

47 U.S. Rock Mechanics Geomechanics  
2013 San Francisco

print date: 6/8/2013

Paper ID	Day	Time	Session #	Session Name	Corresponding Author	Final Title	Corresponding Author
317	Monday 24 June	8:00 am - 9:30 am	1	Experimental Rock Mechanics I - Shale and Mudrocks	Munir H. Adlin	Experience Using a Novel 45 Degree Transducer to Develop a General Unconventional Shale Geomechanical Model	Munir H. Adlin
519	Monday 24 June	8:00 am - 9:30 am	1	Experimental Rock Mechanics I - Shale and Mudrocks	Erling Fjær	Strength anisotropy of Mancos shale	Erling Fjær
332	Monday 24 June	8:00 am - 9:30 am	1	Experimental Rock Mechanics I - Shale and Mudrocks	Brian R Crawford	Generating Mechanical Stratigraphy in Layered Rock Masses Using Numerical Averaging of Cohesive-frictional Strength	Brian R Crawford
419	Monday 24 June	8:00 am - 9:30 am	1	Experimental Rock Mechanics I - Shale and Mudrocks	Sherif Adel Yahia Akl	Using Asymmetric Yield Surfaces to Model Material Anisotropy	Sherif Adel Yahia Akl
651	Monday 24 June	8:00 am - 9:30 am	1	Experimental Rock Mechanics I - Shale and Mudrocks	Richard Wan	Laboratory and Constitutive Modeling of Colorado Shale at High Pressure and Temperature	Richard Wan
338	Monday 24 June	8:00 am - 9:30 am	1	Experimental Rock Mechanics I - Shale and Mudrocks	Florian Amann	Brittle failure processes in veined clay rock with large strength contrasts between vein and matrix	Florian Amann
281	Monday 24 June	8:00 am - 9:30 am	2	Mine Seismicity	Kathryn Dehn	Expansion, performance, and improvement of the rock burst monitoring system at the Coeur, Galena, and Caladay mines, Wallace, ID	Kathryn Dehn
450	Monday 24 June	8:00 am - 9:30 am	2	Mine Seismicity	Jean-François Dorion	Implementation of a seismic system at Niobec mine	Jean-François Dorion
661	Monday 24 June	8:00 am - 9:30 am	2	Mine Seismicity	Trevor G Carter	Application of Fault Stability Analysis Techniques for Design of Deep Engineering Projects	Trevor G Carter
297	Monday 24 June	8:00 am - 9:30 am	2	Mine Seismicity	cheowchan leelasukseree	Induced Seismic Force Reduction Using Air Deck Blasting at Mae Moh Mine, Thailand	cheowchan leelasukseree
331	Monday 24 June	8:00 am - 9:30 am	2	Mine Seismicity	Quanjie Zhu	An improved and optimized positioning method of microseismic source in mining	Quanjie Zhu
221	Monday 24 June	8:00 am - 9:30 am	3	CO2 Sequestration and Utilization	Mirhamed Sarkarfarshi	A Bayesian approach to mitigate parameter uncertainty in carbon dioxide sequestration models	Mirhamed Sarkarfarshi
470	Monday 24 June	8:00 am - 9:30 am	3	CO2 Sequestration and Utilization	Jonathan Levine	Hydraulic Fracturing During Injection of CO2 into Deep Ocean Sediments	Jonathan Levine
446	Monday 24 June	8:00 am - 9:30 am	3	CO2 Sequestration and Utilization	Bogdan Orlic	Site-specific geomechanical modeling for predicting stress changes around depleted gas reservoirs considered for CO2 storage in the Netherlands	Bogdan Orlic
577	Monday 24 June	8:00 am - 9:30 am	3	CO2 Sequestration and Utilization	Laura Chiaramonte	Probabilistic Risk Assessment of Mechanical Deformation due to CO2 Injection in a Compartmentalized Reservoir	Laura Chiaramonte
617	Monday 24 June	8:00 am - 9:30 am	3	CO2 Sequestration and Utilization	Pengzhi Pan	The influence of caprock initial damage on its fracturing process during CO2 injection into a brine aquifer	Pengzhi Pan
255	Monday 24 June	8:00 am - 9:30 am	3	CO2 Sequestration and Utilization	Antonio Pio Rinaldi	Geomechanical effects on CO2 leakage through fault zones during large-scale underground injection	Antonio Pio Rinaldi
164	Monday 24 June	8:00 am - 9:30 am	4	Rock Slopes I	Renato Macciotta	Role of 3D Topography in Rock Fall Trajectories and Model Sensitivity to Input Parameters	Renato Macciotta
195	Monday 24 June	8:00 am - 9:30 am	4	Rock Slopes I	Gony Yagoda-Biran	A new failure mode chart for toppling and sliding with consideration of earthquake inertia force	Gony Yagoda-Biran
744	Monday 24 June	8:00 am - 9:30 am	4	Rock Slopes I	Frederic Victor Donze	DEM modeling of jointed rock slopes	Frederic Victor Donze
258	Monday 24 June	8:00 am - 9:30 am	4	Rock Slopes I	mingwei guo	The application of vector sum method on three-dimensional rock slope rock slope stability analysis	mingwei guo
314	Monday 24 June	8:00 am - 9:30 am	4	Rock Slopes I	Margaret Anne Clayton	The Mitchell Creek Landslide, B.C., Canada: Investigation using Remote Sensing and Numerical Modeling	Margaret Anne Clayton
378	Monday 24 June	8:00 am - 9:30 am	4	Rock Slopes I	Omer Aydan	The effects of earthquakes on rock slopes	Omer Aydan
304	Monday 24 June	11:00 am - 12:30 pm	5	Reservoir Geomechanics I	Euripides Papamichos	Sand production initiation criteria and their validation	Euripides Papamichos
