PODIUM PRESENTATIONS

Monday (June 24) Session #1 8:30 am - 10:00 am	Civil Track (Hill Hall 202)	Mining Track (Green Ctr - Metals Hall)	Petroleum Unconventional Track (Green Ctr - Bunker Aud.)	Petroleum Conventional Track (Green Ctr - Petro. Hall)	Geothermal Track (CTLM 102)
	Numerical Modelling in Geomechanics: Civil Engineering Applications	**Experimental Mining Rock Mechanics**	**Hydraulic Fracturing I - Theoretical And Numerical Modeling**	**Drilling & Completion: Openhole**	**Geothermal Reservoir Design and Testing**
8:30 am - 8:45 am	620 - Enhancement of an FDEM-based geomechanical simulation software with hybrid FEM-FDEM and elasto-plastic modeling capabilities: Application to slope stability analysis Lisjak, Andrea*; He, LiQiang; Ha, Johnson; Tatone, Bryan; Mahabadi, Omid	1046 - Crack Initiation (CI) Thresholds from Acoustic Emission and Stress-Strain Data: A Comparison of Values Measured for Rocks from Montana and Idaho Humphreys, Mary*; Link, Curtis; Berry, Steve; MacLaughlin, Mary M	256 - Analysis of Shear Slip Ahead of Hydraulic Fracture along A Frictional Interface not aligned with Principal Stresses and Conditions for Secondary Branching Weng, Xiaowei*	426 - Transient Effects of Time-Dependent Drilling Fluids on Wellbore Stability Ma, Yue; Dokhani, Vahid*; Miao, Hailong; Geng, Tie; Shi, Zhaorui	123 - Simulating coupled THM problem and wellbore integrity analyses with two-phase fluid flow in naturally fractured reservoirs Wang, Yarlong Y*
8:45 am - 9:00 am	585 - Investigation of a collapsed deep-seated gravitational slope deformation in Western Carpathian Mts., Slovakia Tolocka, Andrius; Mortazavi, Ali*; Kapustova, Veronika	617 - Characterization and monitoring of damage evolution in brittle rock during primary, secondary, and tertiary creep phases Imani Tilenoei, Mehrdad*; Hedayat, Reza; Walton, Gabriel	1112 - Modeling Near-Wellbore Hydraulic Fracture Behaviors Under Combined Impacts of Wellbore Perforation and Natural Fractures Fu, Wei*; Damjanac, Branko; Radakovic-Guzina, Zorica; Finnila, Aleta; Podgorney, Rob; McLennan, John	283 - Assessment of thermal effects on the formation breakdown gradient in APB mitigation scenarios Souza, Bruno*; Souza, Charlton; Fontoura, Sergio	235 - An Assessment of Geomechanical Considerations in Thermal Energy Storage Systems Using 3D Coupled Thermo-Hydro-Mechanical Models Mutlu, Uno U*; Ghassemi, Ahmad; Boitnott, Greg

9:00 am - 9:15 am	399 - Numerical Simulation of Elastic Wavefield Evolution in heterogeneous Fractured Media based on a Combined Displacement Discontinuity-Discrete Fracture Network Model	762 - Mechanical Responses and Dynamic Seepage Evolution Laws of Rock Mass Containing Inclined Rough Fracture Under Three-Dimensional Stress	454 - Challenges and Uniqueness of a Dual-Injection Fracture Model	658 - Investigation of failure mode and permeability evolution of Inclined heterolithic Strata using coupled Discrete Element Method-Computational Fluid Dynamics model	31 - Modeling a Deep Coaxial Closed-Loop Vacuum Insulated Tubing (VIT) Completion in a Geothermal Research Test Well Using FEFLOW
	Wang, Shuaifeng*; Zhang, Zixin; Huang, Xin; Lei, Qinghua	Tang, Jinzhou*; Zhao, Guangming; Chang, JuCai; Yin, Zhiqiang; Duan, Minke; Wang, Tuo	Kresse, Olga*; Hobbs, Brandon; Pei, Yanli	Yin, Xuehan; Zhang, Bo*	Chen, Guizhong*; Wright, Charles L; liu , Jintao; Gomez , Chris; Garcia , Alexis
9:15 am - 9:30 am	615 - A unified computational framework for modelling rock failure evolution: From progressive degradation to catastrophic rupture and avalanche	1092 - Post-Peak Multi-Stage Triaxial Testing of Miniature Rock Mass Samples	428 - The Sunset Solution: closure on leaking proppant	724 - Research and Application of ROP Enhancing Technology with Axial-torsional Coupled Percussion in Tight Shale Drilling	979 - Unsupervised Machine Learning for Delineating Stratigraphy in Subsurface Reservoirs for the Utah FORGE Geothermal Project
	Wang, Liang*; Lei, Qinghua	Cylwik, Scott D*; Childs, Daniel; Mahoney, Dan; Plange, Kojo; Grubb, Chris	Peirce, Anthony P*; Abbas, Safdar; Detournay, Emmanuel	Sun, Zhaowei; Wu, Xiaoguang*; Wang, Zikang Wang; Huang, Zhongwei; Mu, Zongjie; Wang, Xiangyang; Yury, Popov	Mustafa, Ayyaz*; Kelley, Mark; Lu, Guanyi; Bunger, Andrew
9:30 am - 9:45 am	846 - Growth parameter conditioning of genetic discrete fracture networks to trace length distribution data	783 - Dynamic stress wave behaviors across single fluid-filled rock fractures	641 - Poroelastic Effects on the Interpretation of Diagnostic Fracture Injection Tests	799 - A Statistical approach to estimate the drilling mud window based on field data and ten failure criteria in depleted reservoirs - new modified failure criterion	238 - FDEM modeling of PDC cutter – rock interactions for geothermal drilling applications
	Kim, Jineon*; Choi, Jiwon; Leem, Junsu; Song, Jae-Joon	Yang, Hui; Duan, Huan-Feng; Zhao, Qi*; Zhu, Jianbo	Du, Jun*; Li, Boshen; Huang, Tianxiang; Xu, Guanshui	Alsubaih, Ahmed A*; Sepehrnoori, Kamy; Lopez, Alberto ; Espinoza, D. Nicolas; Allawi, Raed ; Swadi, Hyfaa	Heilman, Erin K*; Euser, Bryan; Frash, Luke; Meng, Meng; Li, Wenfeng; Lei, Zhou; Rougier, Esteban

9:45 am - 10 am	661 - Investigation on the spatial variation in fracture orientation and its impact on hydraulic behavior of rock mass Choi, Jiwon*; Kim, Jineon; Song, Jae-Joon	621 - 3DEC Modelling Exploration of Residual Stress Mechanisms Trzop, Max*; Corkum, Andrew G	566 - Impact of cold fluid injection on hydraulic fracture propagation Rueda Cordero, Julio Alberto*; Mejia Sanchez, Eleazar Cristian; Roehl, Deane; Rossi, Diogo; Sousa, Emilio; Ferreira, Francisco H; Chaves, Ricardo; Henriques, F	27 - Reservoir Compaction Damage Evaluation in Hydraulically Fractured Oil Wells Incorporating Geomechanics Fernandes, Fernando B*; Braga, Arthur Martins; Duarte, Matheus C; Gildin, Eduardo	561 - Tool Development and Field Test of the Stress Measurement Method with Dual Bit Coring Applicable to Geothermal Fields Ito, Takatoshi*; Kaneko, Kenji; Sasaki, Manabu; Ogawa, Kouji; Yokoyama, Tatsuya; Funato, Akio; Tezuka, Kazuhiko
Monday (June 24) Session #2 11:00 am - 12:30 pm	**Civil Track (Hill Hall 202)**	**Mining Track (Green Ctr - Metals Hall)**	**Petroleum Unconventional Track (Green Ctr - Bunker Aud.)**	**Petroleum Conventional Track (Green Ctr - Petro. Hall)**	**Geothermal Track (CTLM 102)**
	Innovative Testing of Rocks and Rock-like Materials	**Case Studies in Mining Geomechanics - I**	**Hydraulic Fracturing II - Experimentation, simulation, and field results**	**Reservoir Geomechanics I - Analytical and Numerical modeling**	**Geothermal Reservoir Simulation**
11:00 am - 11:15 am	173 - Acoustic Emission Characteristics on the UCS of a Synthetic Rock Gautam, Pradeep Kumar*; Gutierrez, Marte	262 - Lessons learned from Recent Longwall Mine-by Cases with Uncemented Casings Zhang, Peter*; Su, Wen H; Tulu, Ihsan B; Kim, Bo Hyun	128 - Modeling Fracture Mechanics for 3D-Printed Porous Replicas using Phase-field Finite Element Almetwally, Ahmed G.*; Wheeler, Mary	694 - Pressure and stress prediction using seismic velocities, 3D geomechanical models and the full stress tensor: Mad Dog field, deepwater GoM Nikolinakou, Maria*; Flemings, Peter; Heidari, Mahdi; Wang, Xiaonan; Johri, Madhur	532 - A Microscale Analysis of Millimeter-wave Induced Vitrified Basalt for Use in Enhanced Geothermal Energy Systems Meltzer, Eve*; Stefaniuk, Damian; Einstein, Herbert

11:15 am - 11:30 am	115 - Mechanical and Hydraulic Characterization of 3D Printed Rock Analogues of Poorly Cemented Sandstone Cartagena Pérez, Daniel*; Rangriz Shokri, Alireza; Zambrano Narvaez, Gonzalo; Chalaturnyk, Rick	789 - Longwall-induced shale gas well casing deformations and stresses-critical effects of geologic and geometric parameters Su, Wen H*; Zhang, Peter	872 - Effect of shear thickening fluid on the hydraulic fracturing behavior Mukuhira, Yusuke*; Watanabe, Noriaki; Sueyoshi, Kazumasa; Takuma, Kohei; Zhang, Rongchang; Tomai, Takaaki; Arai, Yuko; Uno, Masaoki; Ito, Takatoshi; Goto , Ryota; Tongfei, Tian; Sokolovski, Vladimir; Naoi, Makoto	1144 - Influence of Injection Induced Fractures Along Horizontal Wells with ICDs during Subsurface Cold Fluid Injection Hu, Jinchuan*; Sharma, Mukul	836 - Solving coupled partial differential equations in porous/fractured geomaterials Cui, Xin*
11:30 am - 11:45 am	464 - Experimental Investigation of Damage Induced Creep in Organic Rich Shales: Insights from Beetaloo Shale, Australia Farooq, Umar*; Siddiqui, Mohammed Abdul Qadeer; Roshan, Hamid	20 - Investigating the energy balance of two mining methods set in a deep underground metal mine in the U.S. Kim, Bo Hyun*; Emery, Tyler M; Armatys, Mathieu	1158 - Optimizing Hydraulic Fracturing in the Paradox Formation: A Geomechanical Study of the Cane Creek Play Dvory, Noam*; McLennan, John; Mcpherson, Brian J.	272 - Evolution of the Reservoir Stress Path During Depletion and Re-inflation and Its Implications Seth, Puneet*; Mikulencak, Duane; Hofmann, Ronny; Dudley, John W	689 - Thermo-poro-elastic stress alteration around an EGS well due to cold fluid circulation Lu, Guanyi*; Lu, Yunxing; Kelley, Mark; Raziperchikolaee, Samin; Bunger, Andrew
11:45 am - 12:00 pm	571 - Mode I fracture behavior of metakaolin-based geopolymers made of mine tailings Asadizadeh, Mostafa*; Clements, Cara; Hedayat, Reza; Tunstall, Lori; Bolanos Sosa , Héctor Gelber ; Tupa, Néstor; Yanqui Morales, Isaac	1011 - Investigation into the rock mass response to pillar extraction in a hard rock tabular mine Moyo, Senzeni; Chikande, Tonderai; Zvarivadza, Tawanda*; Masethe, Richard RT; Adoko, Amoussou; Onifade, Moshood; Firoozi, Ali	1022 - Modelling the hydraulic injection fracture response in layered media for megablock experiments Magsipoc, Earl*; Grasselli, Giovanni	349 - Numerical study on mode I fracture characteristics of rock under confining pressure Luo, Senlin*; Zhang, Guangqing; Sun, Bin; Qiu, Renyi; Ling, Yansen	158 - Coupled thermal-mechanical behavior of slate and its anisotropic failure criterion Weng, Meng-Chia*; Lin, Shih-Shiang; Lee, Chih-Shan; Pham, Minh Triet; Le, Khanh Hoang

