

Technical Program for 60th US Rock Mechanics/Geomechanics Symposium, Tucson, AZ, 2026					
Sunday, June 21 6:30 pm - 7:30 pm	Distinguished Lecture: John McLennan "Hydraulic Fracturing Then and Now: Always a Game-Changer"				
	KIVA BALLROOM				
Monday, June 22	MINING	INTERDISCIPLINARY	GEOTHERMAL	PETROLEUM CONV	PETROLEUM UNCONV
	SALON D	SALON F	SALON J	SALON L	SALON C
	MS01: Geotechnical Monitoring, Remote Sensing and Data Analytics	IS01: Fundamental and Experimental Rock Mechanics - I	GS01: Frontier Observatory for Research in Geothermal Energy (FORGE)	PC01: Drilling and Completion: Design and Operation	PU01: Reservoir Characterization
8:30 am - 8:45 am	23 (Justine Ealy): The Missing Link: The Importance of Secondary Communications with Slope Monitoring Radar Units	439 (Zhi Ye): Investigation of Fracture Slip under Sealed and Unsealed Conditions in Direct Shear Tests	292 (Pengju Xing): Numerical Evaluation of Triple-Well Circulation Scenarios for the Utah FORGE EGS Reservoir	22 (Yanhui Han): Impact of Natural Fractures on Safe Drilling Mud Weights	38 (Chunfang Meng): A Novel FEM Approach to Evaluate In-situ Stresses in A Growth Fault System
8:45 am - 9:00 am	278 (Jon Leighton): Non Persistent Scatterer InSAR	48 (Grant Goertzen): A New Device for Determining the Direct Tensile Strength of Intact Rock with Comparisons of Standard Test Methods Using Boise Sandstone	347 (Matthew McLean): The Role of Natural Fractures in Reservoir Response to Stimulation: Coupled Modeling of Utah FORGE	289 (Shahla Feizi Masouleh): Coupled Poro-Mechanical Modeling of Drilling and Cementing: Implications for Wellbore Integrity	527 (Vishesh Bhadriya): Experimental Investigation of Stress Shadow around Propagating Fluid-driven Dractures
9:00 am - 9:15 am	605 (Julia Potter): Development of Weather-Informed TARPs for Rockfall Management in Open Pit Mines	97 (Grant Goertzen): Assessment of Tensile Strength and Acoustic Emission Characteristics of Dry and Saturated High Porosity Boise Sandstone	386 (Mahmoud Abdellatif): Analytical Modeling of a Negative Sorbing Tracer Pulse Test with Significant Background Concentration at the Utah FORGE Geothermal Site	588 (Perapon Fakcharoenphol): Reservoir Calcite Nodule Impact on Deepwater Field Development	75 (Yanhui Han): Characterization of Rock Mechanical Properties Using Numerical Modeling Technique
9:15 am - 9:30 am	121 (Millicent Oppong): Emerging Trends in Optical Borehole Imaging: 3D Visualization, AI Integration, and Future Directions	182 (Tushar Bhandari): Finite Element Calibration of Grouted Rock Joint Stiffness Using Full-Field FE-DIC Displacement Measurements	489 (Ghoulam Ifrene): Fiber-Optic Monitoring of a Single-Well Huff-and-Puff Test at Utah FORGE	727 (Andreas Michael): Two Educational Kick-Circulation Exercises for Dynamic Borehole-Integrity Management in Offshore Wells with Subsea Stacks	645 (Jiaming Li): Laboratory Measurements of Anisotropy and Strain Localization in Shales Using Distributed Fiber-Optic Sensing
9:30 am - 9:45 am	280 (Zach Aglioutantis): Predicting Ground Vibrations from Blasting Using Geophysics Methods and Models	288 (Farid Shabani): Effect of Tailings-Based Supplementary Cementitious Materials on the Mechanical and Fracture Properties of Mortar Specimens	637 (Prakhar Sarkar): THMC Modeling of Mechanical and Hydraulic Property Evolution Driven by Geochemical Reactions in Utah FORGE EGS Reservoir	450 (Max Millen): Wellbore Stability Geomechanics in Depleting Coal Reservoirs	678 (Wei Yu): Comparison of Well Performance for Complex and Simplified Fracture Geometries Using Coupled Hydraulic Fracturing-Reservoir Simulation
