

Tuesday 21 July 2026

09:00 - 09:30	Registration
	<p>PARK HYATT – FAIRMONT ROOM 1</p> <p>Workshop: Rock Mass Classification</p> <p>Lunch</p> <p>Workshop: Numerical Modelling Workshop</p>
	<p>PARK HYATT – FAIRMONT ROOM 2</p> <p>Workshop: Deformation-based Support Design and Rockburst Hazard Assessment</p> <p>Lunch</p> <p>Workshop: Deformation-based Support Design and Rockburst Hazard Assessment</p>
17:30 - 19:00	Welcome Drinks hosted by “Women in AGS” Committee, Park Hyatt Trilogy Room

Wednesday 22 July 2026

08:00 - 08:30	Registration & Coffee
	PARK HYATT – BALLROOM
08:30 - 09:00	Welcome to Country & Opening Address
09:00 - 10:00	Keynote Speaker: Rock Fragmentation: Theories and Applications – Professor Seokwon Jeon
10:00 - 10:30	Invited Speaker: A stochastic approach for the prediction of large discontinuity shear strength – Professor Olivier Buzzi
10:30 - 10:40	Q&A
10:40 - 11:10	Morning Break
	<p>PARK HYATT – BALLROOM <i>GEHAZARDS – ROCK SLOPE ENGINEERING, RISK ASSESSMENT AND DISASTER PREVENTION</i></p> <p>PARK HYATT – FAIRMONT ROOM <i>ADVANCED COMPUTATIONAL AND DATA-DRIVEN METHODS</i></p>
11:10 - 11:15	Gold Sponsor Presentation: Beck
11:15 - 11:20	Geohazard rockfall assessment – Integration of geological field mapping and lineament analysis for mountainous region in the Kingdom of Saudi Arabia. – Marthinus Mathee and Luke Brouwers
11:30 - 11:45	Structural controls of two townships in the Otway Ranges and the use of domains to inform residential landslide risk assessment – Dane Pope
11:45 - 12:00	Investigating rockfall failure mechanism trends across sedimentary strata from the Newcastle Coal Measures – Abigail Watman, Davide Ettore Guccione, Anna Giacomini and Klaus Thoeni
	<p>Gold Sponsor Presentation: Beck</p> <p>Intergrating Drone-Based Imagery and AI for GSI Determination at Hidden Valley Mine – Lianne McKenzie, Paulina Paredes, Yush Rajcoomar and Richard Yang</p> <p>Leveraging tabular foundation model for data-sparse geomechanical characterisation – Zizhuo Xiang, Simon Holford, Rosalind King, Joung Oh, Guangyao Si and Ismet Canbulat</p> <p>Fracture-based rock mass strength characterisation: Insights from synthetic rock mass modelling of jointed hard rock – Ivan Haryono</p>

