burey, Behshad Jodeiri Shokri, Shima Entezam, Kevin McDougall, Peter Craig, Naj Aziz and Ali Mirzaghorbani:** Circular Economy in Underground Mining: Application of Waste Materials in Cementitious Grouts

16.00

Conference closure

Additional accepted papers in the conference will be published online

27. **Richard Campbell and Libin Gong:** Towards a Rock Mechanics Design of Polymeric Chemical Consolidation for Longwall Mining Applications, Blackrock Mining solutions Pty Ltd
28. **Altantsetseg Sarna, Tserendavga Tsend-Ayush, Borya Orkhontuul and Gombo-Ochir Erdenesant:** Study of producing Calcium Molybdate from Molybdenum concentrate, Mongolia
29. **Adel Mottahedi, Naj Aziz, Alex Remennikov and Ali Mirzaghorbani:** A comparative study on Load Transfer Capacity of various rock bolting system
30. **Baigalmaa Norov, Narantuya Purevjav, Khurelbaatar Battur, Mend Nergui, Dhiman Kumer R, Chinbat Khishigee and Nangyal Khan:** Preliminary Result of Geological and Exploration Results of the 'Uvdug Tsav' Brown Coal Deposit In Bayantumen, Dornod Province, Mongolia
31. **Izzan Nur Aslam and Jaeheon Lee:** Systematic Review and Critical Assessment of Column and Bioleaching of Copper Ores: Mechanisms, Efficiencies, and Sustainable Pathways
32. **Reza Akhtar, Hadi Nourizadeh, Ali Mirzaghorbani, Amin Motallebiyan, Naj Aziz:** A Review of The Past Studies on Using Recycled Plastic Waste in Cementitious Grout for Rock and Cable Bolt Encapsulation:
33. **Alireza Entezam, Hadi Nourizadeh, Behshad Jodeiri Shokri, Shima Entezam, Polly Burey, Kevin McDougall, Peter Craig, Naj Aziz, Ali Mirzaghorbani:** Semi-Empirical Modelling of Uniaxial Compressive Strength (UCS) in Cementitious Grouts with Recycled Glass Waste
34. **Ariunjargal Tsendenbat, Ekhlenbaatar Ganjargal:** Geotechnical study of the Buuruljuutiin open-pit coal mine, Mongolia

Silver

normet

STRATA
WORLDWIDE

QUARRY MINING
CONSTRUCTION EQUIPMENT PTY LTD

Supporters

AusIMM

BBUGS

NUGS
New South Wales (Geological) Contractors Society

MINE MANAGERS ASSOCIATION OF AUSTRALIA