9:45 am - 10:00 am	517 (Osvaldo Vallati): xCell Cyclops Case Studies in U.S. Mining Operations	279 (Guanyi Lu): Experimental Investigation of Anisotropic Creep in Rocks Using a Novel Laboratory Apparatus	661 (Guoxiang Liu): Machine Learning Coupled Fracture Network Analysis: FORGE Case Study		37 (Jon Zhang): A Novel Method for Pore Pressure Prediction and its Applications in Unconventional Reservoirs
10:00 am - 10:20 am	Coffee Break, Exhibits, Posters GRAND BALLROOM FOYER / SALON B				
10:20 am - 10:50 am	The Haimson Keynote: Roman Makhnenko "How Shales Help Us Understand Coupled Processes in the Subsurface"				
	KIVA BALLROOM				
Monday, June 22	MINING	INTERDISCIPLINARY	GEOTHERMAL	PETROLEUM CONV	PETROLEUM UNCONV
	SALON D	SALON F	SALON J	SALON L	SALON C
	MS02: Rock Testing, Material Characterization and Failure Criteria	IS02: Fundamental and Experimental Rock Mechanics - II	GS02: Geothermal: Laboratory Experiments	PC02: Wellbore Geomechanics	PU02: Rock Mechanics and Production
11:00 am - 11:15 am	55 (Rulin Yang): Strain-Based Failure Criterion Based on Measured Failure Strain from Triaxial Rock Testing for Geomechanics and Rock-Blast Modeling	349 (Ryan Hurley): Microstructure-Resolved Rock Mechanics Modeling Informed by X-ray Tomography and Diffraction Microscopy	118 (Guanyi Lu): Experimental Investigation of Natural and Ceramic Proppant Breakage and its Implications for Fracture Conductivity Evolution in Enhanced Geothermal Systems	77 (Laurent Louis): A Structure-based Critical Porosity Framework for Mechanical Properties Modeling	652 (Evan Kias): Poisson's Ratio Variations in the Uinta Basin and the Effect on Stress and Fracture Growth
11:15 am - 11:30 am	137 (Jack Touseull): Improved Method for Verifying Rock Compression Test Specimen Tolerances	494 (Stephanie Wong): Crystallization Pressure: Nucleation and Growth of Sodium Sulfate	227 (Fanlin Ling): Slip and Frictional Evolution of Saw-cut Fractures in Veined Granite during Fluid Injection	721 (Andreas Michael): Fluid-Driven Fracture Initiation from Perforated Horizontal Wells: The Effects of Perforation Geometry and Other Influencers	530 (Lichun Jia): Prediction of Maximum Horizontal Stress Based on Transverse Drilling-induced Tensile Fractures
11:30 am - 11:45 am	389 (Sevda Dehkoda): Understanding and Managing Data Variability in Mining Applications	364 (Andy Rathbun): An Updated Relation for Predicting Strength from Leeb Hardness	506 (Nate Opperman): Laboratory-scale Hydraulic Fracture Analysis with Distributed Fiber Optics	294 (Foued Badrouchi): Coupled Geomechanics and Hole-Cleaning Surveillance for Forward and Inverse Modeling and Quantifying Borehole Breakouts	304 (Qianjun Liu): Machine Learning-Based Inversion of Natural Fracture Properties from Microseismic Data during Hydraulic Fracturing
11:45 am - 12:00 pm	139 (Jack Touseull): Overlooked Corrections for Intact Rock Direct Shear Testing	482 (Frank Lloyd-Mills): Modeling Shear Behavior at Shale-Sandstone Interfaces Using FDEM: Implications for Excavation Stability	521 (Wenfeng Li): Durability and Hydraulic Conductivity of Proppants under Utah FORGE Reservoir Conditions	733 (Paschalyn Nyavor): Comparative Evaluation of Recycled and Commercial Glass fibers in Lightweight Oilwell Cement	238 (Jimmy Xuekai Li): Impact of Dewatering and Reservoir Depletion on Mechanical Properties of Australian Coal
12:00 pm - 12:15 pm	291 (Long Fan): AFM Characterization of Thermally Induced Changes in Surface Morphology and Nanomechanical Properties of Granite Fault Gouge	493 (Laxman Kafle): Evolution of Discharge Behavior and Fracture Development During Repeated Electrohydraulic Pulse Fracturing	545 (Pabasara Kumari Wanniarachchige): Thermo-poro-elastic Framework for Laboratory-scale Hydraulic Fracturing: Influence of Temperature and Fluid Type	340 (Danzhu Zheng): Self-Healing with Permeability Restoration by Alkali-Activated Geopolymers for Enhanced Well Integrity	157 (Qilong Fang): Real-time Prediction of Lost Circulation Risk in Longmaxi Formation of Deep Shale Gas Reservoir
