



ROCKENG 2025, the 23rd Canadian Rock Mechanics Symposium, 17th - 19th August 2025		
VENUE: École de technologie supérieure (ÉTS) Montréal, Pavillion A, Montréal, Québec, Canada		
DAY-1: 17 AUGUST 2025, SUNDAY		
08:00 - 12:00	Workshops and short courses	
12:00 - 13:00	Lunch	
13:00 - 16:30	Workshops and short courses	
16:30 - 20:00	Opening reception and cocktail at ÉTS	
20:00 - 22:30	Young Professionals (YP) event - Non YPs welcome! (Doors open at 19:00)	
DAY-2: 18 AUGUST 2025, MONDAY		
06:30 - 08:00	Speaker's Breakfast Venue: Hall A-1592	
08:00 - 08:30	Opening Presentation & Words from sponsors	
08:30 - 09:30	Keynote 1: Strategies and tactics to manage the consequences of rock mass failure in underground mines <i>Veronique Falmagne, Ph.D., ing., Corporate Director Rock Engineering & Ground Control, Agnico Eagle Mines</i> Chair: Kamran Esmaeili, Ph.D., University of Toronto	
09:30 - 10:00	Coffee break	
10:00 - 11:00	Technical Sessions A	
DAY-2; TECHNICAL SESSION - A1 (TS-A1)		
Theme-1: Intact Rock Characterization and Laboratory Testing		
Chair: Hani Mitri, Ph.D., McGill University		
Date: 2025/08/18		Time: 10:00 - 11:00
Venue: Hall A1600		
10:00 - 10:15	1	Time-Dependent Behavior of Rocks: Testing, Deformation Mechanisms and Constitutive Modelling <i>Michel Aubertin, Jonathan Aubertin</i>
10:15 - 10:30	32	Development of a Methodology to Measure Electromagnetic Wave Velocity for High-Accuracy Time-Depth Conversion in Mineral Exploration <i>Leila Abbasian, Alison Leitch, Abdelsalam Abugharara, Stephen Butt</i>
10:30 - 10:45	38	Defining Failure Envelope of a Brittle Rock Using A Novel Multi-Stage Triaxial Compressive Test Method <i>Yagiz Alp Tastekin, Abbas Taheri, Christian Obregon</i>
10:45 - 11:00	106	CERCHAR Abrasiveness Index Test Limitations and Improvements Under Benchtop and In-situ Conditions <i>Pushpinder Rana, John Molgaard, Stephen Butt</i>

DAY-2; TECHNICAL SESSION - A2 (TS-A2)
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Theme-3: Numerical Modelling in Rock Mechanics			
Chair: Athena Pirayehgar, WSP			
Date: 2025/08/18		Time: 10:00 - 11:00	Venue: Hall A1300
10:00 - 10:15	129	Enhancing Rock Block Volume Estimation in Fractured Rock Masses: Development and Application of a Persistence Factor <i>Mahsa Mahdavi, Ali Saeidi, Jean Francois Noel, Carl-Oscar Nilsson</i>	
10:15 - 10:30	141	Stability Analysis and Support Design for the Powerhouse Redevelopment Project <i>Reza Varkani, Gordon Li</i>	
10:30 - 10:45	41	GPU-Accelerated FEM and FDEM Simulations with Application to Laboratory Tests,Rock Slope Stability and Tunnel Excavation <i>Fatima Amiri, Andrea Lisjak, Johnson Ha, Bryan Tatone, Omid Mahabadi</i>	
10:45 - 11:00	54	Thermo-Hydro-Mechanical Analysis of Fault Damage Zones for Deep Geothermal Systems: Implications for Reservoir Performance and Seismic Stability <i>Saeed Vadee, Biao Li</i>	
DAY-2; TECHNICAL SESSION - A3 (TS-A3)			
Theme-4: Mining Geomechanics			
Chair: Kathy Kalenchuk, Ph.D., RockEng			
Date: 2025/08/18		Time: 10:00 - 11:00	Venue: Hall A1302
10:00 - 10:15	24	A Workflow to Assess Potential for Crown Pillar Instability when Mining through Existing Underground Workings <i>Erika Schmidt, Catherine Banton</i>	
10:15 - 10:30	34	Stress Distribution and Measurement Around Underground Openings in Potash <i>Latham Hamlin, Garrett Snell, Douglas Milne, Chris Hawkes, David Elwood</i>	