12:00 pm - 12:15 pm	437 - Development of a methodology for predicting the strength of intact bentonitic shale and gypsiferous siltstone using fragments and micro-indentation modulus testing Tohm, Calvin*; Lingwall, Bret N; Mitra, Rudrajit	760 - A Study of the Key Factors Associated with a Massive Pillar Failure in an Underground limestone Mine using Numerical Models Rashed, Gamal M*; Xue, Yuting; Evanek, Nicole	905 - Deciphering the tensile fracturing process using acoustic emission Wu, Shan*; Yang, Hui; Zhao, Qi; Su, BoYang; Cai, Guanglei	1126 - Study on Adsorption Characteristics of Micro-nano Proppants in Fractures and Related Numerical Simulation Lu, Cong*; Zhu, Qiuyan; Li, Ye; Luo, Cheng; Liu, Tianbo	1103 - Laboratory Evaluation of Natural Fracture and Hydraulic Fracture Interactions Using Digital Image Correlation Shandilaya, Shivesh; Roshankhah, Shahrzad*
12:15 pm - 12:30 pm	706 - Effect of Physical Properties on the Mechanical Behavior of Wyoming Siltstone under Uniaxial and Triaxial Compression Ng, Kam*; Khatri, Lokendra; Alomari, Esraa M	461 - New Afton Convergence Monitoring and Rehabilitation Planning in the B3 Footprint Owre, Sam*; Tilley, Eric; Kamp, corey	622 - A Play-Agnostic Thermo-Poro-Hydro-Mechanical Approximation for Hydraulic Fracture Initiation: Insights on Stress Distortions Between the Wellbore and a Perforation Tunnel Bouabdallah, Nassim*; Michael, Andreas	1030 - Búzios Field: Coupled Model to Face the Geomechanical Challenges of the Giant Carbonate Offshore Field Falcao, Flavia*; Cordovil, André Gustavo DP; Matias Maria, Ana Lucia Almm; Orrico, Gabriel; Fidalgo, Bruno; Parcero, Manuel; Alves, A.; Fernandes, livia	1162 - Coupled Thermo-Hydro-Mechanical Modeling in Geothermal Systems Huang, Yao*; Stansberry, Aidan Ripley; lipnikov, Konstantin; Moulton, J. David; Hyman, Jeffrey ; Sweeney, Matthew Ryan; Huang, Xiang; Lei, Zhou; Stauffer, Philip H

Monday (June 24) Showcase Sessions 2:30 pm - 4:00 pm	Canadian Mining Rock Mecahnics (CARMA) (Green Center - Friedhoff Hall)		Fiber Optic Sensing (Green Center - Bunker Auditorium)
2:30 pm - 2:52 pm	685 - Rock Engineering in Canadian Mining – Highlights, Challenges and Contributions		1218 - Fiber Optic Monitoring in Mines
	Véronique Falmagne Agnico Eagle Mines Ltd		Herb Wang, Dante Fratta University of Wisconsin, Madison
2:52 pm - 3:14 pm	1212 - Time for a change? The role of rockmass characterization and Discrete Fracture Networks on the assessment of caving rockmasses		1227 - Frontiers in fiber optic sensing beyond seismic data
	Jose L Carvalho WSP		Eileen Martin, Shihao Yuan, Tomas Snyder, Colorado School of Mines Daniel Homa, Zack Dejneka, Gary Pickrell, Virginia Tech Anbo Wang, Logan Theis, Sentek Instrument
3:14 pm - 3:36 pm	1234 - Rocks, Data, Algorithms: A roadmap for practical Machine Learning adoption in Rock Engineering		1111 - Seismic source characterization with distributed acoustic sensing
	Josephine Morgenroth University of British Columbia		Jiaxuan Li, Caltech Weiqiang Zhu, UC Berkeley Ettore Biondi, Zhongwen Zhan, Caltech
3:36 pm - 3:58 pm	1208 - Towards Mine Closure: Assessing the Long-Term Stability of Open Pit Mine Slopes		1221 - Scalable civil infrastructure monitoring through non-dedicated distributed acoustic sensing
	Erik Eberhardt The University of British Columbia		Jingxiao Liu, MIT, Siyuan Yuan, Biondo Biondi, Hae Young Noh, Stanford

Monday (June 24) Session #3 4:15 pm - 5:15 pm	Civil Track (Hill Hall 202)	Mining Track (Green Ctr - Metals Hall)	Petroleum Unconventional Track (Green Ctr - Bunker Aud.)	Storage & Sequestration Track (Green Ctr - Petro. Hall)	Geothermal Track (CTLM 102)
	Slope Stability, Dams, and Foundations	**Ground Support in Mining**	**Wellbore Mechanics**	**CO2 Utilization & Storage I**	**Seismicity and Geomechanics in Geothermal Environments**
4:15 pm - 4:30 pm	827 - Failure Mechanisms in Jointed Rock Slopes concerning the Dip Angle of Continuous Joints	1048 - Rockfall Barrier Testing in an Open Pit Mine: Comparing Empirical and Modeled Rockfall Dynamics	237 - Research on the evolution of fracture network considering anti-Frac hits of oilfield	772 - Assessing CO2 Leakage Risks and Fault Stability: A Coupled Flow and Geomechanics Simulation with Uncertainty Analysis of Fault Properties	502 - The influence of stress heterogeneity on hectometer scale hydraulic stimulation experiments
	Shandilaya, Shivesh; Roshankhah, Shahrzad*	McNabb, James C*; Meyer, Benjamin J; Potter, Julia; Warren, Sean N; Wagner, Dane	He, Xinru*; Zhu, Haiyan; Zhao, Peng; Chen, Shijie; He, Xiao; SHe, Chaoyi; Zheng, Majia; Wang, Dajiang; Li, Yuanzhao; Song, Junbei	Yoon, Sangcheol*; Prioul, Romain; Bailey, William ; Birchwood, Richard A; Rodriguez-herrera, Adrian; SteFani, Joe	Bröker, Kai*; Valley, Benoit; Gholizadeh Doonechaly, Nima ; Rosskopf, Martina; hertrich, Marian; Giardini, Domenico; Rinaldi, Antonio Pio; Clasen Repolles, Victor; Obermann, Anne; Ma, Xiaodong
4:30 pm - 4:45 pm	284 - Predicting scour in unlined rock spillways: a coupled analytical-numerical modeling approach	1170 - Probabilistic rockfall analysis in 3D in the Peña Colorada open pit (Colima Mexico)	196 - Wellbore Stability Analysis of Wells in Paradox Play in Southeastern Utah: Investigating the Impact of Salt Mobility	1080 - Elastic, viscoelastic, and permeability response of Kentucky Sandstone in the presence of scCO2	106 - Thermal Damage in Crystalline Rocks: The Role of heterogeneity in Mechanical Performance and Fracture Mechanisms
	Weidner, Luke M*; George, Michael; Clohan, Daley D	Yalan , Luis*; Samaniego, Antonio; Pozo, Raul; Jimenez, Eduardo ; Villa, Alberto	Xing, Pengju*; McCormack, Kevin L; Edelman, Eric C; list, Dave; Maxwell, Gregor; McLennan, John	Kamali Asl, Arash*; Kovscek, Anthony	Dang, Yike*; Yang, Zheng; Yang, Shangtong; Shang, Junlong

4:45 pm - 5:00 pm	503 - A Comparison of Tensile Testing Techniques and Predictive Correlations Using Simulated Rock lindenbach, Evan*; Foran, Jack; Bearce, Richard	941 - An Improved Time-Dependent Convergence Confinement Method for Estimation of Tunnel Support Loads in Squeezing Ground Conditions Arora, Ketan*; Gutierrez, Marte	1181 - Modelling transient wellbore behavior and near wellbore damage during carbon-dioxide injection in depleted gas reservoirs De Gennaro, Vincenzo*; Vasper, Adam	1102 - Permeability of serpentinized harzburgite and its implications on mineral carbon storage Asem, Pouyan*; Nguyen, Anh; Bazant, Zdenek P; Matter, Juerg; Labuz, Joseph F	788 - A Study of Rock Breakage under Extreme Submerged Confining Pressure: Can DTH Hammer Drilling Deliver? Gerbaud, Laurent ; Velmurugan, Naveen; Aising, Jorge; Chambres, Cedric; Naderi, Sadjad; Latham, John-Paul*; Xiang, Jiansheng; Yang, Xiaowei
5:00 pm - 5:15 pm	251 - Physical models of dry masonry retaining walls Alejano, Leandro R.*; Pérez-Rey, Ignacio; Muñiz-Menéndez, Mauro; Ding, Bing Dong	998 - Investigation on the setting time improvement of geopolymer cementitious material developed for pumpable roof supports Motameni, Sahand; Nikvar Hassani, Arash*; Zhang, lianYang	1089 - Enabling Geomechanical Insights from Drilling Data: Automated and Data-driven Proxy Mechanical Earth Modeling Jeong, Cheolkyun*; Lin, Sheng-Hau; Reyes, Allan; Sharma, Vipin; Wendt, Anke Simone	1107 - Carbon Mineralization in Mafic Formations: Fracture topology and hydro-chemo-mechanical coupling Muñoz Ibáñez, Andrea*; Santamarina, J. Carlos	774 - Modeling coupled hydro-mechanical processes during hydraulic stimulation at the Bedretto Underground Laboratory Clasen Repolles, Victor*; Jiang, DanYang; Rinaldi, Antonio Pio; Obermann, Anne; Wiemer, SteFan; Broeker, Kai; Ma, Xiaodong; Rosskopf, Martina; Gholizadeh, Nima; hertrich, Marian; Maurer, Hansruedi; Giardini, Domenico