12:15 pm - 12:30 pm	104 (Carol Mgiba): Tensile Strength Characterization of Martian Regolith-Based Rocks	602 (Kyungsoo Han): Effect of Mineral Fabric and Veins on Fracture Geometry and Surface Roughness	427 (Yerkezhan Madenova): High-viscosity Oil-induced Shearing in a Lab-scale Fault: Lessons Learned towards Shear Fracture Caging Experiments	680 (Wei Yu): Modeling Water Intrusion Through Natural Fracture Pathways in Naturally Fractured Gas Reservoirs	271 (Xinrui Wang): High Temperature Fracture Toughness and Evolution of Ultra-Deep Tight Sandstones
12:30 pm - 1:30 pm	Lunch				
1:30 pm - 2:20 pm	KEYNOTE: Steve WaiChing Sun "Representation Learning Toward a Constitutive Meta-Model for Geomaterial Families"				
	KIVA BALLROOM				

Monday, June 22	Showcase: The Past and Future of Hydraulic Fracturing SALON C			Showcase: Field Imaging Techniques CATALINA BALLROOM	
2:30 pm - 2:52 pm	778 (Emmanuel Detournay): Fluid-Driven Fracture: Recent Results			760 (Ettore Biondi): Distributed Acoustic Sensing for High-resolution Subsurface Imaging	
2:52 pm - 3:15 pm	777 (Roberto Suarez-Rivera): Hydraulic Fracturing: Lessons from Experience and Directions for the Future			761 (Michael Oristaglio): Project TrapRock: Using Remote Sensing to Characterize the Shallow Subsurface for Permanent Carbon Sequestration	
3:15 pm - 3:37 pm	780 (Mukul Sharma): Hydraulic Fracturing: What we have Learnt and What Challenges Remain: A 40-year Perspective			766 (Julia Correa): Autonomous and Continuous Active Seismic Monitoring for Fracture Characterization	
3:37 pm - 4:00 pm				783 (Weiqiang Zhu): Deep Learning and Fiber-Optic Sensing for Earthquake Monitoring and Subsurface Imaging	
4:00 pm - 4:15 pm	Coffee Break, Exhibits, Posters GRAND BALLROOM FOYER / SALON B				
Monday, June 22	MINING	INTERDISCIPLINARY	STORAGE SEQUESTRATION	GEOTHERMAL	CIVIL
	SALON D	SALON F	SALON J	SALON L	SALON C
	MS03: Cemented Backfill, Pillar Stability and Geotechnical Hazard Assessment	IS03: AI/ML Applications in Rock Mechanics	SS01: Subsurface Storage: Integrity and Containment	GS03: Geothermal Wells, Production Diagnostics, and Emerging Resources	CS01: Risk Assessment and Geohazards in Rock
4:15 pm - 4:30 pm	225 (James Frimpong): A Physically Interpretable Electrical Conductivity Model for Predicting Strength Evolution in Cemented Paste Backfill	160 (Mostafa Mobasher): Enhanced Coupled THMC Processes using DeepONet-Integrated Finite Element Neural Networks (IFENN)	296 (Athar Hussain): Resin Cement for CCS Well Applications	515 (Christopher Bremer): Anything but Dull: A Sensitivity Analysis of Worn Cutter Performance in Oil and Gas Versus Geothermal Lithologies	175 (Ruimin Feng): Re-evaluating Zahn-Roskies Fourier Descriptors for Advanced Particle Shape Analysis
4:30 pm - 4:45 pm	626 (Brian Arnold): Influence of Particle Size Distribution on the Fracturing Behavior of Cement Paste Backfill	430 (Shaziya Banu): Improving Micro-Mechanical Phase Mapping of Shale through Machine Learning and High-Speed Nanoindentation	436 (Meng Meng): Cement Initial Stress and Well Leakage Evaluation Using a Casing-Cement-Casing Coaxial Device	623 (Omar Hamdy): Evaluating Crushed Cuttings as Proxies for Intact Rock Mechanical Properties in Geothermal Systems.	20 (Candan Gokceoglu): Understanding the Effects of Devastating Earthquakes on Paleolandslides in Rock Masses using InSAR Analyses