10:30 - 10:45	42	Correcting for Creep During Stress Change Measurement in Underground Potash Mining <i>Garrett Snell, Makayla Jacksteit, Latham Hamlin, Chris Hawkes, Douglas Milne, Lingen Jiang, Craig Hamilton</i>	
10:45 - 11:00	46	Laboratory Investigation of the Effect of Encapsulation on Dynamic Performance of D-Bolts <i>Saeed Naseri, Neil Judge</i>	
DAY-2; TECHNICAL SESSION - A4 (TS-A4)			
Theme-5: Innovations in Rock Engineering and Rock Mechanics Practices			
Chair: Arash Khosravi, Ph.D., GHD			
Date: 2025/08/18		Time: 10:00 - 11:00	Venue: Hall A1424
10:00 - 10:15	9	A Technical Approach for Designing Draped Mesh Systems in Challenging Rock Cuts <i>Mehdi Amini, Paul Wilson</i>	
10:15 - 10:30	65	Advancing Structural Integrity Assessments of Mine Side Walls Using Machine Learning to Analyze Impact Acoustics <i>Jesse Flaman, Travis Wiens</i>	
10:30 - 10:45	112	The Role of Microcracking in the Tensile Failure of Cement Grout: A Comparative Study of Direct Tension and Brazilian Tests <i>Ghasem Shams, Patrice Rivard</i>	
10:45 - 11:00	122	Integration of LiDAR, DOS, ML and AI Technology to Characterize Rock Masses <i>Nicholas Vlachopoulos, Alireza Yaseri, Ioannis Farmakis</i>	
11:00 - 11:30		Coffee break in Exhibit Hall	



11:30 - 12:30		Technical Sessions B
DAY-2; TECHNICAL SESSION - B1 (TS-B1)		
Theme-1: Intact Rock Characterization and Laboratory Testing		
Chair: Michel Aubertin, Ph.D., Polytechnique Montréal		
Date: 2025/08/18	Time: 11:30 - 12:30	Venue: Hall A-1600
11:30 - 11:45	39	Challenges and Unique Characteristics Associated with Conventional Laboratory Testing of the Georgian Bay Formation <i>Bryan Tatone, Johnson Ha, Aly Abdelaziz</i>
11:45 - 12:00	128	Impact of Block Geometry on the Rock Mass Erosion: A Laboratory-Scale Model Study <i>Vineeth Reddy Karnati, Ali Saeidi, Alain Rouleau, Marco Quirion</i>
12:00 - 12:15	101	Use of High-Resolution Mineralogical Characterization to Inform the Geomechanical Behaviour of Veined Rock <i>Shakeba Noori, Cassady Harraden, Erik Eberhardt</i>
12:15 - 12:30	113	Modelling Rock Anchor Uplift Failure: Design of Centimetre-Scale Physical Tests Using Numerical Simulations <i>Jorge Andrés Yepes García, Ghasem Shams, Patrice Rivard</i>
DAY-2; TECHNICAL SESSION - B2 (TS-B2)		
Theme-2: Rock Mass Characterization and Scale Effect Evaluation		
Chair: Hugo Fisette, HATCH		
Date: 2025/08/18	Time: 11:30 - 12:30	Venue: Hall A1300
11:30 - 11:45	2	Rock Mass Characterization using Photogrammetric Mapping and Fracture Network Modeling <i>Tuncer Akilli, Ming Cai</i>
11:45 - 12:00	16	Consideration for the Replacement of the Rock Quality Designation (RQD) with Volumetric Fraction Count (VFC) within Rock Mass Classification Systems <i>Charlie Harrison</i>
12:00 - 12:15	22	Système de Gestion d'Actifs pour les Coupes de Roc du Réseau Routier du Ministère des Transports et de la Mobilité durable du Québec <i>François Bossé, Catherine Cloutier, Marie-Hélène Fillion</i>
12:15 - 12:30	60	The Current State of Rock Mass Classification: A Review of Empirical Techniques and Machine Learning Techniques <i>Botlhe Basimane Pule, Tumelo Kgetse Dintwe, Jerome Anabannye Yendaw</i>
DAY-2; TECHNICAL SESSION - B3 (TS-B3)		
Theme-4: Mining Geomechanics		
Chair: Vernonique Falmagne, Ph.D., Agnico Eagle Mines		
Date: 2025/08/18	Time: 11:30 - 12:30	Venue: Hall A1302