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	<p>PARK HYATT – BALLROOM <i>GEOHAZARDS – ROCK SLOPE ENGINEERING, RISK ASSESSMENT AND DISASTER PREVENTION</i></p>	<p>PARK HYATT – FAIRMONT ROOM <i>ADVANCED COMPUTATIONAL AND DATA-DRIVEN METHODS</i></p>
12:00 - 12:15	<p>Shipwreck Coast Geohazard Management: Loch Ard Blowhole Lookout and Limestone Arch Stability – Tom Casey and Jack Wang</p>	<p>Hybrid finite-discrete element modelling of side crack formation and rock chipping process by dynamic indentation under confined conditions – Hongyuan Liu, Muhammad Kamran, Daisuke Fukuda and Qianbing Zhang</p>
12:15 - 12:30	<p>Enhancing the structural resilience of rockfall barriers – Adam Morrison, Stu Mason and Remo Dudler</p>	<p>Integrating Automated Core Image Analysis and Structural Modelling for Brownfield Geotechnical Characterisation: A Case Study from Stawell Gold Mines. – Luis Yanez Garcia and Beth Askew</p>
12:30 - 12:45	<p>Rapid Site Conceptual Models as a Cornerstone for Rock Slope Risk Assessment: Insights from TfNSW Applications – Ryan O’Neill</p>	<p>An Integrated AI-Driven Platform for 3D Tunnel Face Characterisation and Digital Reporting – Sangmin Na, Jay Lee, Chuyen Pham, Byungchan Kim and Hyusoung Shin</p>
12:45 - 13:45	<p>Lunch</p>	
	<p>PARK HYATT – BALLROOM <i>ADVANCES IN ROCK MASS CHARACTERISATION CLASSIFICATION AND STRENGTH CRITERIA</i></p>	<p>PARK HYATT – FAIRMONT ROOM <i>CIVIL ENGINEERING – TRANSPORT, WATER, AND PUMPED HYDRO</i></p>
13:45 - 13:50	<p>Gold Sponsor Presentation: PSM</p>	<p>Gold Sponsor Presentation: PSM</p>
13:50 - 14:05	<p>A comparative analysis of field-measured and borehole televiewer-estimated rock quality designation (RQD) and their implications for the design of rock-socketed piles – Craig Brock, Jarreau Alinur, Susmitha Kinda, Gareth Hay and Nay Win</p>	<p>Primary and permanent support of the Westmead caverns – Michael Salcher, Daniel Borbely, Mei Ai Khoo, Marika Mullerova and Tom Olorenshaw</p>
14:05 - 14:20	<p>Facts, interpretations and opinions in rock mass classification systems used in tunnelling - an uncomfortable truth – Phil Clark</p>	<p>Span Limits and Stability of Large Underground Caverns: Feasibility, Design and Future Directions – Wing Kei Kong and Yuri Karlovsek</p>
14:20 - 14:35	<p>Correlation of Geological Feature Orientation with Overbreak in Drill-and-Blast Tunnels – Saeed Zafari, MeiAi Khoo and Brian Mahon</p>	<p>Design and construction of hydro tunnel intake and outlet excavation in Tasmania – Juno Liang, Jeremy Toh, Richard Brehaut and Jamie Campbell</p>
14:35 - 14:50	<p>Rock mass classification in a double bench Quaternary Basalt quarry to inform potential high density residential development – Dane Pope and Greg Kennedy</p>	<p>The use of Discreet Fracture Networks to inform multimodal failure mechanism of rock slopes: A Synthesised Case Study from the Tasmanian Dolerite of Mount Nelson – Christian Dodge and Edward Cox</p>
14:50 - 15:05	<p>Disillusioned GIS / Hoek-Brown – Robert Bertuzzi</p>	<p>Assessing the use of Borehole Magnetic Resonance (BMR) in conjunction to packer testing to estimate hydraulic conductivity in fractured rock – Mateo Garcia and Elsa Tasse</p>
15:05 - 15:20	<p>Deformation properties of weathered seams in Hawkesbury Sandstone bedrock back-analysed from a large cable jacking test, Lucas Heights, Sydney – Strath Clarke</p>	<p>An approach to design of foundation socket subject to horizontal load in high in-situ stress conditions – Qijing Yang and Bo Xu</p>
15:20 - 15:50	<p>Afternoon Break</p>	