4:45 pm - 5:00 pm	369 (Ashok Kumar): Predictive Assessment of Roof Fall Risk in Mechanised Depillaring Workings using Continuous Miner Technology	587 (Francisco Ferreira): Machine-learning Analysis of a large Triaxial Test Dataset on highly Heterogeneous Brazilian Pre-salt Limestones	110 (Claudia Sorgi): Coupled Workflow for CCS: Redefining Injection Design Through Flow-Stress-Controlled Operational Envelopes	236 (Rion Nakamoto): Numerical and Analytical Approaches to Production Logging in EGS using Fiber-Optic Thermal Slug Tracking	167 (Elizabeth Longar): Towards Rockfall Forecasting: Evaluation of Parameter Influences on Clustering Forward Rock Slope Motion from Lidar Monitoring Data
5:00 pm - 5:15 pm	659 (Stanley Miller): A Pragmatic Design Approach to Patterned Artificial Support for Rock Slopes	313 (Julio Rueda Cordero): Thermo-hydro-mechanical Modeling of Induced Fracture Propagation in Complex Carbonate Reservoirs	228 (Rohit Pandey): Multiscale Assessment of Wellbore Cement Integrity in Underground Hydrogen Storage	671 (Lucas Couderc-Avignon): Project Economics of Lithium Extraction from Southern California Geothermal Brines: A Techno-Economic Review	684 (Carlos Panura): Rupture Dynamics and Seismicity in Complex Fault Systems Under Triaxial Shear Testing
5:15 pm - 5:30 pm			739 (Kiseok Kim): Engineering the Geometry and Formation Timescale of Mineral Precipitation Geobarriers in Subsurface Storage Formations: A Theoretical and Numerical Characterization		252 (Sarbartha Sarkar): Experimental and Numerical Investigation of Hoek-Brown Based Dilation Parameter of Marble

Tuesday, June 23	MINING	INTERDISCIPLINARY	GEOTHERMAL	PETROLEUM CONV	PETROLEUM UNCONV
	SALON D	SALON F	SALON J	SALON L	SALON C
	MS04: Numerical Modeling and Computational Geomechanics	IS04: Fundamental and Experimental Rock Mechanics - III	GS04: Geothermal: Numerical and Theoretical Modeling	PC03: Field Scale Geomechanics: Characterization and Model Building	PU03: Hydraulic Fracturing - I
8:30 am - 8:45 am	557 (Eamonn Hancock): Identifying Dynamic Failure Modes Using Advanced Numerical Modelling	610 (Alireza Bahmanpour): Fracture Characterization of Mine Tailings-Based Geopolymers with Kaolin and Stag through Digital Image Correlation	164 (Qinglai Ni): Coupled Fluid-Flow and Geomechanics Modeling for Enhanced Geothermal Systems	675 (Matheus Carvalho Duarte): Integrating Acoustic Logs, Seismic Data, and Experimental Correlations for Geertsma Subsidence Sensitivity to Elastic Property Variability	344 (Anthony Peirce): Real-time-scale Hydraulic Fracture Monitoring using an Extended Kalman Filter-reduced Model
8:45 am - 9:00 am	511 (Wei Fu): From Fracture Interaction to Cave Response: A Multi-Scale DEM-FVM Framework for Modeling Hydraulic-Fracturing Preconditioning in Hard-Rock Caving	609 (Scott Cytlik): Analytical Model for Strength of Anisotropic Rock Under Direct Shear Loading	542 (Yuan Tian): Mitigating Induced Seismicity in Enhanced Geothermal Systems (EGS): Rate Strategies under Coupled Poroelastic and Fluid Pressure Effects	480 (Fatmir Likrama): Revisiting Estimation of Fracture Pressure Gradients from Data and Modeling: A Case Study in Offshore Eastern Canada	287 (Sabrina Ip): A Phase-field Model for Three-dimensional Hydraulic Fractures in Poroelastic Media
9:00 am - 9:15 am	667 (Dipson Pradhan): Evaluating the Effects of Alternating Strata and Soft Rock Thickness on Vertical Shaft Performance Using Finite-Difference Modeling	650 (Connor Siurek): Exploring the Effect of Shearing on Network Connectivity	584 (Jihoon Kim): Coupled Chemo-Thermo-Hydro-Mechanical Modeling: Mechanical Weakening and Stiffening Induced by Rock-Fluid Chemical Reactions	496 (Flavia Falcao): Integrated Methodology for Estimating Mechanical Properties from Log Data Insights from the Búzios Field	646 (Nassim Bouabdallah): Development of a True-3D Numerical Model for Fluid-Driven Fracture Initiations from Perforated Wells