Tuesday (June 25) Session #1 8:30 am - 10:00 am	Civil Track (Hill Hall 202)	Mining Track (Green Ctr - Metals Hall)	Petroleum Unconventional Track (Green Ctr - Bunker Aud.)	Storage & Sequestration Track (Green Ctr - Petro. Hall)	Interdisciplinary Track (CTLM 102)
	Tunnels and Underground Structures	**Case Studies in Mining Geomechanics - II**	**Hydraulic Fracturing III - Theoretical And Numerical Modeling**	**CO2 Utilization & Storage II**	**Novel Evaluation and Computational Techniques from Lab to Field**
8:30 am - 8:45 am	1090 - Estimation of tunnel project completion time by combining the CSM2020 Discrete Event Simulation model with Decision Aid in Tunneling (DAT)	578 - Assessing Pillar Stability In Underground Stone Mines: Impact of Geological Structures and Stress Variations In the Appalachian Region	55 - Production Enhancement by Microproppants: Concept Proof using Laboratory Experiment and Numerical Modeling	90 - Caprock stress contrast measurement, mechanism investigation and development of area in-situ stress characterization, Northern lights CCS, offshore Norway	934 - Modelling faults as fracture swarms to introduce multi-scale heterogeneity
	Khetwal, Anuradha*; Rostami, Jamal; Einstein, herbert	Elibol, Alim*; Tuncay, Deniz; Agioutantis, Zach	Han, Yanhui*; liang, Feng; Liu, Hui-hai	Thompson, Nicholas; Meneguolo, Renata; Rasmussen, Sten; Bautmans, Peter; Reitan, Håvard; Stroisz, Anna M; Cruz, Leonardo*	Libby, Simon*
8:45 am - 9:00 am	1007 - GEMINI, a novel software system to improve the penetration rate of a Tunnel Boring Machine	834 - Semi-Automated Geotechnical Workflow Utilizing UAV Data for Enhanced Hazard Assessment and Safety at Rio Tinto Kennecott	141 - Enhancing Cluster Efficiency by Modeling Swelling Diverter Particles in PKN-type Fractures	252 - THMC cement initial state of stress model and its numerical implementation for CO2 storage well integrity simulations	247 - Shear band development and permeability anisotropy evolution in fault gouge
	Aliguer, Ignasi*; Oliver, Isaura; de Santos, Cristian; Vara, F; Gomez, J	Fahle, Lukas*; Bakken, Karen; Telfer, Jeffrey; Williams, Chad	Luo, Bo*; Wong, George K	Joulin, Clement*; Le Blevec, Thomas; Kostorz, Wawrzyniec; Perez-Fernandez, Maria; Bourgeois, Frederic; Benmesbah, Mohamed Oukil	Li, Qiang; Chen, Jianye; Zhang, Chongyuan; Zhang, Fengshou; Gan, Quan*; Elsworth, Derek

9:00 am - 9:15 am	541 - SINTEF-TriPOD in underground design – a demonstration for two projects in Norway	851 - Mixed-Reality Geotechnical Cell Mapping for Slope Stability Assessment at Rio Tinto Bingham Canyon Mine	1118 - Optimization of Proppant Placements for Larger Propped Areas	507 - Assessing Caprock Integrity through Thermo-Hydro-Mechanical Modeling of CO2 in a Deformable Chalk Depleted Gas Reservoir	444 - Stress and load path dependent static and dynamic moduli and ultrasonic velocities in granite	
	Trinh, Nghia Quoc*; Grøv, Eivind	Akbulut, Nilufer*; Bakken, Karen; Fahle, Lukas; Williams, Chad; Onsel, Emre	Wang, Jiacheng*; Olson, Jon	Hosseinzadehsadati, Seyedbehzad*; Amour, Frederic; Abdollahi Chahardah Cheriki, Armin ; Hajiabadi, Mohammad Reza; Ferreira, Carlos A. S.; Nick, Hamid	Knippel, Erik P*; Wu, Chao-Sheng; Xiong, Qiquan; Villaquiran Vargas, Ana P; Hampton, Jesse	
9:15 am - 9:30 am	422 - Control Technology of High Prestress Excavation Compensatory Support in Tunnels through Fault Fracture Zones	807 - Reliability-based design (RBD) updating by sample reweighting for rock slope design	718 - Quantifying non-API Proppant Transport and Fracture Permeability as a Function of Solids Loading and Particle Shape	1183 - Machine Learning Application for CCUS Carbon Storage: Fracture Analysis and Mapping in The Illinois Basin	1195 - A Modeling Study of Injection-induced Rupture and Seismicity in Complex Faults	
	Sun, Jihao*; Yang, Xiaojie; He, Manchao	Aladejare, Adeyemi*; Idowu, Kayode Augustine; Ozoji, Toochukwu Malachi	Leonardi, Christopher R*; Łaniewski-Wołłk, Łukasz; Di Vaira, Nathan	Liu, Guoxiang*; Kumar, Abhash; Harbert, William ; Siriwardane, hema ; Crandall, Dustin; Cunha, Luciane	Cao, Meng*; Rutqvist, Jonny; Guglielmi, Yves; Tounsi, Hafssa; Mital, Utkarsh; Cihan, Abdullah; Glubokovskikh, Stanislav; Reagan , Matthew; Jordan, Preston; Birkholzer, Jens	
9:30 am - 9:45 am	200 - Tunnel-Ground Interaction Modelling in Jointed Stratified Rock Masses under Long-term High-speed Train Loading	1202 - Characterizing Rock Degradability as basis for Slope Instabilty Mitigation for Open Pit Closure	1194 - Probabilistic Distribution Model to Predict Fracture height	603 - Stress variations controlled by rock composition in an appraisal well in the US: Evaluating lithology, stress measurements, and methods	493 - A 3D Subspring Network Breakable Voronoi Model for Rock: Laboratory-Scale Behavior	
	Zhang, Zixin*; Yang, Junyao; Pan, W.B.; Wang, Shuaifeng; Lei, Qinghua	Carter, Trevor G*; Lorig, Loren; de Graaf, Phil	Oyarhossein, Mohammad*; Dusseault , Maurice B	Cruz, Leonardo*; Jimba, Solomon; Affinito, Ralph; Husain, zoya	Potyondy, David O*; Fu, Wei	

9:45 am - 10 am	590 - Tunnel interaction in low-permeability, squeezing ground Nordas, Alexandros N.*; Leone, Thomas; Anagnostou, Georgios	499 - Numerical Analysis of Slope Stability in Open Pit Mining based on an Integrated Geology and Geomechanics Approach Sun, Zhuang*; Raman Balasubramanian, Ganapathi; Fager, Andrew; Crouse, Bernd; Barlow, Glenn; Abouaali, Mounir	121 - The Energy Budget in Fluid-Driven Fracturing: A Continuum Damage Approach Mobasher, Mostafa*; Waisman, Haim	693 - Numerical Simulation Applications for Optimizing Fiber Optics Strain Monitoring During Injection in Fractured Reservoirs Eyinla, Dorcas S*; Emadi, Hossein; Navaid, Humza Bin; Arora, Aman; Kebir, Abir	932 - A novel high-stress method to measure total horizontal stress in mudrocks subjected to uniaxial strain loading and unloading Kim, Kiseok*; Awad, Mohamed; Espinoza, D. Nicolas
Tuesday (June 25) Session #2 10:30 am - 12:00 pm	**Civil Track (Hill Hall 202)**	**Mining Track (Green Ctr - Metals Hall)**	**Petroleum Unconventional Track (Green Ctr - Bunker Aud.)**	**Storage & Sequestration Track (Green Ctr - Petro. Hall)**	**Petroleum Conventional Track (CTLM 102)**
	Risk Assessment, Geohazards, and Constitutive Modeling in Rock Mechanics	**Numerical Modeling for Mining Applications**	**Hydraulic Fracturing IV - Experimentation, Simulation, and Field Results**	**Hydrogen Storage**	**AI/ML and Data Science**
10:30 am - 10:45 am	527 - Influence of Monitoring Time on Rockfall Magnitude-Frequency Uncertainty Phillips, Cameron J*; Walton, Gabriel	82 - Simulating Large-Scale Supported Pillar Laboratory Experiments in 3DEC Chaurasia, Akash*; Walton, Gabriel	300 - Development Of Hydraulic Fracturing Evaluation Techniques using Chemical Adsorption Mechanics Zhang, Shang; Zheng, Danzhu*; Yu, Mengjiao	145 - Modification of the Rock Mechanical Design of Salt Caverns on the Basis of Recent Research Zapf, Dirk*; Körner, Feline; Leuger, Bastian; Baumgärtel, Lukas	626 - Enhancing Well Kick Classification in Drilling Operations Using a Novel PCA-Based Machine Learning Approach Wang, Junzhe*; Jing, Haorong; Ozbayoglu, Evren; Baldino, Silvio; Zheng, Danzhu; Li, Xiang

10:45 am - 11:00 am	575 - Investigation of the frost-induced shallow alpine rockfall process using 3D FDEM Sun, Lei*; Grasselli, Giovanni	296 - Numerical modelling to investigate the influence of jointing on production blast fragmentation Dare-Bryan, Peter*	540 - Experimental Study of Underground heat Storage via Hydraulic Fractures Möri, Andreas; Naftalski, Jean; Liardon, Tristan; Talebkeikhah, Mohsen; Lecampion, Brice*; Lu, Guanyi; Burghardt, Jeff	419 - Geomechanical effects of cyclic loading on rocksalt Houben, Maartje*; Van Der Linden, Arjan; El Azouzi, Khalid; Marcelis, Fons; Coorn, Ab; van Schalm, Robert	24 - Estimating Well Specific Sanding from Numerically Generated Sanding Database Xiao, Yuxing*; Vaziri, Hans
11:00 am - 11:15 am	1049 - Development of a Prototype Thermal Imaging Rockfall Detection System Potter, Julia*; Meyer, Benjamin J; Ross, Brad; McNabb, James C; Keefner, John; Williams, Chad; Brown, Leonard; Prescott, Bobby; Cabrejo, Albert	522 - Sub-level caving blast modelling to determine the impact of blast design parameters and rock mass characteristics on fragmentation Khodayari, Ahmadreza*; Xu, Chaoshui; Dowd, Peter; Dare-Bryan, Peter; Metcalfe, Andrew	679 - Back to Basics: Experimental Measurement of liquid and Solid-liquid Properties to Predict Hydraulic Fluid Behavior in Fractures AlDajani, Omar*; Germaine, John; Einstein, herbert	601 - Evaluating Caprock Integrity During Underground Hydrogen Storage (UHS) in Subsurface Rocks Ajibona, Abduljeleel I*; Pandey, Rohit	439 - Improve Mechanical Earth Model Calibration using Statistical Concepts Ray, Peng*
11:15 am - 11:30 am	753 - Effect of Joint Orientation on Rock Mass Erosion based on Experimental Results using a Pilot Plant Spillway Model Karnati, Vineeth Reddy*; Saeidi, Ali; Rouleau, Alain; Quirion, Marco	591 - Concept Feasibility and Predicted Behavior of Mining a Rock Tower with Drill-and-Blast Undermining Using Dynamic Three-Dimensional Discontinuum Numerical Models Abousleiman, Rami*; Contreras, Carlos; Cremeens, Jim; Worsey, Tristan; Rouse, Nathan	759 - Experimental Study of Proppant Crushing and Conductivity Reduction within Rough Fracture in Shale Gas Formations Li, Liu*; Ma, XinFang; Zou, Yushi; Zhang, Shicheng; Zhang, Xiaohuan; Wang, Wenchao; Liu, ShiKang	791 - Implications of Underground Hydrogen Storage on the Sealing Ability of Aged Cement Hussain, Athar*; Emadi, Hossein; Thiyagarajan, Sugan Raj; Maury Fernandez, Diana C; Ispas, Ion; Watson, Marshall	1061 - Shale Anisotropy made Simple Holt, Rune M*; Bakk, Audun; Lozovyi, Serhii

11:30 am - 11:45 am	551 - Numerical Analysis of Induced Mechanism of Rockbursts in Tunnels	533 - Approximation of stress near tunnel intersections in deep burst-prone mines for support selection and rockburst hazard assessment	1071 - Numerical modeling of fluid-driven fractures in permeable media using symmetric cohesive elements	817 - Effects of Underburden Fault Properties, Operational Properties, and Stresses on Induced Basement Fault Seismicity during Hydrogen Storage in Depleted Gas Fields	1066 - Predicting strength properties applying machine learning techniques for highly heterogeneous microbial limestones from Brazilian pre-salt reservoirs
	Deng, Jian*; Gong, Yanglin; Li, Shaojun	Rigby, Alex; Malovichko, Dmitriy*; Kaiser, Peter	Mejia Sanchez, Eleazar Cristian*; Rueda Cordero, Julio Alberto; Roehl, Deane	Burtonshaw, James E.J.*; Paluszny, Adriana; Mohammadpour, Aslan; Zimmerman, Robert W	Ferreira, Francisco H*; Borba, Anselmo; Garcia, Paulo Fernando V; Santos, Erick; Falcao, Flavia
11:45 am - 12:00 pm	434 - Chemo-mechanical modelling of anhydritic claystones	651 - A Coal Pillar Burst Assessment Index Based on Numerical and Analytical Tools	954 - Field experiences of near-wellbore poroelastic effects and benefits of pump-out in Microfrac in Unconventional reservoirs	178 - Insights from Thermohydromechanical Simulations For Real-time Monitoring of UHS in Saline Aquifers	916 - Machine Learning-Based Drill Bit Wear Prediction for Enhanced Drilling Performance
	Nousiou, Antonia*; Anagnostou, Georgios	Cardenas Triana, Cristian; Androulakis, Vasileios; Agioutantis, Zach*	Sen, Souvik*; Chakrabarti, Prajit; Franquet, Javier	Okoroafor, Esuru R*	Khalifa, Houdaifa*; Tomomewo, Olusegun S; Doghman, Bachir; Berrehal, Badr Eddine; Benabid, Mouna Keltoum