163	Monday 24 June	11:00 am - 12:30 pm	5	Reservoir Geomechanics I	Gang Han	Development and Calibrations of a Coupled Reservoir Geomechanic Model for Valhall Field	Gang Han
300	Monday 24 June	11:00 am - 12:30 pm	5	Reservoir Geomechanics I	Bogdan Orlic	Field scale geomechanical modeling for prediction of fault stability during underground gas storage operations in a depleted gas field in the Netherlands	Bogdan Orlic
427	Monday 24 June	11:00 am - 12:30 pm	5	Reservoir Geomechanics I	Jan terHeege	Discrete element modeling of fault mechanics and permeability evolution for gas production and storage: Effect of shale content and distribution	Jan terHeege
282	Monday 24 June	11:00 am - 12:30 pm	5	Reservoir Geomechanics I	Anders Nermoen	Measuring the Biot stress coefficient and its implications on the effective stress estimate	Anders Nermoen
355	Monday 24 June	11:00 am - 12:30 pm	5	Reservoir Geomechanics I	Chandong Chang	A post-depletion subsidence mechanism in the southern coastal zone of Louisiana, USA	Chandong Chang
406	Monday 24 June	11:00 am - 12:30 pm	6	Deep Mine Rock Mechanics	Xuhai Tang	A study of the influence of fragmentation in ore-pass hang-up phenomena	Xuhai Tang
347	Monday 24 June	11:00 am - 12:30 pm	6	Deep Mine Rock Mechanics	Behrad Madjdabadi	Laboratory-scale strain and temperature response of a distributed optical fiber sensor	Behrad Madjdabadi
217	Monday 24 June	11:00 am - 12:30 pm	6	Deep Mine Rock Mechanics	zengqiang han	Research on deep ore-lode's extension direction based on digital borehole image	zengqiang han
478	Monday 24 June	11:00 am - 12:30 pm	6	Deep Mine Rock Mechanics	Ryan Paul Preston	Quantifying the Effects of Adverse Geology on Pillar Strength through Numerical Modeling	Ryan Paul Preston
257	Monday 24 June	11:00 am - 12:30 pm	7	Transport and Coupled Processes in Fractures	kenzi karasaki	Permeability Structure of a Strike-Slip Fault	kenzi karasaki
197	Monday 24 June	11:00 am - 12:30 pm	7	Transport and Coupled Processes in Fractures	Joseph Morris	Exploring Alternative Characterizations of Fracture Stiffness and Their Respective Scaling Behaviors	Joseph Morris
433	Monday 24 June	11:00 am - 12:30 pm	7	Transport and Coupled Processes in Fractures	Bradley Abell	Dispersive Waves Propagating along a Surface Fracture	Bradley Abell
445	Monday 24 June	11:00 am - 12:30 pm	7	Transport and Coupled Processes in Fractures	Stuart Duncan Christopher Walsh	Decoupling reaction and deformation in natural fractures with X-Ray Micro-tomography and Particle Image Velocimetry	Stuart Duncan Christopher Walsh
638	Monday 24 June	11:00 am - 12:30 pm	7	Transport and Coupled Processes in Fractures	Pasha Ameli	Micro-Scale Simulation of Fracture Alteration Caused by Coupled Chemical and Mechanical Processes	Pasha Ameli
438	Monday 24 June	11:00 am - 12:30 pm	7	Transport and Coupled Processes in Fractures	Eric Boomsma	Particle Swarms in Variable Aperture Fractures	Eric Boomsma
428	Monday 24 June	11:00 am - 12:30 pm	8	Rock Slopes II	Jeff Hsi	Challenges in Design and Construction of Retaining Walls in Complex Geology	Jeff Hsi
486	Monday 24 June	11:00 am - 12:30 pm	8	Rock Slopes II	Sohrab Gheibie	Probabilistic-Numerical Modeling of Stability of a Rock Slope in Amasya-Turkey	Sohrab Gheibie
585	Monday 24 June	11:00 am - 12:30 pm	8	Rock Slopes II	William Chester-Bruce Gates	Resin Grouted Rock Anchors: Case Histories of Failures and Mitigation	William Chester-Bruce Gates
588	Monday 24 June	11:00 am - 12:30 pm	8	Rock Slopes II	yonathan admassu	Application of a quantitative approach for kinematic analysis of rock slope failures along cut slopes in Ohio	yonathan admassu

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692	Monday 24 June	11:00 am - 12:30 pm	8	Rock Slopes II	Ali Keneti	Interpretation of Pit Scale Faults at an Unexposed Bedrock Site Using Exclusively Borehole Data: A Case Study at the EKATI Pigeon Pit Site	Ali Keneti
234	Monday 24 June	2:00 pm - 3:30 pm	9	Wellbore Stability	Maria-Katerina Nikolinakou	Geomechanical modeling of the Mad Dog salt, Gulf of Mexico	Maria-Katerina Nikolinakou
223	Monday 24 June	2:00 pm - 3:30 pm	9	Wellbore Stability	Byoung Yoon Park	Interface Modeling to Predict Wellbore Damage for Big Hill Strategic Petroleum Reserve	Byoung Yoon Park
132	Monday 24 June	2:00 pm - 3:30 pm	9	Wellbore Stability	Xinpu Shen	Case Studies on Wellbore Stability of Tight Sand Formations in West China	Xinpu Shen
346	Monday 24 June	2:00 pm - 3:30 pm	9	Wellbore Stability	Olav-Magnar Nes	Borehole Shale Stability Analysis to Facilitate Successful Drilling of a Horizontal Well in the North Sea	Olav-Magnar Nes