9:15 am - 9:30 am	283 (Ravi Chandan Ray): Mine Design Optimization in a Clay-Filled, Steeply Bedded Limestone Rock Mass using Calibrated FLAC3D Modeling with a Ubiquitous-Joint Formulation	666 (Robert Choens): Intermediate Scale Oedometer Design for Consolidation of Rock Salt Rubble	598 (Qitao Zhang): Simulating Thermal Short-Circuiting in EGS: A Coupled Thermo-Hydro-Mechanical-Wellbore Approach	163 (Williams Dias): Thermo-Hydro-Mechanical Modeling of Annular Pressure Buildup in Exposed Salt Formations	76 (Liang Tiancheng): Proppant Transport and Placement in Complex Coal-Rock Fracture Networks Considering Bedding and Cleat Systems
9:30 am - 9:45 am	735 (Zach Agioutantis): Generating S-Pillar Equivalent Hoek-Brown Properties for Stone Pillar Strength Analysis using Finite Element Analysis	691 (Hyeontae Park): Investigation of Hydro-Mechanical Response and Self-Sealing Behavior of Shear Fractures in Clay-Rich Mudrock	651 (Israel Momoh): Parametric Study on Proppant Settling Under High-Pressure and High-Temperature Conditions	378 (Nubia González): Transient Behavior in Nonlinear Compressible Gas Flow: Implications for Sand Production	81 (Rashad Gulmammadov): Regional Synthesis of Rock Mechanical Properties for Predictive Geomechanics in the Montney Unconventional Play
9:45 am - 10:00 am	382 (Zachary Wedding): The Preliminary Development of Simplified Methodology for Modeling Groundwater Inflow for Longwall Mines	710 (Prabhav Borate): Linking Fault Roughness, Contact Evolution, Elastodynamic, and Acoustic Response During Laboratory Earthquakes.	501 (Angel Sanchez Barra): Geomechanical Simulation of Basement Rock to Predict the Brittle-Ductile Transition for De-risking Deep Geothermal Projects	381 (Emmanouil Parastatidis): Inverse Modeling of Displacement Using InSAR Data in the Delaware Basin, Texas	628 (Mohammad Nassiri): Understanding Fracture Closure Dynamics in DFITS: A Coupled Reservoir-Geomechanics Approach
10:00 am - 10:30 am	Coffee Break, Exhibits, Posters GRAND BALLROOM FOYER / SALON B				

Tuesday, June 23	MINING	INTERDISCIPLINARY	STORAGE SEQUESTRATION	PETROLEUM CONV	PETROLEUM UNCONV
	SALON D	SALON F	SALON J	SALON L	SALON C
	MS05: Ground Support: Systems, Materials and Field Performance	IS05: Constitutive Modeling and Geophysics	SS02: Subsurface Hydrogen Storage	PC04: Field Scale Geomechanics: Surveillance and Diagnostic	PU04: Hydraulic Fracturing - II
10:30 am - 10:45 am	235 (Grzegorz Smolnik): Innovations in Cable Bolting in a Hot and Seismic Mining Areas	161 (Mingzheng Wang): Modeling of Time-dependent Fracture of Brittle Rock under Tensile Loading	213 (Kai Zhao): Deformation of Rock Salt under the Combined Creep and Fatigue: Insights from DEM Modelling	385 (Xuehan Yin): Evaluation of Cavity Completion and Induced Micro-fractures for Production Enhancement and Caprock Stability of In-situ Recovery of Oil Sands Reservoirs	405 (Evgenii Kanin): Poroelastic Effects in the Steady-State Propagation of a Semi-infinite Hydraulic Fracture
10:45 am - 11:00 am	473 (Anusha Leyon Thattil): Effect of Aggregate Particle Size Distribution on Shotcrete Strength and Workability	147 (Tao Wang): Time-Dependent Stress-Deformation Behavior of Surrounding Rock in Bifurcated Tunnels Considering Stress Corrosion Effects	371 (Mahdi Haddad): Mechanical Integrity of Interbedded European Zechstein and US Delaware Basin Salts for Energy Storage	178 (Jose Consuegra): Geomechanical Model to Decode a Time-Dependent Failure in Shale Formations	478 (Roberto Suarez-Rivera): Input Uncertainties to Hydraulic Fracture Modeling