11:30 - 11:45	69	Deformation Prediction of an Instability Area in Open Pit Slope Using Machine Learning Algorithms and Multi-Sources Field Data <i>Wenbo Zheng, Emmanuel Afful Oteng</i>
11:45 - 12:00	91	Void Monitoring in Mount Charlotte Underground Mine <i>Rashid Geranmayeh, Rowland Whiting, Amos Mapuranga, Ehsan Azad</i>
12:00 - 12:15	95	Modifying the Rockfall Hazard Rating system for mine walls, roads and rail corridors <i>Carl Gravel, Marc Rougier, Mathieu Rossignol</i>
12:15 - 12:30		



DAY-2; TECHNICAL SESSION - B4 (TS-B4)		
Theme-5: Innovations in Rock Engineering and Rock Mechanics Practices		
Chair: Jean-François Noël, Ph.D., Hydro-Québec		
Date: 2025/08/18		Time: 11:30 - 12:30
Venue: Hall A1424		
11:30 - 11:45	5	Incorporating Sensitivity Analysis Results into Estimated Factor of Safety / Strength Reduction Factors <i>Ray Yost, Meg Sharp</i> , Adam Jackson
11:45 - 12:00	7	Probability of Failure vs. Probability of Collapse <i>Meg Sharp, Ray Yost</i>
12:00 - 12:15	105	Understanding the Rock Mass – Development of deposit-specific Machine Learning Techniques for Geotechnical Domainining <i>Andrew LeRiche, David Bonneau, Samson Tims, Ed Saunders</i>
12:15 - 12:30	133	Automated Structural Mapping by Filtering Out Block Edges Using Machine Learning Classifiers <i>Niloufar Sadeghi, Jonathan Aubertin</i>
12:30 - 13:45		Lunch
13:45 - 15:15		Technical Sessions C
DAY-2; TECHNICAL SESSION - C1 (TS-C1)		
Theme-1: Intact Rock Characterization and Laboratory Testing		
Chair: Ghasem Shams, Ph.D., HATCH		
Date: 2025/08/18		Time: 13:45 - 15:15
Venue: Hall A-1600		
13:45 - 14:00	28	Refining Leeb Hardness Testing for Rock Strength Correlation: Analysis of Influential Factors and Laboratory Data <i>Shawn Hegger, Ashkan Shirzadi, Kayla Seguin, Andrew Corkum</i>
14:00 - 14:15	130	Influence of Rock Mass Joint Openings and Hydraulic Parameters of Dam Spillways on Rock Mass Erosion Under Specific Conditions <i>Danial Fakhri, Ali Saeidi, Marco Quirion</i>
14:15 - 14:30	49	Propriétés Géomécaniques du Roc sur l'Île de Montréal <i>Antoine Perrot, Vincent Duplessis-Labrecque</i>
14:30 - 14:45	79	Directional Dependence of Shear Properties in Anisotropic Rock Formations: Implications for Engineering Design <i>Rashid Geranmayeh, Abdolhadi Ghazvinian</i>
14:45 - 15:00	108	Parametric Studies of CSDS Model and Representative Complete Shear Stress Curves for Different Rock Joint Types <i>Akram Deiminia, Jonathan Aubertin</i>
15:00 - 15:15		



DAY-2; TECHNICAL SESSION - C2 (TS-C2)		
Theme-3: Numerical Modelling in Rock Mechanics		
Chair: Timothy Packulak, Ph.D., KGS Group		
Date: 2025/08/18	Time: 13:45 - 15:15	Venue: Hall A1300
13:45 - 14:00	8	Incorporating In-Situ Block Size Distribution in the Prediction of Blast-Induced Rock Fragmentation <i>Eugenia Mensah, Marie-Hélène Fillion, Omid Karimi</i>
14:00 - 14:15	40	Investigation of Borehole Drilling Lengths for 3D In-Situ Stress Measurement Using the D3 Method <i>Saeed Khosravi, Cui Lin, Steve Zou</i>
14:15 - 14:30	44	Using the Finite Discrete Element Method (FDEM) to Correlate Microfracturing to Acoustic Emissions in Anisotropic Rock <i>Ethan Malicki, Jennifer J Day, Mark Diederichs</i>
14:30 - 14:45	55	Identifying Progressive and Cascading Pillar Failure in Underground Mines based on Seismic Data and Numerical Analyses <i>Luis Mejia, Kathy Kalenchuk, Lindsay Moreau-Verlaan, Neda Dadashzadeh</i>