Wednesday 22 July 2026

PARK HYATT – FAIRMONT ROOM 1 <i>MINING – HIGH-STRESS ENVIRONMENTS, DEEP MINING CHALLENGES, AND SUSTAINABLE MINING PRACTICES</i>		PARK HYATT – FAIRMONT ROOM 2 <i>DATA COLLECTION, LABORATORY AND IN-SITU TESTING</i>	
15:50 - 15:55	Gold Sponsor Presentation: Macquarie Geotechnical	15:50 - 15:55	Gold Sponsor Presentation: Macquarie Geotechnical
15:55 - 16:10	Shake-downs and strain bursts in coal mine roadways – Ross Seedsman	15:55 - 16:10	Stresses in real rock masses – Ian Gray and Dmitrii Morozov
16:10 - 16:25	Numerical modelling and optimization of the undercutting disc-cutter parameters – Volkan Satar, Murat Karakus, Giang Nguyen, Ting Ren and Mehmet Kizil	16:10 - 16:25	Geotechnical data capture ahead of TBM cutterhead below sensitive surface infrastructure in Sydney – Matthew Smith, Boon Chia Weng, Michael Salcher and Laang Shyh Lee
16:25 - 16:40	The Underground Mine Drive Risk Index (MDRi) - An Upgrade – Wouter Hartman, Rupesh Kumar Verma, Antonio Vidal da Silva and Mike Turner	16:25 - 16:40	An Experimental Investigation on Orientation-Dependent Fragmentation in Brittle Blocks with Discontinuities – Saroj Kundu, Davide Guccione, Maddalena Marchelli, Anna Giacomini and Olivier Buzzi
16:40 - 16:55	Insights on the applicability of tributary area theory in room-and-pillar mines at shallow depths – Dong-Ho Yoon, Jae-Joon Song and Alireza Fereshtenejad	16:40 - 16:55	Direct shear testing in concrete dams: from rock discontinuities to lift joints and dam–foundation interfaces – Radin Espandar
16:55 - 17:10	Construction methods and ground load and strain analysis of medium-span tunnels – Inzagi Suhendar, Dzakwan Naufal Pratama, Simon Heru Prasetyo, Yudhidya Wicaksana & Ridho Kresna Wattimena	16:55 - 17:10	A review of multistage triaxial test data to understand implications for measured rock strengths when using imminent failure to terminate multistage test stages. – Kai Koosmen, Alex Duran and Greg Kennedy
17:10 - 17:25	Sustainable Backfill Solutions using calcinated clay to reduce ordinary Portland Cement consumption – Tai Lang , Nadia Bustos and Ernesto Villaescusa	17:10 - 17:25	Probabilistic Stability Assessment of Underground Mining Structures Through Discrete Fracture Network Modelling: A Case Study in Western Australia – Edwin Orlando Malliquinga Coch and Roohollah Shirani Faradonbeh
PARK HYATT – BALLROOM			
18:30 - 21:30	Conference Dinner		

Thursday 23 July 2026

08:00 - 08:30	Registration & Coffee
PARK HYATT – BALLROOM	
08:30 - 08:35	Day 2 Welcome Address
08:35 - 09:35	Keynote Speaker: Towards a conceptual model of rock mass post-failure behaviour (rock masses are broken rock) – Professor Leandro R Alejano
09:35 - 10:05	Invited Speaker: From Post-Peak to Rockburst: Advancing Risk Assessment in Deep Mines – Professor Murat Karakus
10:05 - 10:15	Q&A
10:15 - 10:45	Morning Break