11:00 am - 11:15 am	616 (Marcelo Campos): A Risk-Based Framework for Predicting Squeezing Damage for a Deep Underground Mine	429 (Shaziya Banu): Mechanistic Modeling of Stress Corrosion Cracking in Quartz Phase of Quartz-Bearing Shale under Reactive Conditions	444 (Jeong Uk Bang): Bulk and Microstructural Response of Reservoir Rock under Hydrogen Flow	554 (Guilherme Righetto): Challenges and Lessons Learned During Drilling Through Mg-rich Clay Carbonate Rocks from Brazilian Pre-salt	355 (Akshay Dey): Phase Field Model for Simulating Hydraulic Fracture Propagation in Saturated Poroelastic Media around a Tunnel
11:15 am - 11:30 am	734 (David Cheung): Strategies for Supporting Weak Rock Mass in Underground Mining	109 (Dimitrios Papadomarkakis): Damage Monitoring in Rocks using the Spectral Entropy of Ultrasonic Waves	445 (Seunghee Kim): Experimental Investigation of Gas Flow, Breakthrough, and Wettability in Rock Samples from the Midcontinent Rift System (MRS) for Geological Natural Hydrogen Exploration	414 (Rima Alfaraj): In-Situ Rock Characterization and Stress Measurements: A Test Well Case Study in Stillwater, Oklahoma	570 (Mohammed Alameer): A Physics-Based and Logistic Regression Workflow for Predicting Fracture Initiation in Cemented Limited-Entry Completions
11:30 am - 11:45 am	731 (Hamid Maleki): Mechanics and Control of High Horizontal Stress in the United States Coal Mines	625 (Alexandra Clark): Exploring Seismic Wave Interaction with Intersecting Fractures	566 (Wenjing Li): Thermodynamic Behaviours Analysis on Feasibility of using Carbon Dioxide as Cushion Gas in salt Cavern Hydrogen Storage	540 (Richard Birchwood): Estimation of the Bulk and Shear Moduli from Pressuremeter Testing	512 (Ellie Johnson): Microseismic Network Analysis Reveals Stress Transmission Pathways During Hydraulic Stimulation
11:45 am - 12:00 pm	89 (Ernesto Maldonado): Analytical Methodology for Subsidence Prediction above Three-Dimensional Dipping Underground Coal Seams	707 (Asef Ishraq Sadaf): On the Relation Between the Elastic Nonlinearity of Crystalline Rocks and their Fracture and Bulk Micro-damage Properties	604 (Zhidi Wu): Numerical Evaluation of Salt Cavern Closure under Varying Depth and Cavern Pressure: FLAC vs. SafenCave	611 (Francisco Dias): Burial Effects on Fault Damage Zones: Numerical Modeling with a Hardening/Softening Elastoplastic Law	479 (Roberto Suarez-Rivera): Sensitivity Analysis of Parent Child Interactions
12:00 pm - 1:00 pm	Lunch				
1:00 pm - 1:50 pm	KEYNOTE: Joseph F. Labuz "Listening to Rock: Insights on Damage, Fracture, and Failure" KIVA BALLROOM				
Tuesday, June 23	Showcase: Quantifying Stability & Safety Margins in Rock Engineering SALON C		Showcase: Frontiers in Geothermal Energy CATALINA BALLROOM		
2:00 pm - 2:22 pm	776 (Mikayla Morfin): Implementation of Pre-splitting and Double Benching at Nevada Gold Mines Phoenix Operation		759 (Chloé Arson): The Role of Computational Geomechanics in the Design, Operation and Control of Enhanced Geothermal Systems for District Heating		
2:22 pm - 2:45 pm	773 (Derek Kinakin): Using Analysis Cases to Choose Design Acceptance Criteria and Determine Preferred Slope Configurations		762 (Ahmad Ghassemi): Some Geomechanics Aspects of Unconventional Geothermal & Petroleum Reservoir Stimulation		
2:45 pm - 3:07 pm	772 (Paolo Farina): Reducing Uncertainty in Open Pit Slope Stability using Advanced Analytics of Monitoring Data		774 (Sireesh Dadi): Integrated Geomechanical and Geophysical Characterization of the Project Cape EGS: Insights from Field-Wide Monitoring		
3:07 pm - 3:30 pm	771 (Bradley Lecomte): How Do You Know Your Catch Benches are Working? Evaluating Effectiveness with Automated Rockfall Detection		757 (Anna Rogers): Geomechanical Contributions to Recent Advances in Closed-Loop Geothermal Development		
3:30 pm - 4:00 pm	Coffee Break, Exhibits, Posters GRAND BALLROOM FOYER / SALON B				
4:00 pm - 5:00 pm	Panel Discussion: Building the Geomechanics Workforce: Attracting, Engaging, and Retaining Talent KIVA BALLROOM				