14:45 - 15:00	87	The Stability Graph Method – A Basic Numerical Approach <i>Shahé Shnorhokian, Zoé Rosa</i>
15:00 - 15:15	98	Optimizing Connectivity in Discrete Fracture Network Generation for Tunnel Permeability Analysis <i>Lucas Bellini Machado, Marcos Massao Futai, Pedro Cacciari, Gabriel Galdino de Magalhaes, Felipe Alves Rosa</i>
DAY-2; TECHNICAL SESSION - C3 (TS-C3)		
Theme-4: Mining Geomechanics		
Chair: Eliane Cabot, BBA Consultants		
Date: 2025/08/18	Time: 13:45 - 15:15	Venue: Hall A1302
13:45 - 14:00	33	Salt Sill Pillar Behavior Monitoring at Nutrien Lanigan Potash Mine <i>Lingen Jiang, James Isbister</i>
14:00 - 14:15	37	Effect of Mine Opening Geometry and Backfilling on the Time-Dependent Response in Creeping Rock <i>Abtin Jahanbakhshzadeh, Jonathan Aubertin, Michel Aubertin</i>
14:15 - 14:30	63	Predicting Spatial Variation in Ore Hardness Using Integrated Artificial Intelligence and Remotely Sensed Hyperspectral Data: A Case Study of a Canadian Open-Pit Mine <i>Saleh Ghadernejad, Kamran Esmaeili</i>
14:30 - 14:45	75	A Brief Review of Distributed Acoustic Sensing for Geomechanical Characterization in Geologic CO2 Storage <i>Chengkai Fan, Qi Li</i>
14:45 - 15:00	103	Design of a Laboratory Scale Physical Model to Investigate and Validate Attrition Models Applied to Gravity Flow in Block Cave Mines <i>Robertus Suparna, Erik Eberhardt</i>
15:00 - 15:15	100	Understanding Preferential Water Flow and Its Contribution to Inrush Hazard Susceptibility in Block Cave Mining: An Integrated Modelling Approach <i>Arezo Ibrahimi, Roger Beckie, Erik Eberhardt</i>



DAY-2; TECHNICAL SESSION - C4 (TS-C4)		
Theme-5: Innovations in Rock Engineering and Rock Mechanics Practices		
Chair: Dany Brault, GHD		
Date: 2025/08/18	Time: 13:45 - 15:15	Venue: Hall A1424
13:45 - 14:00	31	Strain-Based Stress Initialization: A Leading Best Practice in the Application of Numerical Models for Geomechanics <i>Kathy Kalenchuk, Colin Hume , Neda Dadashzadeh</i>
14:00 - 14:15	52	Predicting Excavation-Induced Damage Depth at the Bedretto Tunnel: A Methodological Comparison <i>Yousef Golabchi, Olivia Alsop, Matthew Perras, Usman Khan, Rodrigo Alcaino Olivares, Navid Bahrani, Pooya Hamdi, Georgii Grechko, Michal Kruszewski, J. Dickmann, Florian Amann, Peter Achtziger-Zupančič, Chrysothemis Paraskevopoulou, Stefan Wiemer</i>
14:15 - 14:30	73	A Comparative Study of Rock Mass Characterization Across Geological Formations: Insights from Montréal Island <i>Arash Khosravi, Nooshin falaknaz</i>
14:30 - 14:45	99	Feature Importance-Driven Multi-Scale Geometric Analysis for Automated Geomechanical Classification in Rock Slope Monitoring: A Case Study from the Francon Quarry, Montreal <i>Mohammad Niknezhad Golafzani, Jonathan Aubertin , Julien Beaulieu</i>
14:45 - 15:00	102	Evaluating the Potential of Microwave Treatment to Enhance Continuous Mining Excavation in Different Rock Types <i>Adel Ahmadihosseini, Ferri Hassani, Agus Sasmito</i>
15:00 - 15:15	145	Bibliometric Analysis of Rock Mechanics Research in Underground Hydrogen Storage: Trends, Collaborations, and Future Directions <i>Wenwen Cui, Shunde Yin, Xiaoqiang Dong</i>
15:15 - 15:30		Transition Time
15:30 - 16:30		Poster Session (Technical Session D)
16:30 - 22:30		Special reception evening at the TIME. Terrace opens at 16:30 with bar service. Main doors open at 18:00 with food service.