Tuesday (June 25) Showcase Sessions 2:00 pm - 3:30 pm	Tunneling (Green Center - Friedhoff Hall)		Fault Mechanics (Green Center - Bunker Auditorium)
2:00 pm - 2:22 pm	1213 - Numerical prediction of thermo-mechanical spalling around a deep nuclear waste repository in crystalline rock		508 - Meter-scale Laboratory Earthquakes Triggered by Fluid Injection and the Role of Background Stress in Mediating Runaway Ruptures
	Andrea Lisjak, Omid Mahabadi, Johnson Ha, Geomechanica Diego Mas Ivars, SKB		Gregory McLaskey Cornell University, NY, USA
2:22 pm - 2:44 pm	1224 - Tunnel Design and Construction in Ohio Shale Formation		405 - Micromechanics of sub-critical failure in a porous rock: insights from integrating sound and x-ray vision
	Chi Park, Gregory Rogoff, Brad Murray Delve Underground		Alexis Cartwright-Taylor, Heriot-Watt University, U.K., Maria-Daphne Mangriotis, NOC, U.K.; Ian G. Main, Ian B. Butler, Andrew Curtis, Florian Fusseis, Andrew F. Bell, U. of Edinburgh, U.K.; Edward Andò, EPFL Lausanne, Switzerland; Martin Ling , Edinburgh Hacklab, U.K.
2:44 pm - 3:06 pm	1193 - Tunneling in Alpine fault zones – Case study Semmering Base Tunnel		515 - Microscopic defect dynamics during a brittle-to-ductile transition
	Helmut Wannenmacher, Implenia Österreich Gmbh Manuel Entfellner, Thomas Fiest, Implenia AG Wulf Schubert, TU Graz		Matej Pec, Hoagy O'Ghaffari, Ulrich Mok, Hilary Chang, Brian Evans, Yves Bernabe, MIT; Tushar Mittal, Penn State; Andrew Cross, Woods Hole Oceanographic Institution
3:06 pm - 3:28 pm	1236 - Response to Movement within an Open-Cut Rock Face: Case Study from Ottawa light Rail Project, Ontario, Canada		1235 - Simulating Induced Earthquakes in Complex Fault Systems
	Anna M. Crockford Brierley Associates		Kyungjae Im, Jean-Philippe Avouac, Taeho Kim, and Linxuan Li California Institute of Technology

Wednesday (June 26) Session #1 8:30 am - 10:00 am	Interdisciplinary Track (Hill Hall 202)	Mining Track (Green Ctr - Metals Hall)	Petroleum Unconventional Track (Green Ctr - Bunker Aud.)	Storage & Sequestration Track (Green Ctr - Petro. Hall)	Petroleum Conventional Track (CTLM 102)
	Innovative Rock Testing and THMC Coupled Processes	**Deep Mine Stability & Induced Seismicity**	**Geomechanics Reservoir Characterization I**	**Waste Disposal & Storage (Nuclear waste storage & waste water disposal)**	**Drilling & Completion: Cased hole**
8:30 am - 8:45 am	618 - Seismic investigation of monotonic and constant pressure hydraulic fracturing schemes in granite Butt, Awais*; Hedayat, Reza; Moradian, Omid	448 - Micro-seismic Monitoring in Mines - Benefits and limitations Rebuli, Daryl*	114 - Elastic Anisotropy in Bakken Formation Mitra, Abhijit*; Merzoug, Ahmed; Cobb, Steve; Mokhtari, Mehdi	109 - Implementation and Verification of Enhanced Munson-Dawson Creep Model for Rock Salt Cheng, Zhao*	305 - An Experimental Study on the Influence of Cyclic Loading and Eccentric Casing Geometry on Cement Sheath Integrity Zheng, Danzhu*; Ozbayoglu, Evren; Miska, SteFan; Baldino, Silvio
8:45 am - 9:00 am	779 - Geomechanical properties of hydrate-bearing sediments from the Gulf of Mexico - viscoplastic behavior Cardona, Alejandro*; Bhandari, Athma R; Flemings, Peter B.	610 - Experimental Assessment of the Energy Dissipation and Deformation Capacity of Ground Support Systems Under Dynamic Loading: Insights from LaRonde Mine Dynamic Drop Test Program Durham, Christopher*; Caron, Marie-Eve; Falmagne, Véronique; Braendle, Rico	473 - Mechanical Upscaling in Highly heterogeneous Rock Masses: Impact on Anisotropy and Subsurface Stress Prediction in the Bone Spring and Wolfcamp Formations of the Delaware Basin, USA Cheng, Liwei*; Crawford, Brian; Chen, Huangye; Macquaker, James; Mclendon, Darren	543 - Progressive Excavation Disturbance Zone Evolution during and Post Mine-by Tunneling (PRECODE) – Insight into a New Underground Research Laboratory for Crystalline Rocks in the BedrettoLab Hamdi, Pooya*; Achtziger-Zupancic, Peter; Dickmann, Jonas S.; Kruszewski, Michal; Rinaldi, Antonio Pio; Villiger, linus; Shakas, Alexis; Perras, Matthew; Bahrani, Navid; Jiang, DanYang; Amann, Florian; Wiemer, SteFan	258 - Hyper fast THMC well integrity simulator for powering optimization, sensitivity and risk analysis Kostorz, Wawrzyniec*; Le Blevec, Thomas; Joulin, Clement

9:00 am - 9:15 am	1091 - Quantifying the Uncertainties of Macro- and Micro-Mechanical Measurements on Sequestration Reservoir Formations	154 - The Role of Thick Competent Strata in Face Bursting in Underground Longwall Mines	63 - A thermo-visco-plastic study of the Wolfcamp shale: experiments and modeling	682 - Simulation of coupled THMC processes in fractured rocks using a dual-media approach	904 - Use of combined analytical and numerical sand production prediction methods to define simple cut-off for sand control and well completion selection
	Wu, Zhidi*; Edelman, Eric C; Ritterbush, Kathleen; McPherson, Brian	Chambers, Derrick J*; Boltz, Shawn; Khademian, Zoheir; Walton, Gabriel; Shragge, Jefff	Rassouli, Fatemeh; Haghighat, Ehsan ; Juanes, Ruben; Zoback, Mark*	Mosley, Kyle*; Hartley, Lee; Turnbull, Robert; Cottrell, Mark G ; Bym, Tomas; Mas Ivars, Diego	Khaksar, Abbas*; Younessi, Ahmadreza; likrama, Fatmir; Gui, Feng
9:15 am - 9:30 am	146 - Experimental Study of the Effect of Porosity on EICP Biomineralization in Dolostone and Shales Under Uniaxial Compressive Stress Condition	924 - Changes in seismicity, stress, and stress proxies before and after the large seismic event with Mw 4.2 on May 18, 2020 in Kiirunavaara Mine (Sweden)	263 - A New Apparatus to Measure the Coefficient of Friction and Changes in Fracture Permeability	849 - Laboratory Replication of Gas Mixture Transport in Fractured Porous Tuff Following a Subsurface Explosion	436 - Kinematic Analysis of Geomechanical Displacement Fields to Assess lifetime Integrity of Wellbores
	Ngoma, Mary C*; Kolawole, Oladoyin; Olorode, Olufemi M; Kwon, Tae-Hyuk	Dineva, Savka*; Dahner, Christina; Beck, David; Piana Agostinetti, Nicola; Mihaylov, Dimitar; Erguncu Guclu, Irem	Sathyanath, Arun*; Sharma, Mukul M.	Li, Wenfeng*; K C, Bijay; Meng, Meng; Frash, Luke; Neil, Chelsea; Stauffer, Philip	Sathuvalli, Udaya Bhaskar R*; Suryanarayana, P V Suri; Lewis, David
9:30 am - 9:45 am	792 - Assessment of Subsurface Ice-Based Thermal Energy Storage: THM Coupled Geomechanical Study	616 - Seismic Risk Management Practices at Vale's Sudbury Operations	764 - Permeability Test on Opalinus Clay shale with a Preexisting Discontinuity	948 - A New Finite Element Code for Thermo-Hydro-Mechanical Coupling in Geomechanics: Application to Deep Borehole Disposal of High-Level Radioactive Waste	248 - Mechanical Performance of One Latex Cement System for Thermal Storage Wells
	Tounsi, Hafssa; Zhang, Yingqi; Rutqvist, Jonny*; Birkholzer, Jens	Yao, Mike*; Landry, Dave	Arzuaga Garcia, Ignacio A; Einstein, herbert; Casagrande, Camilo; Celleri, Humberto*; Sánchez, Martín	Yoo, Hwajung*; Min, Ki-Bok	Meng, Meng*; Pyatina, Tatiana; Frash, Luke; K C, Bijay; Madenova, Yerkezhan; Lyare, Uwaila C; Li, Wenfeng; Zhang, Weicheng

9:45 am - 10 am	58 - helium Gas Release by Rocks Undergoing Crushing	1184 - Shifting Highwall Blast Vibration Frequencies Higher Maintaining PPV Lower from Near-Field Blasts	1113 - Strain and stress analysis ahead of the propagating fracture through bedding planes using Digital Image Correlation (DIC)	1178 - Modeling of thermo-hydro-mechanical processes in a bentonite buffer under high temperature	614 - Solids Production Geomechanical Evaluation In A Fractured/Vuggy Carbonate Reservoir from Abu Dhabi Offshore Field : Postmortem Analysis And Advanced Finite Element Simulations
	Kibikas, William*; Paul, Matthew; Wilson, Jennifer; Kruichak-Duhigg, Jessica; Broome, Scott	Yang, Ruilin*; Proulx, Remi; Rodriguez, Areli	Bhadariya, Vishesh*; Lee, Hunjoo	Samarakoon, Radhavi*; Zheng, liange	Pourpak, Hamid*; Su, Kun; Bikong , Christian; Rammal, Hadi; Bigno, Yann; Xi, Guifen; Kheidri, Hamza; Bere, Adam T; Kato, Jun