Wednesday, June 24	MINING	CIVIL	STORAGE SEQUESTRATION	GEOTHERMAL	INTERDISCIPLINARY
	SALON D	SALON F	SALON J	SALON L	SALON C
	MS06: Seismicity, Rockburst and Dynamic Geomechanics	CS02: Tunnels and Underground Structures	SS03: Subsurface CO2 Storage	GS05: Stress, Faulting, Fracture Modeling, and Subsurface Energy Storage	IS06: Emerging Topics in Geomechanics
8:30 am - 8:45 am	11 (Bo Hyun Kim): Dynamic Shear Behavior of Jointed Rock at Intermediate Rates: Insights for Seismic Mine Design	31 (Zixin Zhang): AI-Augmented and Physics-Informed Thrust-Vector Autonomy for Shield TBMs	150 (Loic Bethel Dje): Composite-Core Experiments on the Reactive Evolution of Shale-Sandstone Interfaces under Supercritical CO ₂	230 (Xiaoming Zhang): Fault Identification Using Multiple Event Catalogs from the Stimulation Operation at the Utah FORGE Site	134 (Edward Wellman): Spectral Mineral Identification in Support of Rock Strength Classification
8:45 am - 9:00 am	373 (Kris Hutton): Influence of Underground Mining Method on Seismicity Evolution	40 (Pooya Hamdi): Environmental Effects on Sub-Critical Crack Growth and Stress Corrosion in Rotondo Granite from BedrettoLab, Switzerland	716 (Sherilyn Williams-Stroud): Transmissivity for scCO ₂ on Faults Interpreted at the Decatur, IL Sequestration Site	420 (Nori Nakata): Stress Evolution during Enhanced Geothermal System Development at the Cape Modern and Utah FORGE Fields, Utah	388 (Olufemi Olorode): A Molecular Study of the Mechanical Properties of Gas Hydrates
9:00 am - 9:15 am	372 (Reza Noorani): Rock Burst Case Study at the Lac Des Iles Mine: Factors Controlling Drift Damage	491 (Rita Sousa): Probabilistic Face-Pressure Windows for EPB Tunnelling Under Dynamic Excavation	594 (Lang Liu): Shale Barrier Modeling and Evaluation with Eccentric Casing and In-situ Stress Anisotropy	672 (Ayyaz Mustafa): In-situ Stress Prediction in Subsurface Rocks at Utah FORGE Geothermal Site using Generative-AI and Machine Learning Algorithms	485 (Tiansheng Zhang): Effects of Serpentinization History and Grain Shape on Reaction Induced Crack Morphology
9:15 am - 9:30 am	558 (Eamonn Hancock): Quantifying Dynamic Demand for Ground Support Design	565 (Qi Zhang): Digital Tunnel Construction Based on Field Surrounding Rock Information Acquisition and Analysis under Complex Geological Conditions	54 (Assef Mohamad-Hussein): Subsurface Geomechanical Response to CO ₂ Sequestration in a Depleted Gas Reservoir	90 (Michał Kruszewski): Crustal Stress Variability and Fault Reactivation Potential in the Lower Rhine Graben and Adjacent Regions	636 (Cameron Mitchell): Geomechanical Calibration of Peridotites for Modeling Stimulation of Geological Hydrogen Production

9:30 am - 9:45 am	8 (Bo Hyun Kim): Fragmentation and Energy Balance of Two Mining Methods in a Deep Metal Mine in the United States	326 (Maria Petrova): Cluster-Based Rockfall Analysis Using High-Resolution LiDAR: A Case Study on a Rock Slope in Western Colorado	648 (Kiseok Kim): Poromechanical Measurements of Basalt and Mineralogical Evolution During CO2 Mineralization	146 (Tao Wang): Hydro-Grain-Texture Model: A Novel Meso-scale Hydraulic Fracturing Model for Crystalline rock	275 (Renan Souza): Mathematical Description of Stresses in a Circular Borehole
9:45 am - 10:00 am	368 (David Collins): Examples of Hazard Identification Using Induced Seismicity Monitoring and Analysis in Underground Mining	686 (Doandy Wibisono): Semi-Deterministic Underground Wedge Stability Analysis Incorporating Peripheral Joint Sets		606 (Tomas Bym): Numerical Modelling of Heat Storage Systems in Large Rock Caverns	644 (Talles Meneguim): Salt Caprock Mechanical Behavior during Production in the Brazilian Pre-Salt Hydrocarbon Reservoirs, Santos Basin
10:00 am - 10:30 am	Coffee Break, Exhibits, Posters GRAND BALLROOM FOYER / SALON B				