DAY-3: 19 AUGUST 2025, TUESDAY		
06:30 - 08:00		Speaker's Breakfast Venue: Hall A-1592
06:30 - 08:00		Women in Rock Engineering Breakfast Venue: Hall A-1540
08:00 - 08:30		Logistics and words from sponsors
08:30 - 09:30		Keynote 2: Anisotropic Rock Mechanics - The State of the Art <i>Ki-Bok Min, Ph.D., Professor, geomechanics, Department of Energy Resources Engineering (Head), College of Engineering, Seoul National University</i> <i>Chair: Martin Grenon, Ph.D., Université Laval</i>
09:30 - 10:00		Coffee break in Exhibit Hall



10:00 - 11:00		Technical Sessions E
DAY-3; TECHNICAL SESSION - E1 (TS-E1)		
Theme-3: Numerical Modelling in Rock Mechanics		
Chair: Ki-Bok Min, Ph.D., College of Engineering, Seoul National University		
Date: 2025/08/19	Time: 10:00 - 11:00	
		Venue: Hall A1300
10:00 - 10:15	57	Insights to Mineral Dissolution and Cavern Shape Complexity from Advanced SCI-FIE Modeling <i>Li Li, Robert Gracie, Maurice Dusseault</i>
10:15 - 10:30	72	Numerical Analysis of Tunnel Wall Irregularity Effects on V-Notch Formation in Highly Stressed Hard Rocks <i>Rasoul Sheikhmali, Omid Karimi, Ming Cai</i>
10:30 - 10:45	82	Comparison of Numerical Modeling Methods for Operational Rock Mechanics <i>Nikolas Dmitrovic</i>
10:45 - 11:00	86	Volumetric Analysis of Destress Slotting in a Scandinavian Mine <i>Shahé Shnorhokian, Samar Ahmed</i>
DAY-3; TECHNICAL SESSION - E2 (TS-E2)		
Theme-2: Rock Mass Characterization and Scale Effect Evaluation		
Chair: Pedro Cacciari, Ph.D., Polytechnique Montréal		
Date: 2025/08/19	Time: 10:00 - 11:00	
		Venue: Hall A1302
10:00 - 10:15	13	How Important is Mineral Stiffness Heterogeneity in Grain-Based Modelling of Rock? <i>Emelie Gagnon, Jennifer J Day</i>
10:15 - 10:30	14	Challenges in Characterizing Weak Rocks for Open Pit Slopes <i>Luiz Castro</i>
10:30 - 10:45	35	New Insights into the Scale Dependency of Shear Behaviour in Rock Joints During Direct Shear Testing <i>Sajjad Bahadorifard, Ghasem Shams, Patrice Rivard, Omid Moradian</i>
10:45 - 11:00	50	La Méthode Appropriée pour Vérifier les Parois Rocheuses du Tunnel par Cartographie lors de son Élargissement <i>Saeed Kharaghani, Antoine Perrot, Lydia Halli</i>
DAY-3; TECHNICAL SESSION - E3 (TS-E3)		
Theme-4: Mining Geomechanics		
Chair: Gabriel Walton, Ph.D., Colorado School of Mines		
Date: 2025/08/19	Time: 10:00 - 11:00	
		Venue: Hall A1424
10:00 - 10:15	90	Investigation of Geohazard Susceptibility on Steep Slopes Influenced by Mining-Induced Subsidence Above a Deep Caving Operation <i>Michael Stephen, Erik Eberhardt, Arief Wijayanto</i>
10:15 - 10:30	93	Application of Single-Hole Blastability Indexing method for Characterizing Geological Variability in Blocky Rock Masses <i>Masoud Sedghi, Jonathan Aubertin</i>
10:30 - 10:45	137	Impact of Open-Pit Expansion on an Existing Tunnel in a Chilean Copper Mine <i>Cristian Segura, Alejandra Villouta, Carlos Muñoz, Juan Pablo Dávila, Jorge Vega</i>
10:45 - 11:00	139	Crown Pillar Stability Assessment and Remediation Strategies <i>Athena Pirayehgar, José Carvalho, Paul Palmer, Jérémie Arsenault</i>



DAY-3; TECHNICAL SESSION - E4 (TS-E4)		
Theme-5: Innovations in Rock Engineering and Rock Mechanics Practices		
Chair: Duncan Wyllie, Ph.D., Wyllie & Norrish Rock Engineers Ltd.		