Wednesday (June 26) Showcase Sessions 12:30 pm - 2:00 pm	Mining Industry Rock Mechanics (Green Center - Friedhoff Hall)		Governance Perspectives on CCS & Geothermal (Green Center - Bunker Auditorium)
12:30 pm - 12:52 pm	1219 - The Role of Major Geological Features in the Planning, Development, and Operation of Panel Cave Mines		1209 - Underground Injection Control (UIC) Class VI
	Ryan Campbell Freeport McMoRan		Sharon Newman EPA
12:52 pm - 1:14 pm	609 - Geomechanical practices in developing open-pit slopes at Kinross Gold		1223 - DOE's Carbon Transport and Storage Program: Supporting Storage Infrastructure Build-Out Critical for Decarbonization
	Jerry J Ran Kinross Gold Corporation		Gillian Rosen, Amanda Raddatz Bopp, Darin Damiani, Traci Rodosta, Rajesh Pawar, Robert Smith, Kevin Dooley US DOE
1:14 pm - 1:36 pm	1206 - Managing risks associated with mining through the Wendy stopes at the Candelaria Open Pit Mine		1230 - Drilling for Opportunities: The Geothermal Technologies Office
	Marc Ruest, Lundin Mining Jaime Campos, Candelaria Copper Mining Complex		Kevin Jones, Lauren Boyd DOE Geothermal Technologies Office
1:36 pm - 1:58 pm	1225 - Rock Engineering at Kiruna Mine – the Change Journey		1068 - Induced seismicity in geothermal settings: historical perspective, enhanced geothermal systems, setbacks, and future directions
	Matthias Wimmer LKAB		J. Ole Kaven USGS Earthquake Science Center

Wednesday (June 26) Session #2 2:15 pm - 3:45 pm	Interdisciplinary Track (Hill Hall 202)	Mining Track (Green Ctr - Metals Hall)	Petroleum Unconventional Track (Green Ctr - Bunker Aud.)	Storage & Sequestration Track (Green Ctr - Petro. Hall)	Petroleum Conventional Track (CTLM 102)
	Applications of AI in experimental, numerical, and geophysical rock mechanics	**Fundamental rock mechanics, instrumentation and monitoring in mining**	**Geomechanics Reservoir Characterization II**	**Geomechanical Challenges in Underground Storage**	**Reservoir Geomechanics II - Lab experiment**
2:15 pm - 2:30 pm	921 - AI-Driven Predictive Maintenance for Enhanced Reliability of Top Drive Thrust Bearings Benarbia, Achouak*; Sami Riadh, Ghachi ; Khalifa, Houdaifa; Tomomewo, Olusegun S	312 - Automation of Underground Void and Support Deformation Monitoring – Effective Decision making Data and Tools Without the Penalty in Time and Effort Franke, Jochen*; Gonzalez, Carlos	878 - Permeability evolution of fractures in shale in the presence of high salinity water Bai, Tianhao*; Melkoumian, Noune; Hashemi, Sam; Badalyan, Alexander; Zeinijahromi, Abbas	257 - Natural sealing of leaky wells by creep of rocksalt Terheege, Jan*	757 - Stress-permeability characterization and proposal of creep model for pre-salt carbonates under lab-scale stepwise hydrostatic loading and unloading Garcia, Paulo Fernando V*; Santos, Erick Slis; Rossi, Diogo; Ferreira, Francisco H; Borba, Anselmo
2:30 pm - 2:45 pm	95 - Improving Rock Excavation Efficiency Through Monitoring of Pick Cutter's Wear Condition Morshedlou, Amid*; Dagli, Ismet ; Rostami, Jamal; Moradian, Omid; Belviranli, Mehmet	174 - A Statistical Review of Rock Mass Classification With Some Surprising Results Wellman, Edward C*; Kemeny, John	837 - Effects of interactions between produced formation fluid and rock matrix on pore structure of Caney Shale, southern Oklahoma Xiong, Fengyang; Awejori, Gabriel A; Radonjic, Mileva*	671 - Evaluation of caprock integrity with laboratory scale in-situ CO2 injection test Adisornsupawat, Kanitthorn*; Sangnimnuan, Anusarn; Rabiabpo, Porranut; Govindarajan, Sudarshan; Thombare, Akshay; Gokaraju, Deepak; Aldin, Munir	46 - Use of Minifrac and PVC Data to Constrain Re-pressurization Stress Path Zhang, Jianguo*; Edwards, Stephen; Majidi, R; Mahadev, K; Duvivier, G

2:45 pm - 3:00 pm	447 - Predicting Rock Fluid Transport and Mechanical Properties using Graph Neural Networks	19 - Strength Characteristics of Highly Anisotropic Burst-Prone Coal Considering Mineralogical Compositions	1099 - Integrating Rock Physics Templates for Enhanced Seismic Interpretation: A Comprehensive Analysis of Influencing Factors on Frequency-Dependent Velocity of Tight Carbonate Formations	498 - Modeling of Thermal-Mechanical Impact on Wellbore Integrity Due to CO2 injection	337 - Experimental investigation of chalk influx in a depleted reservoir
	Chung, Jaehong*; Ahmad, Rasool; Liu, Mingliang; Sun, WaiChing; Cai, Wei; Mukerji, Tapan	Kim, Bo Hyun*; Larson, Mark K	Malki, Mohamed Lamine*; Allam, Lotfi MY; Mellal, Ilyas; Latrach, Abdeldjalil; Rasouli, Vamegh; Larbi, Anis; chellal, hichem aymene; Aymene, Hichem	Sun, Zhuang*; Fager, Andrew; Crouse, Bernd	Bhuiyan, Mohammad*; Papamichos , Euripides
3:00 pm - 3:15 pm	1154 - Machine learning enhanced interpretation of wellbore data for underground storage	194 - Dynamic Rock Testing and Implications for Blast-Induced Ground Vibration Mitigation	1079 - Comparison of Geochemical Reactivity of Marcellus and Caney shale based on effluent analysis	588 - Tailoring Barrier Design Process to Assess Cement Integrity in CCS Wells	25 - Poroelastic Properties of Indiana limestone
	Bondarenko, Nikita; Ankul, Ansh; Makhnenko , Roman *; Ganesh, Pooja; Williams-Stroud, Sherilyn; Goldberg, Cassandra	Tetteh, Harriet*; Rinehart, Alex; McLemore, Virginia T.; Li, Wenfeng	Bethel Dje, Loic*; Awejori, Gabriel A; Radonjic, Mileva	Jandhyala, Siva Rama Krishna*; Lewis, Samuel	Kalbekov, Arkhat*; Naumann, Marcel; Duranti, Luca; Prasad, Manika

3:15 pm - 3:30 pm	431 - Predicting excavation-induced damage depth through MLP	207 - An Autoencoder-Based Deep Learning Model for Enhancing Noise Characterization and Microseismic Event Detection in Underground Longwall Coal Mines Using Distributed Acoustic Sensing Monitoring	1132 - Study on the law of underwater electric pulse fracturing in sandstone	640 - Generation of Micro Fracture Clouds in Rocks: Mechanisms and Implications	417 - Strength characterization and empirical correlations for carbonate rocks from the Brazilian pre-salt reservoirs
	Golabchi, Yousef*; Perras, Matthew; Khan, Usman	Tourei, Ahmad*; Martin, Eileen R; Ankamah, Alexander; Hole, John; Chambers, Derrick JA	Lu, Cong*; Zeng, Qijun; Li, Xinyang Xin; Zhu, Qiuyan; Li, Qiuyue; Wang, Shouxin; Meng, Qingyang; Luo, Cheng; Huan, Yaqi	Mutlu, Uno U*; Boitnott, Greg; lisjak, Andrea; Mahabadi, Omid; Sherizaddeh, Taghi; Guner, Dogukan; Nowak, Samuel V; Ghassemi, Ahmad	Sampaio, Rafaella Villela*; Righetto, Guilherme L; Fontoura, Sergio; de lima, Claudio; Naumann, Marcel
3:30 pm - 3:45 pm	96 - Progressive reduced order modeling: from single-phase flow to coupled multiphysics processes	1191 - Development of a Non-Destructive Stress Measurement Technique with Applications in Deep Mining Using Distributed Sensing	748 - Reservoir fine evaluation of horizontal well multi-stage fracturing based on unsupervised cluster machine learning	341 - Mechanical stability analysis of fracture-cavity carbonate gas storage	103 - Sand rate in gas flow
	Kadeethum, Teeratorn*; Chang, Kyung Won; Jakeman, John D.; Yoon, Hongkyu	Hendi, Sepideh*; Eberhardt, Erik; Gorjian, Mostafa; Stead, Douglas	Wang, Wenchao*; Ma, XinFang; Zou, Yushi; Zhang, ShiCheng; Li, liu; Yang, Peng; Zhao, Ziwen; Zheng, Ao; Wang, Xin; Yang, lifeng	Tang, Huiying*; Zheng, Xin; Wang, Xiaoping; Zhao, Zihan; Chen, Yuye; Zhao, Yulong; Zhang, liehui	Papamichos, Euripides*; Varkas, MiChail; Walle, Lars Erik; Berntsen, Andreas N

POSTERS

Monday (June 24), 5:15 pm - 6:15 pm
Green Center - Friedhoff Hall

Civil Track	36 - Prediction of engineering characteristics of rock masses using actual TBM performance data with supervised learning algorithms	423 - The Thrust-Penetration Gradient: Decoding Geomechanical Dynamics and TBM Response	511 - DEM Modeling of 3-D Kinematics in Rock Slope Failure	653 - Predicting Excavation Performance of EPB TBM by Using Soil Properties: A case study of Dudullu Bostanci Metro Project	876 - Multi-source Data Fusion and Knowledge Presentation for Shield Tunnel Maintenance Work Based on Knowledge Graph
	Samadi, Hanan; Hassanpour, Jafar*; Rostami, Jamal; Khatti, Jitendra	Schlicke, Marcel*; Wannenmacher, helmut; Amann, Florian; Marcher, Thomas; Nübel, Konrad	Keissar, Yuval*; Brown, Ian; Sitar, Nicholas; Gardner, Michael	Seyedrezaei, Mirali*; Tumac, Deniz	Pang, Haojun; Zha, Chenchen; Jia, Fei; Xue, Yadong*
	117 - Real-Time Prediction of Potential Hazard Area In Seville's During Underground Excavation With EPB	430 - Monitoring Slope Movement using Photogrammetry and Thermal Imagery Models Collected using UAV	545 - Influence of buttressing and lateral confinement on a large block prior to rockfall	715 - New insights for stress conditions of laboratory shear tests	892 - Quantitative Assessment of Anisotropic Elastic Properties with Cylindrical Specimens
	Bahri, Maziyar*; Duzgun, Sebnem; Mascort Albea, Emilio Jose ; Romero hernandez, Rocio	Tohm, Calvin; Lingwall, Bret*; Yu, linus	Longar, Elizabeth*; Walton, Gabriel	Chai, Shupeng*; Zhao, Qi	Kim, Daeyeong; Kim, Kwang Yeom*; Diaz, Melvin B; Kim, Sangseob; Seo, Sumin; Kim, Hanna; Park, Eui-Seob
	147 - Evaluating a Practical Method for Rockfall Magnitude Cumulative Frequency Estimation	432 - Shear Strength and 1D Compressibility Characteristics of Fine-Grained Soil and Weathered Shale Exposed to Desiccation Cycling	574 - Development of Photogrammetric Rockfall Database and Analysis of Trends at a Rock Slope along I-70W, West of Idaho Springs, CO	733 - Incorporating Roughness Degradation within the Critical State Framework: Modeling the Shear Behavior of Rock Joints	1062 - An Investigation of the Influence of Random Packing on PFC3D Simulations of Unconfined Compression, Brazilian, and Three-Point Bending Tests
	Werley, Keara*; Sala, Zac; Hille, Madeline; Vessely, Mark; Walton, Gabriel	Tohm, Calvin; Lingwall, Bret N*	Hollander, Jacob A*; Walton, Gabriel; Kromer, Ryan	Matsuoka, Yuki*; Kikumoto, Mamoru; Ogata, Sho; Kishida, Kiyoshi	Haydn-Myer, Madison*; MacLaughlin, Mary M; Arnold, Lorne