490	Monday 24 June	2:00 pm - 3:30 pm	9	Wellbore Stability	Bona Park	Discrete Element Modeling of Transversely Isotropic Rock	Bona Park
411	Monday 24 June	2:00 pm - 3:30 pm	9	Wellbore Stability	Jessica Avila	Impact of Drilling Mechanics on the Geomechanical Model: An Example from Gorgon Development Drilling Campaign, offshore Australia	Jessica Avila
143	Monday 24 June	2:00 pm - 3:30 pm	10	Numerical Modeling In Coal Mines	Michael M Murphy	Quantifying the benefit of cable bolts as supplementary support in coal mines using the strength reduction method	Michael M Murphy
479	Monday 24 June	2:00 pm - 3:30 pm	10	Numerical Modeling In Coal Mines	Douglas R. Tesarik	Inferring Mine Floor Properties from Pillar Size and Floor Heave	Douglas R. Tesarik
201	Monday 24 June	2:00 pm - 3:30 pm	10	Numerical Modeling In Coal Mines	Anil K Ray	Numerical Modeling of the Performance of Active and Passive Bolts installed at an Illinois Basin Coal Mine	Anil K Ray
174	Monday 24 June	2:00 pm - 3:30 pm	10	Numerical Modeling In Coal Mines	Evan Michael Casey Kias	Modeling unstable failure of coal pillars in underground mining using the discrete element method	Evan Michael Casey Kias
165	Monday 24 June	2:00 pm - 3:30 pm	10	Numerical Modeling In Coal Mines	Ruixiang Gu	Distinct Element Analysis of Discontinuity Stable and Unstable Shear Failure	Ruixiang Gu
198	Monday 24 June	2:00 pm - 3:30 pm	10	Numerical Modeling In Coal Mines	Raghwendra Singh	Estimation of parting stability and support requirements during depillaring in two contiguous coal seams	Raghwendra Singh
145	Monday 24 June	2:00 pm - 3:30 pm	11	Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Giuseppe Buscarnera	Modeling hydraulic and chemical processes in crushable granular materials	Giuseppe Buscarnera
218	Monday 24 June	2:00 pm - 3:30 pm	11	Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Takashi Danjo	Formation mechanisms of beachrocks in Okinawa and Ishikawa, Japan	Takashi Danjo
650	Monday 24 June	2:00 pm - 3:30 pm	11	Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Taha Murtuza Husain	Influence of infusion rate and magma rheology on the growth of lava domes	Taha Murtuza Husain
253	Monday 24 June	2:00 pm - 3:30 pm	11	Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Victor Vilarrasa	Impacts of cold CO2 injection in deep saline aquifers on the rock mechanical integrity	Victor Vilarrasa
621	Monday 24 June	2:00 pm - 3:30 pm	11	Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Laura Blanco Martín	Thermal-Hydraulic-Mechanical Processes Modeling to Evaluate Salt-based Repositories in the Long-Term	Laura Blanco Martín
241	Monday 24 June	2:00 pm - 3:30 pm	11	Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	A.K.M. Badrul Alam	Effect of confining pressure on permeability during deformation and failure of several rocks under compression	A.K.M. Badrul Alam
305	Monday 24 June	2:00 pm - 3:30 pm	12	Constitutive Models	Cheng Zhu	Modeling Stiffness Anisotropy Induced by Crack Opening in Rocks Subjected to Thermal versus Mechanical Stress Gradients	Cheng Zhu
407	Monday 24 June	2:00 pm - 3:30 pm	12	Constitutive Models	Matthew A Perras	Queenston Formation: Tunnel back analysis and forward shaft prediction	Matthew A Perras
350	Monday 24 June	2:00 pm - 3:30 pm	12	Constitutive Models	Pinnaduwa Kulatilake	Development of an orthotropic constitutive model for a jointed rock mass	Pinnaduwa Kulatilake
524	Monday 24 June	2:00 pm - 3:30 pm	12	Constitutive Models	Pekka Kantia	Non-destructive testing of rock mass deformation in spent nuclear fuel disposal research facilities	Pekka Kantia
394	Monday 24 June	2:00 pm - 3:30 pm	12	Constitutive Models	Morteza Nejati	Theoretical and Numerical Modeling of Rock Hysteresis Based on Sliding of Microcracks	Morteza Nejati
348	Monday 24 June	2:00 pm - 3:30 pm	12	Constitutive Models	Chloe Fanny Arson	Towards a Thermodynamic Framework to Model Particle Crushing and Sieving	Chloe Fanny Arson
246	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - CO2 Sequestration and Utilization	Jeanne Pierre	Relation between fault zone architecture, earthquake magnitude and leakage associated with CO2 injection in a multilayered sedimentary system	Jeanne Pierre
737	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - CO2 Sequestration and Utilization	V Vishal	Development of reconstituted Indian coals to investigate coal response to carbon dioxide exposure	V Vishal
739	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - CO2 Sequestration and Utilization	Natalia V Zakharova	In-Situ Stress Constraints from Borehole Data in the Context of CO2-Storage Site Characterization	Natalia V Zakharova