Date: 2025/08/19		Time: 10:00 - 11:00
Venue: Hall A1600		
10:00 - 10:15	15	Stabilazing Cliffs in the Niagara Gorge-Historic Perspective 1969 - 2024 Boro Lukajic, Milica Milojevic
10:15 - 10:30	20	A Framework for Development of Quality Ranking Protocols for In-Situ Stress Data Asieh Hamidi, John P. Harrison, Hossein A. Kasani, Abel Sánchez Juncal, Diego Mas Ivars
10:30 - 10:45	25	Applying Handheld Laser Scanners for Joint Properties Estimation and Rock Mass Characterization Sergio Sepúlveda, Sina Fatolahzadeh, Mariya Shintassova, Jaspreet Singh
10:45 - 11:00	47	Methodology for Constructing Synthetic Rock Mass Samples for Numerical Validation in Coupled Hydromechanical Water Flow Models Lorenzo Zafrilla Nieto, Pedro Cacciari, Li Li
11:00 - 11:30		Coffee break in Exhibit Hall
11:30 - 12:30		Technical Sessions F
DAY-3; TECHNICAL SESSION - F1 (TS-F1)		
Theme-1: Intact Rock Characterization and Laboratory Testing		
Chair: Ali Saeidi, Ph.D., Université de Québec à Chicoutimi		
Date: 2025/08/19		Time: 11:30 - 12:30
Venue: Hall A1300		
11:30 - 11:45	11	Characterizing the Rock Mechanics Properties of the Crystalline Rocks for a Future Deep Geological Repository in the Revell Batholith in Northwestern Ontario Jun Wang, Hossein A. Kasani
11:45 - 12:00	17	Laboratory Testing of Rocks in the Montreal Region from a Ground Support Design Perspective Hugo Fisette
12:00 - 12:15	59	Site Characterization – From Intact Rock to Shaft Stability Sia Taghipoor, Mateusz Jakubowski
12:15 - 12:30	68	Experimental Characterization of Time-Dependent Behavior of Tight Laminated Rock Formations from Canadian Shale Gas Plays Huan Yu, Wenbo Zheng
DAY-3; TECHNICAL SESSION - F2 (TS-F2)		
Theme-3: Numerical Modelling in Rock Mechanics		
Chair: Bryan Tatone, Ph.D., Geomechanica Inc.		