Civil Track	156 - Investigation of the Failure Mechanisms for Inducing Rock Slope Hazard in New Jersey, United States Oppong, Felix; Khadka, Prabhakar*; Kolawole, Oladoyin	455 - A New Approach to Model Irregular Particles Breakage with Deploying Image Analysis Techniques on Discrete Element Method Amir Hosseini, Mehryar*; Tahmasebi, Pejman	580 - Improving Rockfall Analysis: A Review of Cluster Filtering Methods for Point-Cloud-Based Slope Monitoring Emmons, Edward B*; Walton, Gabriel	811 - Slope Stability Finite Element Modeling of El Misti Volcano, Peru Hollander, Jacob A*; Walton, Gabriel; Villeneuve, Marlene; Alvarez, Guido Edgard Salas; Huillca, Carlos Alberto Luza	1204 - Hypoplastic model predictions for Ennore sand under monotonic and cyclic loading conditions Wani, Sahil*; Ul Rehman, Mujeeb; Rao, Mahima S; Kadasami, Ramesh Kannan; Banerjee, Subhadeep
	380 - Evaluation of the sensitivity of compressional waves to assess the presence of a macroscopic flaw in a pre-fractured Agaria marble specimen Verma, Anita*; Shirole, Deepanshu; Sinha, Sankhaneel				
Mining	53 - Preliminary Blast Fragmentation Modeling in an Underground Aggregate Operation Shields, Lauren*; Agioutantis, Zach; Calnan, Josh; Silva, Jhon; Maldonado, Ernesto	285 - Deformation Characteristics and Damage Evolution Mechanisms of Dry and Saturated Argillaceous Siltstone under Cyclic Loading Wu, Peng; Chen, Jian*; Fu, Xiao-dong; Huang, Jue-hao	544 - Characterization of Direction-Dependent Properties of Sierra White Granite: Initial Results Kafle, Laxman*; Villamor-Lora, Rafael; Mok, Ulrich ; Germaine, John ; Einstein, herbert H.	767 - Update on Rock-type Specific Hoek-Brown Constant “s” Khamitova, Arailym; Suorineni, Fidelis T*; Madenova, Yerkezhan	1072 - Calibration of Numerical Rockbolt Behaviour in Pull to Laboratory Testing Data using Finite Element Method Bolt Models and 3D Material Models Fischer, Caitlin P*; Diederichs, Mark S; Forbes, Bradley

Mining	67 - Rock mass failure and remedial measures implemented when excavating ultra-deep shaft stations	363 - Study on the damage mechanism of rock around wells subjected to impact loading	586 - Behavior of post-yielding parameters of marble during plastic deformation	784 - Challenges and Opportunities for Machine Learning in Rock Mass Classification	1081 - Laser-Induced Rock Breakage (liRB) Technology in Mining Engineering - A Review
	lindsay, Jared*; Hall, Alex K; Cai, Ming; Simser, Brad	Huang, Tao*; Liu, Qingyou; Zhu, Haiyan; Dai, Xianwei; Ji, Ran; He, Xiao; SHe, Chaoyi; Zheng, Majia	Sarkar, Sarbartha; Kumar, Rakesh*	Ambah, Emmanuela; Elmo, Davide*	Madavi, Rohit Pandurang*; Mitra, Rudrajit; Diwakar, Prasoon
	83 - Enhanced method for measuring joint roughness using sub-millimeter resolution 3D laser scanning	445 - Measuring brittle damage thresholds of crystalline rocks by acoustic emissions on compressive and tensile laboratory tests	713 - Optimal Camera Angle for Measuring Joint Roughness using UAV-based 3D Photogrammetry	825 - Laboratory investigation on relations between characteristic impedance, energy transformation and dynamic stress induced faults in rocks	1106 - Periodic assessment of micro-seismicity to assess the ground support requirements on potential fault headings - Case studies
	Shintassova , Mariya*; Sepúlveda, Sergio; Fatolahzadeh, Sina	Malicki, Ethan*; Packulak, Timothy RM; Gagnon, Émélie; Diederichs, Mark S; Day, Jennifer J	Leem, Junsu*; Choi, Jiwon; Kang, Il-Seok; Song, Jae-Joon	Ozoji, Toochukwu Malachi*; Zhang, Zongxian; Aladejare, Adeyemi; Serasinghe, Bathiya; Bakkamuntala, Nikhil; Obaje, Nuhu; Umar, Mohammed	Leite, Ana RS*; Landry, David; Ramdass, Navita; Hooey, Garrett; Roy, Justin
	116 - A proposed framework to estimate pillar strength in room-and-pillar hard rock mines	509 - Optimizing overall slope angle and net present value (NPV) through the utilization of ground-based pit wall monitoring data	761 - Study on changes of mechanical parameters of coal seam roof rock under the influence of artificial fractures	1003 - Geotechnical design for open pit coal mining in proximity to electrical power lines: risks, mitigation, and regulatory compliance	1124 - Geotechnical Implications of Shale layers on the Stability and Productivity of Iron Ore Mines: A Comparative Study
	Dzimunya, Nevaid Z*; Fujii, Yoshiaki	Quansah, Ebo A*; Anani, Angelina ; Adewuyi, Sefiu	Zhou, Hang*; Shi, Guanghao; Zhou, Fujian; Li, liu; Wang, Wenchao; Liu, Yunyi; Zhang, li; Wang, Bo	Zvarivadza, Tawanda*; Ng'andu, Sampa; Zindi, Luke; Mohutsiwa, Moshe; Masethe, Richard RT; Adoko, Amoussou; Onifade, Moshood; Chikande, Tonderai; Moyo, Senzeni; Firoozi, Ali	Mohanty, Anshuman*; Mishra, Manoj Kumar; Rostami, Jamal; Ghosh, Subhamoy; Sahoo, Barun Bedanta ; Behera, Chandrakant; Sesay, Manso Deen

Mining	273 - Definition please - a rock engineering dictionary Yang, Beverly*; Li, Yalin; Ambah, Emmanuela; Elmo, Davide				
Interdisciplinary	68 - A cross-scale characterization of porous rocks altered by flow and dissolution Xu, Zijie*; Li, Wei	199 - Numerical evaluation of mass transfer process on acid reactive flow in carbonate rocks Cunqi, Jia*; Alkaabi, Saif; Sepehrnoori, Kamy	453 - High-performance modeling of coupled hydro-mechanical behavior with graphical processing units Bondarenko, Nikita*; Podladchikov, Yury; Makhnenko , Roman	690 - Study on Numerical Simulation Method of Profile Control with Polymer Microspheres Ma, Mengqi*; Li, Junjian; Zhu, Zhouyuan; Yuan, Shuai; Yu, Fuwei; Su, Hang	1098 - Deformation and Damage Evolution Characteristics in Laminated Rocks Using Discrete Element Method Pothana, Prasad*; Garcia, Fernando; Kegang, Ling
	170 - Fluid Flow in a Fracture Network under Changing Stresses: A Laboratory Study Mei, Zijin*; Li, Wei; Jin, Wencheng; Neupane, Ghanashyam; Atkinson, Trevor	345 - Mechanism transition for fracture energy dissipation of Shale under crack-parallel compression Zhang, Min*; Zhang, Guangqing; Ling, Yansen; Yang, Feng; Zhong, Anhai; Zheng, Xuelin	683 - Statistical Analysis of Rock Cutting Forces Acquired from Full-Scale linear Rock Cutting Machine Tests Ishaq, Muhammad*; Thyagarajan, Muthu Vinayak; Rostami, Jamal	708 - Stress Distribution in Accreting Sediments: A Geomechanical Study of Upper-Plate Faults Lopez-Campos, Graciela*; Nikolinakou, Maria; Flemings, Peter; Saffer, Demian	1201 - Investigating the Deformation Characteristics of Dry Mohr-Coulomb Material During Radial Fluid Injection S Kumar, Jithin*; Kandasami, Ramesh Kannan; Chaudhuri, Abhijit; Detournay, Emmanuel

Storage & Sequestration	78 - Stress Corrosion Cracking in Carbonates Initiated by Carbonic Acid, A Reactive Molecular Dynamic Simulation	255 - Geomechanical and petrophysical effects of long-term hydrogen exposure on Berea sandstone – An experimental study	501 - Nonlinear acceleration of the iterative-sequentially coupled flow and geomechanics fixed stress scheme	696 - Experimental Research on Characteristics of CO2-CH4 Transport in Water-Bearing Carbonate Gas Reservoirs	897 - Laboratory characterization of backfill-buffer bentonite blocks under hydration aided by X-ray CT technology
	Wang, Jingru*; Liu, Yuetian; He, Yuting; Liu, Xinju; lin, Ziyu; Zhang, Bowei; Chai, Rukuan	Thiyagarajan, Sugan Raj*; Emadi, Hossein; Hussain, Athar; Maury Fernandez, Diana C; Ispas, Ion; henderson, Steven K; Watson, Marshall	Waziri, Sohail*; ren, guotong; Tomin, Pavel; Guyaguler, Baris	Huang, Yize*; Elsworth, Derek; Li, Xizhe; Hu, Hu; Wu, Zhenkai; Guo, Qimin; Pei, XiangYang	Lee, Gyung Won; Yun, Seo Hyeon; Diaz, Melvin B; Kim, Minseop; Kim, Jin Seop; Lee, Chang Soo; Kim, Kwang Yeom*
	142 - Stability study of tight sandstone reservoirs during CO2 dynamic storage process	400 - Damage evolution of sandstone under cyclic loading for underground gas storage	584 - An investigation of fault geometric effects on fault activation mechanisms in CO2 storage	800 - Understanding Cement Hydration in CO2 Reservoirs: Geochemical Modeling in the Powder River Basin	1110 - Thermodynamic modelling of carbonation of blended cements for wellbore integrity
	He, Yuting*; Liu, Yuetian; Wang, Jingru; jingpeng, li; Zhang, Bo; Chai, Rukuan; Fan, Pingtian	Zhang, Wenhong*; Tian, Shouceng; Weng, Jintao *; Sheng, Mao; Wang, Tianyu; Ma, Zhengchao	Mortazavi, Ali*; Maratov, Torekeldi	Allam, Lotfi MY*; Malki, Mohamed Lamine; Mellal, Ilyas; Kolla, Nazia; Rasouli, Vamegh; Dehdouh, Abdesselem; Abdelhamid, Cilia	Rahman, Farzana*; Ferron, Raissa Douglas
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	Mahgoub, Samah A.*; Abedi, Sara	Zhang, Kunming; Liu, Shimin*	Bakelli, Omar*; Xiao, Ting; McPherson, Brian; Vega, Carlos; Moodie, Nathan; chellal, hichem aymene; Mellal, Ilyas	Willis, Rachel M*; Yoon, Hongkyu; Harding, Jenny	Abdollahi, Reza*; Movassagh, Abbas; Kasperczyk, Dane; Haghighi, Manouchehr