184	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - CO2 Sequestration and Utilization	chao li	Coupled semi-analytical solution for CO2 injection-induced surface uplift and caprock deflection	chao li
592	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - CO2 Sequestration and Utilization	Hang Deng	Experimental study of reactive flow in an Eau Claire fracture exposed to CO2-rich brine	Hang Deng
634	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Transport and Coupled Processes in Fractures	souheil ezzedine	Numerical Simulation of Supercritical Carbon Dioxide Leakages in Fractured Porous Reservoir	souheil ezzedine
520	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Transport and Coupled Processes in Fractures	Morteza Javadi	Non-linear Fluid Flow through Rough-walled Fractures: the Role of Shear displacement on the Critical Reynolds Number	Morteza Javadi
392	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Transport and Coupled Processes in Fractures	Morteza Javadi	Mesosopic Evaluation of Non-linear Fluid Flow Through Rough-walled Fractures Using 'T Model'	Morteza Javadi
266	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Alessio Ferrari	Experimental analysis of the retention behavior of shales	Alessio Ferrari
236	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Hideaki Yasuhara	Long-term Observation of Rock Permeability under High Pressure and Temperature Conditions and Its Microstructural Interpretation	Hideaki Yasuhara
285	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Thermal, Hydrological, Mechanical, Chemical and Biological Influences on Rock Properties	Abiola Olabode	Characterization of Shale Rocks under Dynamic Geochemical Interaction with Brine-CO2 Fluid	Abiola Olabode
447	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Experimental Rock Mechanics	qianbing zhang	Review of dynamic fracture testing methods and fracture behaviour of rock materials	qianbing zhang
468	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Experimental Rock Mechanics	Roman Y Makhnenko	Saturation of Porous Rock and Measurement of the B coefficient	Roman Y Makhnenko
546	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Experimental Rock Mechanics	Junhao Zhou	Petrophysical Characterization of Organic-Rich Shales: A New Standardized Protocol	Junhao Zhou
641	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Experimental Rock Mechanics	Kathrine Hedegaard	Fluid-Dependent Weakening of Chalk	Kathrine Hedegaard
432	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Experimental Rock Mechanics	Peng Zhang	The behavior of Carthage Marble and Terratek Sandstone during high pressure, high temperature compression tests	Peng Zhang
429	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Experimental Rock Mechanics	Merete Vadla Madland	The impact of surface charge on capillary pressure and mechanical behaviour of chalk	Merete Vadla Madland
294	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Wellbore Stability	Ali Moïnfar	Analysis of Wellbore Instability Caused by Weak Bedding-Plane Slippage for Arbitrary-Oriented Boreholes: Theory and Case Study	Ali Moïnfar

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434	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Wellbore Stability	SERGIO OROZCO OROZCO	Numerical 3D Stability Analysis of Wells Drilled Through Salt Zones	SERGIO OROZCO OROZCO
652	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Wellbore Stability	MAHDI HEIDARI MOGHADAM	A Numerical Analysis of Wellbores in Shale with Viscoplastic Behavior	MAHDI HEIDARI MOGHADAM
495	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Wellbore Stability	Yevhen Kovalyshen	Self-Excited Axial Vibrations of a Drilling Assembly: Modeling and Experimental Investigation	Yevhen Kovalyshen
316	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Wellbore Stability	Nevan Himmelberg	Wellbore Trajectory Planning for Complex Stress States	Nevan Himmelberg
103	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Wellbore Stability	Mao Bai	An Objective Method for Wellbore Stability Analysis	Mao Bai
110	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Pore Pressure and Stress	SeyedBijan Mahbaz	Scanning Electron Microscope (SEM) and Profilometer Scanning Microscopy to Estimate In Situ Stresses in a Dolomite Core Specimen	SeyedBijan Mahbaz
141	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Pore Pressure and Stress	Lisa Song	Minimum Horizontal Stress Profile from Rock Strength for Montney Formation in North East British Columbia Canada	Lisa Song