Thursday 23 July 2026

	<p>PARK HYATT – BALLROOM <i>ADVANCES IN ROCK MASS CHARACTERISATION, CLASSIFICATION AND STRENGTH CRITERIA</i></p>		<p>PARK HYATT – FAIRMONT ROOM <i>MINING – HIGH-STRESS ENVIRONMENTS, DEEP MINING CHALLENGES, AND SUSTAINABLE MINING PRACTICES</i></p>
10:45 - 10:50	Gold Sponsor Presentation: Equilibrium Mining		Gold Sponsor Presentation: Equilibrium Mining
10:50 - 11:05	Determining 20th Percentile Rock Mass Geotechnical Parameters for Dam Foundation Design – Mousa Hazrati Aghchai and Mike McAuley		Modelling the effect of geological structures on strainburst dynamics and associated seismic radiation pattern – Alex Rigby, Dmitriy Malovichko and Peter Kaiser
11:05 - 11:20	A review of different methods used for analysing piles socketed in rock under lateral loading – Arunodi Abeyrathne		Estimating bulking factor for rock around tunnels using LiDAR data – Alex Rigby, Dmitriy Malovichko, Moe Moridi and Peter Kaiser
11:20 - 11:35	Better rock mass characterisation with new data and domaining – Amirreza Shakib, Anton Kopic, Mark Bunch, Duy Thong Kieu, Nigel Cook and Benjamin Crettenden		Acoustic Characterisation of Damage Evolution in Brittle Rocks – Jiangwan He, Arthur De Alwis and Mehdi Serati
11:35 - 11:50	Are We Overemphasising Triaxial Tests on Intact Rock – Mahdi Zoorabadi		Field-based characterisation of blast-induced damage using UAV photogrammetry and acoustic televiewer logging – Milad Aftabi, Klaus Thoeni, George Kouretzis and Jinsong Huang
11:50 - 12:05	Acid-Induced Mechanical Degradation of Shale Caprock in Depleted Gas Reservoirs for Underground Hydrogen Storage – Pramod Dilshan, Samantha Perera and Saeed Salimzadeh		Quantifying Rock Strength Degradation Caused by Weathering Events - a Simulation Study – Yixiao Huang, Matthew Tsang, Jimmy Li and Zhongwei Chen
12:05 - 12:20	Precursory Seismic Response of Geological Structures – Lizbeth Yana, Nadia Bustos and Ernesto Villaescusa		Impact of Cyclic Wetting and Drying on the Weathering Behaviour of Hunter Valley Sandstone – Gamsavi Kanagasundaram, Anna Giacomini, Olivier Buzzi, Jubert Pineda and Silvia Frisia
12:20 - 13:20	Lunch		
	<p>PARK HYATT – BALLROOM <i>ADVANCED COMPUTATIONAL AND DATA-DRIVEN METHODS</i></p>		<p>PARK HYATT – FAIRMONT ROOM <i>DATA COLLECTION, LABORATORY AND IN-SITU TESTING</i></p>
13:20 - 13:25	Gold Sponsor Presentation: Precision Geotechnical Services		Gold Sponsor Presentation: Precision Geotechnical Services
13:25 - 13:40	Field testing and accuracy benchmarking of a novel zero-drift Lidar SLAM system – Lachie Campbell, Emrich Hamman, Anthony Smith, Lammie Nienaber, Damian Reardon, Yanyang Gu and Madeleine Warner		In-situ direct shear tests on slickensided bedding partings - new benchmark for testing – Karsten Thermann, Christoph Bühler, Mahdi Zoorabadi, Juan Silva Meche and Damiano Frontini
13:40 - 13:55	A 2.5-dimensional numerical approach for prediction of tunnelling-induced ground movement – Zhongyu Xu and Douglas Tun		Investigation of the hydraulic properties in the zone of relaxation around open pits – Elsa Tasse and Anna Greve
13:55 - 14:10	Domain-Based Prediction of Uniaxial Compressive Strength and Rock Quality Designation from Full-Waveform Sonic Data – Thong Kieu, Anton Kopic, Amirreza Shakib and Maryam Parsajoo		Experimental and Numerical Characterization of the Dynamic Tensile Fracture Process in the Spalling Test – Gyeongjo Min, Tetsuya Amie, Daisuke Fukuda, Hongyuan Liu, Satoru Kawasaki, Jun-ichi Kodama and Sangho Cho
14:10 - 14:25	Numerical Analysis of Dynamic Rock Fracture and Fragmentation by Blasting based on a GPGPU-Parallelized FSI Model – Daisuke Fukuda, Osamu Tashiro, Gyeongjo Min, Yoshiaki Takahashi, Tei Saburi and Shiro Kubota		Role of Bedding Layers on the Soundless Rock Fragmentation Efficiency of Sandstone – Dhammika Piramanayalage and Wasantha Liyanage
14:25 - 14:40	Predictive 3DEC Bonded Block Model (BBM) Analysis of Caving Mechanisms and Ground Control in an Australian Underground Mine – Mahdi Saadat, Mattin Khishvand, Andrew Seccombe and Richard Campbell		Zero-confinement triaxial testing: A more reliable approach than UCS for intact rock characterisation – Abtin Rooz and Bre-Anne Sainsbury

Thursday 23 July 2026

14:40 - 15:10	Afternoon Break
	PARK HYATT – BALLROOM
15:10 - 15:40	Invited Speaker: Geomechanical Response of Depleted Gas Reservoirs on the Underground Hydrogen Storage Process – Dr Samintha Perera
15:40 - 16:10	Invited Speaker: Simulating the Unseen in Rock Mechanics – Dr Sevda Dekhoda
16:10 - 16:40	Invited Speaker: Engineering Snowy 2.0 – A reflection on the geotechnical and tunnelling journey so far – Ben Chapman
16:40 - 16:55	Q&A
16:55 - 17:15	Closing Ceremony & Awards – Qianbing Zhang
	PARK HYATT – BALLROOM FOYER
17:15 - 18:45	Concluding Drinks

Friday 24 July 2026

07:30 - 18:00	Field Trip: Stawell Underground Laboratory	Field Trip: Great Ocean Road
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