Wednesday, June 24	MINING	CIVIL	STORAGE SEQUESTRATION		
	SALON D	SALON F	SALON J		
	MS07: Slope Stability, Open Pit Design and Hydrogeology	CS03: Numerical Modelling in Geomechanics	SS04: Reservoir Characterization and Permanent Containment		
10:30 am - 10:45 am	416 (Stefano Utili): Optimal Slope Design in the Presence of Discrete Discontinuities	88 (Suet Lui Charlotte Yu): Effects of Jointing and Confinement on Rock Mass Deformability using Synthetic Rock Mass (SRM) Models: The Case of Hong Kong Granite	324 (Yong-Rak Kim): Micromechanical Properties of Avery Island Rock Salt by Integrating Nanoindentation with Finite Element Modeling		
10:45 am - 11:00 am	232 (Alejandra Garay Cortesi): A Framework for Geotechnical Assessment of Stress and Stability in Integrated Open Pit - Underground Mining	423 (Charles Crosby): An Algorithm for Rockfall Block Reconstruction from Point Clouds of Debris Fragments	96 (Maria Nikolinaou): Development of Non-fault-related Intracrustal Shear Zones		
11:00 am - 11:15 am	237 (Jesus Castillo Gomez): A Review on Hydro-Mechanical Degradation in Rock Masses: From Field Observation to Numerical Modeling	629 (David Potyondy): Simulating Spalling with Bonded-Particle Models	720 (Hoang Nguyen): In Situ Shearing Experiments Reveal How Fractures Enhance and Sustain Carbon Mineralization in Altered Peridotite		
11:15 am - 11:30 am	277 (Gisele Rudderham): The Model Prognosis - A Tool for Improving Numerical Analyses	538 (JeongHwan Yoon): Numerical Assessment of Borehole Stability and Spalling Behavior for Deep Borehole Disposal using the PFC2D-SNBV Model	748 (Guanlong Guo): A Smoothed Mohr-Coulomb-Rankine Model for Anisotropic Clays Based on a Microstructure Tensor Approach		
11:30 am - 11:45 am	94 (Ernesto Maldonado): Subsidence Risk Analysis of Property Overlying a Historic Coal Mine Using Probabilistic and Numerical Models	234 (Evan Lindenbach): Point Load Strength: Correlations to Uniaxial Compressive Strength and Use for RMR	91 (Michal Kruszewski): Crack Initiation of Rotondo Granite during the PRECODE Mine-by Experiment in the BedrettoLab		
11:45 am - 12:00 pm	42 (Gaobo Zhao): Hybrid Analytical-Numerical Calibration Framework for Surface Subsidence in Mountainous Multi-Seam Coal Mining		486 (Hyunbin Kim): Characterization of Thermal Volumetric Response of Dense Bentonite under Elevated Temperatures		
12:00 pm - 1:00 pm	Lunch				
1:00 pm - 1:50 pm	KEYNOTE: Felicia Weir "Engineering Geology as a Foundation for Mine Slope Design and Management" KIVA BALLROOM				
2:00 pm - 3:00 pm	Coffee Break, Exhibits, Posters GRAND BALLROOM FOYER / SALON B				
Wednesday, June 24	Showcase: AI & Data Science in Rock Mechanics SALON C		Showcase: The Role of Subsurface Geomechanics in the Energy Transition CATALINA BALLROOM		
3:00 pm - 3:22 pm	767 (Domenica Cambio): Machine Learning Applications for Geotechnical Data Collection		765 (Stanislav Glubokovskikh): From Wells to Basins: Geophysical Monitoring of Rock Mechanics Effects during CO ₂ Storage at Scale		
3:22 pm - 3:45 pm	775 (Tom Meuzelaar): Machine Learning Use Cases for Predicting Mine Material Characteristics		779 (Vincenzo De Gennaro): How Coupled Modeling and AI are Shaping Subsurface Workflows for the Energy Transition		
3:45 pm - 4:07 pm	763 (Beverly Yang): Learning from Machine Learning: Key Takeaways for Machine Learning Applications to Rock Mass Characterization and Classification		770 (Eva Schill): Comprehensive Subsurface Technology Development and Resource Management		
4:07 pm - 4:30 pm	768 (Josephine Morgenroth): From Problem to Product: Lessons Learned Commercializing Digital Tools in Rock Engineering		758 (Maria Nikolinaou): Geomechanics in the Energy Transition: Importance of Appropriate Material Laws		