125	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Pore Pressure and Stress	Mojtaba Pordel Shahri	Effect of Pore Pressure Changes on Formation Fracture Pressure in Non-hydrostatic Stress Field	Mojtaba Pordel Shahri
150	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Reservoir Geomechanics	Mehdi Ostadhassan	Stress Analysis and Wellbore Stability in Unconventional Reservoirs	Mehdi Ostadhassan
306	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Reservoir Geomechanics	Alexandre Lavrov	Numerical modeling of tensile thermal stresses in rock around a cased well caused by injection of a cold fluid	Alexandre Lavrov
611	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Reservoir Geomechanics	Kristine Haug	Geological and Geomechanical Characterization of In Situ Oil Sands Caprock in the Athabasca Oil Sands Area, Alberta, Canada	Kristine Haug
697	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Reservoir Geomechanics	E. Vargas Jr	Evaluation of numerical simulation procedures for prediction of solids production in oil producing wells	E. Vargas Jr
535	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Reservoir Geomechanics	Andreas Bauer	Temperature dependence of ultrasonic velocities in shales	Andreas Bauer
237	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Rock Slopes III	Sampath Sri Samudra Sarosana Monarawila Keppetipola	Mechanisms of Falling Rock Formation at Steep Slope due to Temperature Perturbation	Sampath Sri Samudra Sarosana Monarawila Keppetipola
337	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Rock Slopes III	honggyun Kim	Study on Stability of Slope Located at the Down-Road through Calculated Wetness Index of Valley Terrain	honggyun Kim
356	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Rock Slopes III	Seung Hyun Kim	Stability analysis through a step-by-step Infiltration Interpretation at Granitoid Soil Slope in Korea	Seung Hyun Kim
591	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Rock Slopes III	Muhammad Farooq Ahmed	Discussion of Risk Factors for Triggering of Rockslide Avalanche Dams in Pakistan, Afghanistan, and Tajikistan and Mitigation Strategies	Muhammad Farooq Ahmed
323	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - In Situ Stress	José Adelman de Mello Franco	The Concept of Entropy of Information Linked to the concept of Sensitivity Numbers, for Optimizing Overcoring Tests	José Adelman de Mello Franco
156	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Grouting	zengqiang han	Research on the detection method of bored pile bottom sediment thickness	zengqiang han
233	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Grouting	shnji utsuki	Development of Grouting Management Support System and Its Application to Actual Dam Grouting	shnji utsuki
120	Monday 24 June	3:30 pm - 4:30 pm	Poster1	Posters - Rock Testing	Dae-Sugn Cheon	Parametric study of damage controlled test to predict brittle failure of rocks	Dae-Sugn Cheon
368	Monday 24 June	4:30 pm - 6:00 pm	13	Coupled Process Models I	Mark McClure	Computational Investigation of Trends in Initial Shut-in Pressure during Multi-stage Hydraulic Stimulation in the Barnett Shale	Mark McClure
556	Monday 24 June	4:30 pm - 6:00 pm	13	Coupled Process Models I	Sander Hol	Creep behavior of coal and shale related to adsorption of reservoir fluids	Sander Hol
404	Monday 24 June	4:30 pm - 6:00 pm	13	Coupled Process Models I	Minh H Tran	Incorporating the Electrokinetic Effects into the Poroelastic Wellbore and Cylinder Problem for Applications in Shale Drilling and Characterization	Minh H Tran
575	Monday 24 June	4:30 pm - 6:00 pm	13	Coupled Process Models I	Jongsoo Hwang	A 3-Dimensional Fracture Propagation Model for Long-Term Water Injection	Jongsoo Hwang
436	Monday 24 June	4:30 pm - 6:00 pm	13	Coupled Process Models I	Ghazal Izadi	The Influence of Thermal- Hydraulic- Mechanical- and Chemical Effects on the Evolution of Permeability, Seismicity and Heat Production in Geothermal Reservoirs	Ghazal Izadi
466	Monday 24 June	4:30 pm - 6:00 pm	13	Coupled Process Models I	Carlos Emmanuel Ribeiro Lautenschlager	Applications of Partial Fluid-mechanical Coupling in the Reservoir Geomechanics Scope	Carlos Emmanuel Ribeiro Lautenschlager
533	Monday 24 June	4:30 pm - 6:00 pm	14	Geomechanical Challenges Associated with Geothermal Drilling,	Luca Urpi	Coulomb stress change during and after tensile fracture opening in a geothermal reservoir	Luca Urpi
166	Monday 24 June	4:30 pm - 6:00 pm	14	Geomechanical Challenges Associated with Geothermal Drilling,	Luke P Frash	Experimentation with Hydraulic Impulse Stimulation in a Scaled Enhanced Geothermal Systems Reservoir	Luke P Frash