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	Zhao, Chenxi; Lei, Qinghua*; Zhang, Zixin	Kim, Hyunbin*; Bondarenko, Nikita; Ding, Shirui; Makhnenko , Roman	Kang, Ying*; Ning, Zhengfu; Lyu, Fangtao; Jia, Zejiang	Cunqi, Jia*; Hu, Jinchuan; Sepehrnoori, Kamy	Wang, Yangang*; Feng, Yongcun; Li, Saxing; Yu, Bo
Geothermal	177 - Maximizing Geothermal Energy Recovery from Enhanced Geothermal Systems through Huff-and-Puff: A Comprehensive Simulation Study	504 - Feasibility of Repurposing Oil and Gas Wells for Geothermal Energy Production in Wyoming, USA.	647 - Fracture Initiation and Propagation Characteristics of SC-CO2 Fracturing in Hot Dry Rock: A Coupled Thermal-Hydraulic-Mechanical-Damage Numerical Model Based on Phase Field Method	766 - Experimental determination of the fracture toughness of rocks from deep geothermal reservoirs in Bavaria, Germany	980 - Molecular Dynamics Modeling of Effects of Water and Temperature on Rock Strength
	Sekar, Lokesh; Okoroafor, Esuru R*	Latrach, Abdeldjalil*; Dehdouh, Abdesselem; Abdelhamid, Cilia; Mellal, Ilyas; Rabiei, Minou	Zhou, Xiaoxia; Wang, Tianyu*; Ma, Zhengchao; Zhang, xu; Hsu, Maoya; Sun, Yaoyao; Tian, Shouceng	Drexl, Catharina*; Mattheis, Justin; Thuro, Kurosch	Liu, li; Li, Xinlong; He, Wenhao*; Zhang, Runqing; Fan, Gaojian; Ji, Ran; Shi, Huaizhong; Xiong, Chao
	261 - Methodology for Constructing Three-Dimensional DEM Model of Rock Specimen from CT Scan	579 - Enhanced Geothermal Site Characterization using Generative Adversarial Network and Ensemble Method	686 - Fluid Injection-Rate Controls on Seismic Moment	858 - Analysis of the Deadwood Formation in North Dakota: Applying Rock Physics	1015 - Study of High-Temperature Hot Dry Rock Fracture Features under True Triaxial Stress with Supercritical CO2 Fracturing
	He, Changdi*; Mishra, Brijes	Bao, Jichao; Lee, Jonghyun; Yoon, Hongkyu*	Roseboom, Matthew*; Eijsink, Agathe M; Elsworth, Derek; Yu, Jiayi; Marone, Chris ; Rivière, Jacques; Shokouhi, Parisa; Wang, Junpeng	Alamooti, Moones*; Namie, Shane	Fan, Xuhao; Wang, Haizhu*; Liu, Mingsheng; Wang, Bin; Zhang, YaoChen; Mao, Zelong; Zhang, Guo Xin; Stanchits, Sergey; Cheremisin, Alexey

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	Han, Kyungsoo*; Pyrak-Nolte, Laura; Bobet, Antonio	Christoforidou, Eirini*; Bobet, Antonio; Pyrak-Nolte, Laura	Li, Kun; Sun, Zhaowei; Wang, Zikang Wang; Wu, Xiaoguang*; Wang, XiangYang; Ye, Shanlin; Liu, Muchen	Dehdouh, Abdesselem*; Bettir, Nassima; Mellal, Ilyas; Abdelhamid, Cilia; Allam, Lotfi MY; Rasouli, Vamegh; gyimah, emmanuel	Mindygaliyeva, Balnur*
Petroleum Conventional	86 - Research on the cuttings transport in large-sized hole based on CFD-DEM method	184 - Deformation and failure mechanism of ultra-deep dolomite and FDEM numerical simulation	322 - Evaluation of mechanical properties of heavy oil thermal recovery pipe strings in multi-component thermal fluid corrosive environment	408 - Decomposition of rock deformation during proppant embedment	1040 - The Perlite Usage in High Density Oil-Well Cement
	Zhao, Jun*; Huang, Wenjun; Deli, Gao	Li, Hongda hong*; Lu, Yunhu; Li, Ji; Zeng, Ping; Fu, Xing	Weng, Jintao **; Tian, Shouceng; Tian, Kangjian; Wang, Tianyu; Tan, Yawen; Zhang, Wenhong	Li, YaoYang*; Zhang, Guangqing; Xie, Pengxu; Wang, Jue	Ahmed, Abdulmalek*; Ali, Ahmed ; Elkatatny, Salaheldin
	87 - Numerical simulation of enhancing coalbed methane recovery by RF heating with small spacing well pattern	254 - Real-Time Distributed Fiber Optic Sensing for Cement Sheath Integrity Monitoring	332 - Study on the influence mechanism of the absence cement sheath in salt-gypsum layer on casing	581 - Comparative analysis of critical bond strength parameters of neat Class G cement and fly ash enhanced cement to steel	1056 - Review of Remedial Cementing: Factors, Design Considerations, and Case Studies
	Liu, Rui*; Dong, xuelin; Gao, Deli	Su, Feiyu*; Feng, Yongcun; Li, Xiaorong; Li, Saxing	Zhu, Mingchi*; Chen, Xuyue	Potter, Corey M*; Meng, Meng; Eckert, Andreas; Zhang, Weicheng; Jones, Joshua	Youssef, Amir*; Mahmoud, Ahmed Abdulhamid; Elkatatny, Salaheldin

Petroleum Conventional	88 - Dynamic response and fatigue analysis of the Steel Catenary Riser carrying slug flow based on VFIFE method	282 - Kick Warning and Pressure Inversion Method Based on Wellhead Pressure Signal	335 - Numerical analysis for mechanical integrity of oval shape wellbore in creep formation	735 - Dual-Target Predictive Intelligence Model for Predicting D90 Particle Size and Total Concentration of Lost Circulation Materials	1059 - Real-Time Rate of Penetration Prediction for Motorized Bottom Hole Assembly Using Artificial Intelligence
	Zhang, Guangrui*; Wang, Yanbin; Gao, Deli	Duan, Shiming*; Song, xianzhi; Yao, Xuezhe; Xu, Zhengming; Zhou, MengMeng; Zhu, Zhaopeng; Cui, Yueqi	Zhu, Mingchi*; Chen, Xuyue	Shang, Guanyi*; Yang, heng; Feng, Yongcun; Li, Xiaorong	Youssef, Amir*; Elkatatny, Salaheldin; Abdulraheem, Abdulaziz; Rahmatullah, Idham Kholid
	132 - Enhancing Intelligent Drilling Rate of Penetration Prediction Modeling through Anomalous Drilling Data Handling Methodology	315 - Hybrid strategies for interpretability of Rate of Penetration prediction: automated machine learning and SHAP interpretation	370 - Numerical investigation on the rock breaking performance of special-shaped PDC cutters combination	993 - Experimental Study on Rock-Breaking Characteristics of Conglomerate by Special-Shaped PDC Cutters under High Confining Pressure	1076 - Assessment of Geomechanical Properties of Fault Damage Zones Based on Numerical Modeling
	Ye, Shanlin*; Zhu, lin; song, xianzhi; Liu, Zihao; Zhu, Zhaopeng; Pan, Tao	Ma, Zhengchao; Hsu, Maoya; Hu, Hao; Wang, Tianyu*; Zhou, Xiaoxia; Li, Gensheng; Tian, Shouceng	Jin, Ming*; Chen, Xuyue; Li, Geng chen; Cao, Xiaohua Xiao; Wang, Rong; zhu, mingchi	Chen, Xiaoyuan; Li, Xinlong; He, Wenhao*; Wang, Wei; Huang, Zhongwei; Shi, Huaizhong; Xiong, Chao; Chen, Han; Chen, Zhenliang	Dias, Francisco Corrêa; Quevedo, Roberto*; Roehl, Deane; Carvalho, Bruno
Petroleum Unconventional	49 - Physical Simulation Experiment Research for Hydraulic Fracturing in Tight Sandstone Reservoir under Different Stress Conditions and Nature Fracture Combinations	224 - Analysis of the influence of defective cement ring on casing stress during CO2 geological storage	562 - Fracture Morphology in Glutenite Reservoirs Stimulated by Radial Borehole Fracturing	738 - Study on the influencing factors of matrix acidification effect in carbonate reservoir	880 - Numerical research of fracture initiation in hydrate reservoirs based on XFEM
	Fan, Pingtian; Liu, Yuetian; lin, Ziyu*; Wang, Jingru; He, Yuting; Zhang, Bowei	Li, Hui*; Li, Jun; Shan, Liping; Liu, Jinlu; Zhao, Xing	Yong, Yuning*; Tian, Shouceng; Guo, Zhaoquan; Wang, Tianyu; Wei, Chengxiang; Zhai, Jiaheng; Sheng, Mao	Zhang, Liangjun*; Xu, Hualei; Kangjia, Zhao; Wang, Jie; Jiang, Houshun	Wang, jinshan Z; Zhang, Yiqun*; Hui, Chengyu; Ren, Yingqiao; Cui, Xu; Jiang, Yiquan; An, Youkeren; Huang, Haochen

Petroleum Unconventional	69 - Proppant Migration and Distribution Simulation in Tortuous Fractures with Gradually Narrowing Walls	232 - Experimental study on interaction behavior between caves and acid fractures in fractured-vuggy carbonate rock	563 - Coupled Thermo-Hydro-Mechano-Damage finite element analysis of hydraulic fracturing considering grain boundary weakness and fluid-rock heat transfer	754 - Study on rock mechanics microscopic heterogeneity characterization, fracture propagation simulation and Frac-ability prediction of complex mode conglomerate in Mahu Block	886 - Study on the Mechanism of Wellbore Instability in Complex Shale Formations Considering Fault Influence: A Case Study of Fushan Oilfield
	Yan, Pengyin*; Wang, Zhiming	Zheng, Zhenquan*; Hou, Bing; Zhao, Zhiqiang	Ikeda, Shotaro*; Ogata, Sho; Yasuhara, Hideaki; Kishida, Kiyoshi	Liu, ShiKang*; Zou, Yushi; Zhang, Shicheng; Ma, XinFang; Zhang, Zhaopeng; Zhang, Xiaohuan; Li, liu; Zhao, Ziwen	Yu, Xing*; Wang, Haizhu; Huang, Qirui; liang, Tongyao; Wang, Bin; Stanchits, Sergey; Cheremisin, Alexey ; Fan, Xuhao; Zhang, Yunpeng
	70 - Four-dimensional stress evolution and optimization of child well fracturing parameters in multi sub-layers shale gas reservoir	347 - Experimental study on the size effect of fracture process zone of mixed mode I-II crack in sandstone	596 - Characterization of non-uniform propped fractures and critical aperture strain caused by the stresses in conglomerate reservoir	781 - Correlations between microscale dimensions and elastic Anisotropy in Shale	898 - Numerical Simulation of Hydraulic Fracture Vertical Propagation in Bedded Shale by Phase-Field Method
	Yang, Haixin*; Tang, Xuanhe; Zhu, Haiyan	Sun, Bin*; Zhang, Guangqing; Luo, Senlin; Cai, Dingshan; lin, Yansen; Zhou, Dawei	Du, Buge B*; Zhang, Guangqing; Liu, Kaixin; Wang, Xiaohan; Xu, Changzhuo	Zhu, Junfeng*; Zhang, Guangqing; Zhang, min	Tian, Ganghua*; Wang, Haizhu; Wang, Bin; shi, mingliang; Zheng, Yong

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	100 - Numerical simulation of flow field and erosion characteristics in hydraulic fracturing tool	393 - Simulation of Elastic Waves Transmission and Attenuation Considering Fluids Properties Change and Radiator of Branches Well	634 - Modeling of immiscible fluid flow in mixed-wetted porous media using the lattice Boltzmann method	855 - High-precision Triple Multiscale Model Characterizes The Complex Pore-fracture System Of Continental Shale Reservoir	986 - Research on the Characteristics of Supercritical CO2 Shock Fracturing Flow Field Based on Numerical Simulation
	Song, Xianzhi; Cui, Yueqi*; Zhou, MengMeng; Xu, Zhengming; Zhu, Zhaopeng; Li, Gensheng	Tan, Yawen*; Tian, Shouceng; Zhang, Yiqun; Wang, Tianyu; Wang, Fei	Zhang, Shengting; Li, Jing; Wang, Tianduoyi*; Zhu, Qingyuan; Wu, Keliu; Chen , Zhangxin	Li, Haoyu*; Wang, Wendong; Su, Yuliang; Deng, Yuxuan; Li, Dongxia; Li, Lei; Hao, Yongmao	Zeng, Changhui*; Mu, Zongjie; Wang, Haizhu; Xu, Chuanyou; Yi, Yonggang; Stanchits, Sergey; Cheremisin, Alexey ; Popov, Yury
	201 - Study on microscopic pore-fracture structure of metamorphic buried hill reservoirs	483 - Experimental study on the formation mechanism of complex fracture network during supercritical CO2 fracturing in Jimsar oil field	719 - Simulating Cyclic Hydraulic Injection-Induced Fatigue with an Improved Discrete Element Method Model	861 - Study on Fracture Propagation Law of Cement Sheath Interface during Fracturing Process	1125 - Foam-Based Hydraulic Fracturing From Lab to Field Applications: A Brief Review
	Wang, Xifeng*; Huang, Shijun; Zhao, Fenglan; Liu, Xirong	Li, Lizhe*; Hu, Longqiao; Tang, Weiyu; Hou, Xiaoyu; Wang, Bo; Zhou, Fujian	Xia, Chang*; Zhao, Qi	Lai, Chenxi*; Feng, Yongcun; Su, Feiyu; Gu, Chenwang; Li, Xiaorong	Abdelaal, Ahmed*; Saleh Aljawad, Murtada; Al-Shehri, Dhafer