Date: 2025/08/19		Time: 11:30 - 12:30
Venue: Hall A1302		
11:30 - 11:45	10	Numerical modelling of a heterogenous rock mass: Unusual rock structure and its impact on new cut stability Brad Panton, Paul Schlottfeldt, Gavin Black, Lucy Myrol
11:45 - 12:00	89	Linear Elastic and Elasto-Plastic Modelling for Dilution Estimation of an Extended Stope in a Case Study Mine Adrian Ivan Santos Chauca, Shahé Shnorhokian, Mustafa Kumral
12:00 - 12:15	114	Analyse de Stabilité du Pied d'un Talus de Mine en Utilisant un Massif Rocheux Synthétique : Une Étude de Cas Haridera Rakotondrafara, Gabriel Galdino de Magalhaes, Pedro Cacciari
12:15 - 12:30	127	Mind the Undulation: The risk of Simplifying Fracture Geometries in Synthetic Rock Mass Models Emmanuela Ambah, Davide Elmo



DAY-3; TECHNICAL SESSION - F3 (TS-F3)		
Theme-4: Mining Geomechanics		
Chair: Abtin Jahanbakhshzadeh, Ph.D., Polytechnique Montréal		
Date: 2025/08/19		Time: 11:30 - 12:30
Venue: Hall A1600		
11:30 - 11:45	58	Structural Data Collections as Part of Eleonore Crown Pillar Geotechnical Assessment <i>Eliane Cabot, Amanda Conley, Élisabeth Côté</i>
11:45 - 12:00	135	Adapting Open-Pit Slope Design to Unexpected Rock Mass Condition (A Case Study) <i>Joseph Mukendi Kabuya, Abbas Kamalibandpe, Vincent Riendeau, Carl Gravel</i>
12:00 - 12:15	144	Development of a Preventive Ground Support Strategy Based on Pillar Deformation Behavior at the Production Level of the Chuquicamata Underground Mine <i>S. Lopez N., Juan Pablo Alegria Reyes, Carolina Saavedra Acuña</i>
12:15 - 12:30		
DAY-3; TECHNICAL SESSION - F4 (TS-F4)		
Theme-5: Innovations in Rock Engineering and Rock Mechanics Practices		
Chair: Boro Lukajic, Boro Lukajic and Associates Inc.		
Date: 2025/08/19		Time: 11:30 - 12:30
Venue: Hall A1424		
11:30 - 11:45	126	Characterizing Joint Roughness Coefficient Using Artificial Intelligence <i>Emmanuela Ambah, Davide Elmo</i>
11:45 - 12:00	142	The Future of Block Cave Management: Predictive Analysis via Distributed Fiber Sensing <i>Jon Furlong, Zara Anderson, David Hill</i>
12:00 - 12:15	125	Impact of Low Temperature, Saturation, and Freeze-Thaw Cycles on the Mechanical and Physical Properties of Tuff and Sandstone Rocks <i>Rami Moghrabi, Akos Torok, Balázs Vásárhelyi</i>
12:15 - 12:30		
12:30 - 13:30	Lunch	
13:30 - 14:30	Keynote 3: Risk Management for Geotechnical Engineering <i>Duncan C. Wyllie, Ph.D., P.Eng., Wyllie & Norrish Rock Engineers Ltd.</i> Chair: Marco Quirion, Ph.D., Hydro-Québec	
14:30 - 15:00	Coffee break in Exhibit Hall	
15:00 - 16:30	Technical Sessions G	
DAY-3; TECHNICAL SESSION - G1 (TS-G1)		
Theme-1: Intact Rock Characterization and Laboratory Testing		
Theme-2: Rock Mass Characterization and Scale Effect Evaluation		
Chair: Jennifer Day, Ph.D., Queen's University		
Date: 2025/08/19		Time: 15:00 - 16:30
Venue: Hall A1600		
15:00 - 15:15	18	The Evolution of Structural Domains from Scoping Study to Operations for the Meadowbank Mine - Amaruq Site <i>Madison Raddatz, Benjamin Peacock, Robert Mercer, Christian Tremblay</i>
15:15 -15:30	62	A Quality Assurance & Quality Control (QAQC) Approach for Geotechnical Core Logging Data Validation at EVR Coal Mine Sites <i>Christian Obregon, Ezekiel Camacho, Andrew Bidwell</i>
15:30 - 15:45	71	Insights on Single- and Multi-Stage Direct Shear Tests of Open Joints: A Case Study from the Revel Batholith, Northwest Ontario <i>Hossein Kasani, Jun Wang</i>
15:45 - 16:00	78	An Insight into Uncertainty and Variability of Rock Mass Characterisation <i>Rashid Geranmayeh, Daniel Cumming-Potvin</i>
16:00 - 16:15	140	Does Size Effect Matter? <i>Robert Bewick, Davide Elmo</i>
16:15 - 16:30		
16:30 - 18:00	CARMA Forum on the future of the Association	



18:00 - 19:00	FREE TIME
19:00 - 22:30	Volunteers Dinner (Upon Invitation Only)