222	Monday 24 June	4:30 pm - 6:00 pm	14	Geomechanical Challenges Associated with Geothermal Drilling,	Francois H. Cornet	Seismic and aseismic motions generated by large scale fluid injections in a deep granite massif	Francois H. Cornet
249	Monday 24 June	4:30 pm - 6:00 pm	14	Geomechanical Challenges Associated with Geothermal Drilling,	yarom polsky	Development of a Neutron Diffraction-Based Strain Measurement Capability for Triaxial Loading Conditions	yarom polsky
608	Monday 24 June	4:30 pm - 6:00 pm	14	Geomechanical Challenges Associated with Geothermal Drilling,	sharad kelkar	Modeling Shear Stimulation of the EGS Well Desert Peak 27-15 Using a Coupled Thermal-Hydrological-Mechanical Simulator	sharad kelkar
279	Monday 24 June	4:30 pm - 6:00 pm	14	Geomechanical Challenges Associated with Geothermal Drilling,	Sylvie Suzanne GENTIER	A flow model of the deep geothermal reservoir of Soultz-sous-Forêts (France)	Sylvie Suzanne GENTIER
456	Monday 24 June	4:30 pm - 6:00 pm	15	Geologic Repository Issues for Nuclear Waste Disposal	Andreas Hampel	Benchmark Calculations of the Thermo-Mechanical Behavior of Rock Salt – Results from a US-German Joint Project	Andreas Hampel
370	Monday 24 June	4:30 pm - 6:00 pm	15	Geologic Repository Issues for Nuclear Waste Disposal	Jose Guadalupe Arguello	Revisiting the 1980's WIPP Room D and B In-Situ Experiments: Performing Thermo-Mechanical Simulations of Rock Salt Using a State-of-the-Art Code Suite	Jose Guadalupe Arguello
303	Monday 24 June	4:30 pm - 6:00 pm	15	Geologic Repository Issues for Nuclear Waste Disposal	Kirby Mellegard	High-temperature characterization of bedded Permian salt	Kirby Mellegard
327	Monday 24 June	4:30 pm - 6:00 pm	15	Geologic Repository Issues for Nuclear Waste Disposal	Christian Missal	Underground Infrastructure Rooms in Squeezing Rock – Geotechnical Conditions in the Konrad Mine during the Conversion to a Repository for Radioactive Waste	Christian Missal
483	Monday 24 June	4:30 pm - 6:00 pm	15	Geologic Repository Issues for Nuclear Waste Disposal	Marcelo Sanchez	Coupled THM analysis of a nuclear waste repository in crystalline rock	Marcelo Sanchez
280	Monday 24 June	4:30 pm - 6:00 pm	15	Geologic Repository Issues for Nuclear Waste Disposal	Fabrice Dupray	Significance of rock THM parameters in geological nuclear waste storage simulation	Fabrice Dupray

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240	Monday 24 June	4:30 pm - 6:00 pm	16	Laboratory-Scale Rock Mechanics	Paul Hagan	The Effect of Joint Frequency on a Discontinuous Rock Mass under Experimental Compressive Testing Conditions	Paul Hagan
265	Monday 24 June	4:30 pm - 6:00 pm	16	Laboratory-Scale Rock Mechanics	Alessio Ferrari	Volumetric behavior and consolidation of shales at high confining stresses	Alessio Ferrari
296	Monday 24 June	4:30 pm - 6:00 pm	16	Laboratory-Scale Rock Mechanics	Louis Ngai Yuen Wong	Evolution of En-echelon Flaws to a Shear Rupture in Moulded Gypsum under Uniaxial Compression	Louis Ngai Yuen Wong
503	Monday 24 June	4:30 pm - 6:00 pm	16	Laboratory-Scale Rock Mechanics	Ehsan Ghazvinian	The effect of anisotropy on crack damage thresholds in brittle rocks	Ehsan Ghazvinian
580	Monday 24 June	4:30 pm - 6:00 pm	16	Laboratory-Scale Rock Mechanics	Ahmet Aydin	Stress induced electric field measurements of different rock lithology using the Electric Potential Sensor	Ahmet Aydin
336	Monday 24 June	4:30 pm - 6:00 pm	16	Laboratory-Scale Rock Mechanics	Wei Liu	Analysis of physical and mechanical properties of impure salt rock	Wei Liu
666	Tuesday 25 June	8:00 am - 9:30 am	17	Unconventionals I	Roberto Suarez-Rivera	Geomechanics Considerations for Hydraulic Fracture Productivity	Roberto Suarez-Rivera
200	Tuesday 25 June	8:00 am - 9:30 am	17	Unconventionals I	Marisela Nagel	Stress Shadow Evaluations For Chicotepec – Evaluating New Completion Options	Marisela Nagel
289	Tuesday 25 June	8:00 am - 9:30 am	17	Unconventionals I	Albert Cui	Controls of Anisotropic In-situ Stress and Permeability in Optimization of Wells and Hydraulic Fractures for Unconventional Reservoirs: Examples from the Western Canada Sedimentary Basin	Albert Cui
140	Tuesday 25 June	8:00 am - 9:30 am	17	Unconventionals I	Luis Matzar	Understanding Shale Failure from Laboratory Analysis to Field Operations	Luis Matzar
312	Tuesday 25 June	8:00 am - 9:30 am	17	Unconventionals I	Mehdi Mokhtari	Failure Behavior of Anisotropic Shales	Mehdi Mokhtari
578	Tuesday 25 June	8:00 am - 9:30 am	17	Unconventionals I	Priyavrat Shukla	Nanoindentation Studies on Shales	Priyavrat Shukla
477	Tuesday 25 June	8:00 am - 9:30 am	18	Ground Control I	Yi Luo	Identifying Root Causes for Subsidence over Abandoned Coal Mine – A Case Study	Yi Luo