Petroleum Unconventional	223 - Failure Mechanism Analysis of CO2 Flooding Wellbore Tubing	560 - Characteristics of Hydraulic Fracture height Growth in Deeply Layered Coalbed-Mudstone Reservoir	736 - Numerical Simulation Study of Proppant Migration and Settlement Behavior in Complex Fractures	869 - Experimental Study on Fracture Propagation Characteristics of CO2 Pre-fracturing in Shale Oil Reservoir	1152 - Microscale Mechanical Anisotropy of Shale
	Li, Hui*; Li, Jun; Shan, liping; Liu, Jinlu	Wang, Zhiwei*; Sheng, Mao; Ren, Lejia; Deng, Chao; Wang, Bo; Wang, Jia	Kangjia, Zhao*; Jie, Wang; Hualei, Xu; Houshun, Jiang	Wu, Hua*; Wang, Xiaoqiong; Ge, Hongkui; Song, Jiaxin; Hou, ShuoYang; He, Jixiang; Wang, Zhenyu	Rahmani, Fereshteh; Espinoza, Wilson*
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	Zhang, Xin*; Xia, Xiang; Li, Haibo; Fu, ShuaiYang	Habibi Babadi, Ahmadreza*	Kayen, Robert*; Russo, Brittany	Nishimura, Tsuyoshi*; Kohno, Masanori; Kawasaki, Takumi; Kimura, Koutaro	Boeut, Sophea*; Fujii, Yoshiaki; Sieng, Peou; Kaing, Sainglong; Badrul Alam, A. K. M.; Dzimunya, Nevaid Z; Oudom, Sokly; Boeut, Sopak
	265 - A Discussion of Traditional Rock Slope Stability Analysis Methods with a Technical Evaluation of a Former Quarry Site in Jessup, Pennsylvania	668 - An analytical Solution for Deep Circular Tunnels in Rock Based on GZZ Criterion	780 - An Ontology of Risk Management for Tunnel Construction	1024 - Rockfall Occurrence and Precipitation Modeling to Simulate Correlation Patterns	1198 - Design And Implementation of Innovative, Openable, In-Trench Rockfall Catchment Fences for Improvement of Worker Safety in Steep Slope Pipeline Construction
	Fleischer, Noah*; Thomas, R. Drew	Chen, Haohua*; Zhu, hehua; Zhang, lianYang	Xue, Yadong; Hou, YingCai*	Williams, Frances A*; Walton, Gabriel	Hajen, Christian; Philip, Lucy*; Gesche, Jayden; Burgin, Andrew; Nichols, John; Bichler, Ahren

Civil Track	470 - Influence of specimen shape on new simple shear test using rock prism specimen Sato, Ikuri*; Togashi, Yota; Kotabe, Haruhiko; Hatakeyama, Ken; Osada, Masahiko	220 - CFD Simulation to Study the Grouting Behavior in Rough-Walled Fractures Miyoshi, Takako*; Yasuhara, Hideaki; Kishida, Kiyoshi			
Mining	43 - A Numerical Solution to the Flow-Induced Vibration of a Hanging String in a Storage Cavern Chieslar, Jack D*	357 - A brief description about all the steps related to the development of lattice- spring-based synthetic rock mass (LS-SRM) for slope stability analysis. Paganin Neto, Miguel*; lima Rasmussen, Leandro	554 - Tackling Data-limited Rock Mechanics Models Maleki, Hamid*	775 - Axial stiffness evolution of rock observed during uniaxial and triaxial compression strength tests Gaines, Steven*; Diederichs, Mark S	982 - Appraisal of Boreability Characteristics of Rocks to Estimate the TBM Advancement Yagiz, Saffet*; Yazitova, Aitolkyn; Smirnov, Gleb; Hassanpour, Jafar; Thyagarajan , Vinayak
	44 - Sonar Surveys/Nurb-Surfaces/Adaptive, Body-Fitted Meshing for Large-Scale Modeling of Multiple Solution Mines Chieslar, Jack D*	360 - A Comparative Study of Preparation Methods, Weighting Agents, and Temperature on Quality of Imaging Fluid in Near Borehole Imaging Technology Abbasian, Leila*; Akindele, Oluwatimilehin Mary ; Abugharara, Abdelsalam N.A.; Butt, Stephen	558 - Case Study: Investigation, Analysis and Mitigation of Rock Instability for a Potential Slope Failure in Highly Weathered Granite at Pinto Valley Mine in Arizona Ureel, Scott*	801 - Thembelani and Khuseleka Mines in the Bushveld Igneous Complex's Western limb in South Africa Masethe, Richard RT*; Durapraj, Shane; Adoko, Amoussou; Ngwenya, Mbulelo; Zvarivadza, Tawanda; Modika, Moses	1009 - Assessing the variability in direct shear testing interpretation for sets of natural fractures Franco M, Maria A*; Potter, Julia; Meyer, Benjamin J

Mining	54 - Proactive Identification of Adverse Geological Structure in a Deep Mine Environment	438 - Intact rock properties of the Rotonda Granite for the PRECODE Project in the BedrettoLab	582 - Analyzing the effect of bolt spacing on coal rib stability through numerical simulation	835 - Chipping mechanisms in rotary-percussive drilling: Experimental insights into the role of the median crack as precursor of the dynamic fragmentation process.	1069 - Methodology Development to incorporate anisotropy in slope stability analysis at Los Bronces mine®
	Hall, Alex K*; Simser, Brad; Marshfield, Stephen; Howell, Lloyd; Cai, Ming; lindsay, Jared	Perras, Matthew*; Golabchi, Yousef; Bahrani, Navid; Hamdi, Pooya; Amann, Florian	Xue, Yuting*; Mohamed, Khaled M	Aising, Jorge*; Gerbaud, Laurent; Sellami, hedi; Sénéchal, Pascale ; Moonen, Peter ; Ugarte, Ignacio	Cordova, Manuela *; Vallejos, Javier; Velasquez, Jorge i
	71 - Experimental and numerical investigations into fracturing process of brittle rocks	481 - Integrating stress fracturing and bulking monitoring for deformation-based ground support design calibration in a deep caving operation	670 - Geotechnical Hazards in Deep Mines: Case Studies of Seismicity and Boundaries Changes	864 - Numerical Simulation of Toppling Failure in Sedimentary Rock Slope Cuts with Alternating Soft and Hard Bands	1083 - Numerical analysis for the design assessment of underground mine operations
	Khadivi, Babak*; Masoumi, Hossein T	Primadiansyah, Avesiena A*; Eberhardt, Erik; Campbell, Ryan; Firmanulhaq, Sandi; Silaen, hendri; Perdana, Anton	Masethe, Richard RT*; Leite, Ana RS; Landry, Dave	Ashraf , Mohsin; Emad, Muhammad; Waqas, Muhammad*; Moazzam, Hamza	Cammarata, Giuseppe*; Bui, Tuan Anh; Brasile, Sandro
	85 - A comprehensive comparison between discrete fracture network and generalized anisotropic material behavior for modeling jointed rock mass	500 - Analysis of Rockfall Risk Using Image Analysis and Data-Driven Models	684 - Effect of Cyclic Freezing and Thawing on Permeability and Mechanical Properties of Red Sandstone under Triaxial Compression Condition	867 - Examining the Anisotropic Strength of Plain and Steel Fiber Reinforced Shotcrete	1114 - Development of Chilean open stope empirical stability database using MineRoc and their comparison with literature
	Ko, Byung Hun*; Moallemi, Sina; Dang, Kien; Yacoub, Thamer	Ghahramanieisalou, Milad*; Sattarvand, Javad; Peik, Bijan; Battulwar, Rushikesh; Abbasi, Behrooz	Liu, Bo; He, Yanqing*; Han, Yanhui; Li, Wenhao; Zeng, Jingyuan	Khan, Muhammad; Waqas, Muhammad*; Emad, Muhammad; Tahir, Muhammad	Vallejos, Javier; Retamal, Felipe; Barberan, Antonio; Velasquez, Jorge i*

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Interdisciplinary	35 - An Innovative Combination of Scratch Test and Weibull's Statistical Fracture Theory Zhang, Yazhou*; Jin, Yan; Sun, Xiuxia; Zeng, Ping	287 - Characterization of the accuracy by AIC picking and manual picking with the decaying of event magnitude Kong, Dekai; Wang, Chengyu; Lin, Qing; Xiong, Qiquan*; Knippel, Erik P; Hampton, Jesse	635 - Correlation of Static and Dynamic Mechanical Properties of Australian Sedimentary Rocks Li, Jimmy Xuekai; Chen, Shuai; Flottmann, Thomas; Huang, Yixiao; Saber, ErFan; Chen, Zhongwei*; Qian, Sijin	952 - Where does the energy go in percussion drilling? FDEM's answer Yang, Xiaowei*; Xiang, Jiansheng; Naderi, Sadjad; Wang, Yanghua; Aising, Jorge; Ugarte, Ignacio; Gerbaud, Laurent; Latham, John-Paul	1029 - Application of Machine Learning Algorithms for Minerals Volume Prediction in Unconventional Reservoirs Using Conventional Well Logs Bettir, Nassima*; Mellal, Ilyas; Dehdouh, Abdesselem; Rabiei, Minou; Malki, Mohamed Lamine; Allam, Lotfi MY
	161 - A review of the anelastic strain recovery (ASR) technique for in-situ stress measurements: A suggested test protocol and further challenges Lin, Weiren*; Sakai, Yuhi; Kamiya, Nana; Cao, Yupeng; Ishitsuka, Kazuya; Sun, Dongsheng; Zhang, Chongyuan; Nagano, Yu	486 - Thermal-mechanical-chemical coupling analysis of coal rock in underground pyrolysis conversion Xue, Junjie; Chen, Yanpeng; Zhao, Yufeng; Dong, Zhen*; Chen, Hao; Zhang, Mengyuan; Zhang, Mengyuan	697 - Coupling between weathering and fracture: finite element modeling of granite weathering using cohesive elements Xu, Tingting*; Arson, Chloe	1005 - Destruction of Rock Microstructure: an Experimental and Numerical Modelling Study of High-Pressure Water Jet Rock Cutting under Subsurface Confining Pressure Conditions Xiang, Jiansheng; Naderi, Sadjad; Gerbaud, Laurent; Velmurugan, Naveen; Sellami, hedi; Latham, John-Paul*	1085 - Improved Shale Volume Prediction Using Machine Learning Algorithms in Complex Reservoirs Bettir, Nassima*; Dehdouh, Abdesselem; Mellal, Ilyas; Kareb, Ahmed; Rabiei, Minou

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