448	Tuesday 25 June	8:00 am - 9:30 am	18	Ground Control I	Catherine Banton	Stability evaluation of stopes and pillars at MAX Mine and development of a Surpac-FLAC3D model-building technique	Catherine Banton
134	Tuesday 25 June	8:00 am - 9:30 am	18	Ground Control I	Arunkumar Rai	QA/QC and learning curve for cemented rock fill at the Turquoise Ridge Joint Venture, Nevada	Arunkumar Rai
138	Tuesday 25 June	8:00 am - 9:30 am	18	Ground Control I	Paul B. Hughes	Cemented paste backfill at Stillwater Mine, Montana	Paul B. Hughes
118	Tuesday 25 June	8:00 am - 9:30 am	18	Ground Control I	cheowchan leelasukseree	Slope Monitoring of Large Scale Experiment of Undercut Slope at Mae Moh Mine, Thailand	cheowchan leelasukseree
130	Tuesday 25 June	8:00 am - 9:30 am	18	Ground Control I	saeedeh rezaei	Application of Close Range Photogrammetry to Monitor Displacements in Open Pit Mines	saeedeh rezaei
151	Tuesday 25 June	8:00 am - 9:30 am	19	Rock Physics and Geophysics	Dave Dewhurst	Mechanics, Physics, Chemistry and Shale Rock Properties	Dave Dewhurst
343	Tuesday 25 June	8:00 am - 9:30 am	19	Rock Physics and Geophysics	Seiji Nakagawa	Low-frequency (<100 Hz) Dynamic Fracture Compliance Measurement in the Laboratory	Seiji Nakagawa
405	Tuesday 25 June	8:00 am - 9:30 am	19	Rock Physics and Geophysics	Min-Kwang Choi	Relationship between Shear and Normal Stiffness for a Fracture Subjected to Mixed-Mode Loading	Min-Kwang Choi
541	Tuesday 25 June	8:00 am - 9:30 am	19	Rock Physics and Geophysics	Tomas Lokajicek	The anisotropy of ultrasonic waves velocity and attenuation of migmatite samples under uniaxial loading	Tomas Lokajicek
614	Tuesday 25 June	8:00 am - 9:30 am	19	Rock Physics and Geophysics	Christopher Sherman	Elastodynamic Simulation of Tunnel Detection Experiments in Heterogeneous Geological Media	Christopher Sherman
676	Tuesday 25 June	8:00 am - 9:30 am	19	Rock Physics and Geophysics	Nicolas Guy	Influence of SAGD process on seismic velocities	Nicolas Guy
320	Tuesday 25 June	8:00 am - 9:30 am	20	Discrete Geomechanics I	Gony Yagoda-Biran	Response spectra of slender columns as obtained with 2D-DDA and geophysical site response tests	Gony Yagoda-Biran
362	Tuesday 25 June	8:00 am - 9:30 am	20	Discrete Geomechanics I	Tomofumi Koyama	Stability analysis of masonry structures in Angkor Thom,Cambodia using elasto-plastic NMM-DDA with subloading Cam-clay model	Tomofumi Koyama
416	Tuesday 25 June	8:00 am - 9:30 am	20	Discrete Geomechanics I	Roozbeh Geraili Mikola	Explicit Three Dimensional Discontinuous Deformation Analysis for Blocky System	Roozbeh Geraili Mikola
489	Tuesday 25 June	8:00 am - 9:30 am	20	Discrete Geomechanics I	sasaki takeshi	Numerical stability on rock fall problems by 3-D DDA	sasaki takeshi
492	Tuesday 25 June	8:00 am - 9:30 am	20	Discrete Geomechanics I	Shigeru Miki	Application of NMM-DDA to earthquake induced slope failure and landslide	Shigeru Miki
498	Tuesday 25 June	8:00 am - 9:30 am	20	Discrete Geomechanics I	Yuan Wang	Energy-Work-Based Confined-Unconfined Seepage Modeling Using Numerical Manifold Method	Yuan Wang
252	Tuesday 25 June	11:00 am - 12:30 pm	21	Fracture Mechanics I	Dimitry Chuprakov	Injection-sensitive mechanics of hydraulic fracture interaction with discontinuities	Dimitry Chuprakov
700	Tuesday 25 June	11:00 am - 12:30 pm	21	Fracture Mechanics I	Quan Gan	Breakdown pressures due to infiltration and exclusion in finite length boreholes	Quan Gan
153	Tuesday 25 June	11:00 am - 12:30 pm	21	Fracture Mechanics I	Neelam Raysoni	Understanding Geochemical Interaction of Proppant-Formation for Improved Conductivity of Hydraulic Fractures	Neelam Raysoni
403	Tuesday 25 June	11:00 am - 12:30 pm	21	Fracture Mechanics I	Yi Yang	Comparison of Brittleness Indices in Organic-rich Shale Formations	Yi Yang
659	Tuesday 25 June	11:00 am - 12:30 pm	21	Fracture Mechanics I	MICHIHARU HIYAMA	Distinct element analysis for hydraulic fracturing in shale - Effect of brittleness on the fracture propagation	MICHIHARU HIYAMA
254	Tuesday 25 June	11:00 am - 12:30 pm	21	Fracture Mechanics I	Travis Wayne Cavender	Comparisons of Plane Propagation from Dilating Casing and Conventional Perforations when Stimulating the Milk River Formation	Travis Wayne Cavender
642	Tuesday 25 June	11:00 am - 12:30 pm	22	Ground Control II	Alan Gordon Thompson	Case studies of rock reinforcement components and systems testing	Alan Gordon Thompson
689	Tuesday 25 June	11:00 am - 12:30 pm	22	Ground Control II	Sheila Ballantyne	Developments in Empirical Approaches to Mining in Frozen Rock Mass	Sheila Ballantyne
135	Tuesday 25 June	11:00 am - 12:30 pm	22	Ground Control II	Arunkumar Rai	Shotcrete Strength Testing at the Turquoise Ridge Joint Venture, Nevada	Arunkumar Rai
563	Tuesday 25 June	11:00 am - 12:30 pm	22	Ground Control II	Ali Keneti	Developing an Approach for Reliability Analysis of Bench Face Angle Design in Open Pits with Structurally Controlled Sliding Failure	Ali Keneti
678	Tuesday 25 June	11:00 am - 12:30 pm	23	Rock Heterogeneity and Scaling	Adrian Rodriguez Herrera	Field-scale geomechanical characterization of the Haynesville Shale	Adrian Rodriguez Herrera
261	Tuesday 25 June	11:00 am - 12:30 pm	23	Rock Heterogeneity and Scaling	Maxim Chertov	On the Limitations of Effective Medium Approaches for Estimating Fracture Width in Anisotropic Rocks	Maxim Chertov
366	Tuesday 25 June	11:00 am - 12:30 pm	23	Rock Heterogeneity and Scaling	Juergen Schieber	Textural and Compositional Heterogeneity of Tight Shales at the Micro-Scale	Juergen Schieber
656	Tuesday 25 June	11:00 am - 12:30 pm	23	Rock Heterogeneity and Scaling	James Wesley Colovos	Reduction of macroscale calibration experiments through constraints on anisotropic elastic stiffnesses	James Wesley Colovos
653	Tuesday 25 June	11:00 am - 12:30 pm	23	Rock Heterogeneity and Scaling	Sander Hol	Microfracturing of coal related to adsorption-induced swelling and matrix-scale heterogeneity	Sander Hol
630	Tuesday 25 June	11:00 am - 12:30 pm	23	Rock Heterogeneity and Scaling	souheil ezzedine	Enhancing Heat Extraction and Minimizing Water Losses by Deploying Silica Gel in Enhanced Geothermal Systems	souheil ezzedine

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269	Tuesday 25 June	11:00 am - 12:30 pm	24	Discrete Geomechanics II	Gen-hua Shi	Basic Equations of Two Dimensional and Three Dimensional Contacts	Gen-hua Shi
168	Tuesday 25 June	11:00 am - 12:30 pm	24	Discrete Geomechanics II	Ali Tarokh	Relationship between grain size and fracture properties of rock	Ali Tarokh
388	Tuesday 25 June	11:00 am - 12:30 pm	24	Discrete Geomechanics II	Markus Knauth	Discontinuum-mechanical behaviour of salt rocks and the practical relevance for the integrity of salinar barriers	Markus Knauth
583	Tuesday 25 June	11:00 am - 12:30 pm	24	Discrete Geomechanics II	Pooya Hamdi	Numerical simulation of damage during laboratory testing on rock using a 3D-FEM/DEM approach	Pooya Hamdi
673	Tuesday 25 June	11:00 am - 12:30 pm	24	Discrete Geomechanics II	Wen-Chih Liu	Numerical investigation of crack propagation and failure mechanism of layered rocks	Wen-Chih Liu
600	Tuesday 25 June	11:00 am - 12:30 pm	24	Discrete Geomechanics II	Michael George	Block Theory Application to Unlined Rock Spillway Erodibility Assessment	Michael George
527	Tuesday 25 June	2:00 pm - 3:30 pm	25	Pore Pressure and Stress	Zsolt Nagy	Iterative 3D geomechanical modeling to determine distribution and impact of stresses in deepwater Gulf of Mexico subsalt and near-salt environments	Zsolt Nagy
729	Tuesday 25 June	2:00 pm - 3:30 pm	25	Pore Pressure and Stress	Jonathan Mark Rance	Predicting the Paleo Evolution of Overpressured Geological Structures	Jonathan Mark Rance
302	Tuesday 25 June	2:00 pm - 3:30 pm	25	Pore Pressure and Stress	Alvin W Chan	An Alternative Interpretation of Leakoff and Lost Circulation Pressure Measurements	Alvin W Chan
545	Tuesday 25 June	2:00 pm - 3:30 pm	25	Pore Pressure and Stress	Peter Bautmans	Wireline stress testing in reservoir sands - some geomechanical considerations and a case from the Norwegian continental shelf	Peter Bautmans
308	Tuesday 25 June	2:00 pm - 3:30 pm	25	Pore Pressure and Stress	Saeed Salehi	Revisiting Well Design and Formation Pressure Prediction: Case Study from Gulf of Mexico	Saeed Salehi
121	Tuesday 25 June	2:00 pm - 3:30 pm	25	Pore Pressure and Stress	Vahid Dokhani	The Effect of Bedding Plane Orientation on Pore Pressure in Shale Formations: Laboratory Testing and Mathematical Modeling	Vahid Dokhani
183	Tuesday 25 June	2:00 pm - 3:30 pm	26	Coal Mine Rock Mechanics	Kanaan Hanna	Geotechnical-Geophysical Void Mapping and Foamed-Sand Backfilling of the Rapson Coal Mine, Colorado Springs, Colorado - Case Study	Kanaan Hanna
154	Tuesday 25 June	2:00 pm - 3:30 pm	26	Coal Mine Rock Mechanics	Gabriel Esterhuizen	Practical estimation of rock properties for modeling bedded coal mine strata using the Coal Mine Roof Rating	Gabriel Esterhuizen
443	Tuesday 25 June	2:00 pm - 3:30 pm	26	Coal Mine Rock Mechanics	Biao Qiu	Applications of Subsurface Subsidence Theories to Ground Control in Coal Mines	Biao Qiu
734	Tuesday 25 June	2:00 pm - 3:30 pm	26	Coal Mine Rock Mechanics	Shivakumar Karekal	Extraction Design for Multiple Seams Highwall Mining in India – A Case Example	Shivakumar Karekal
105	Tuesday 25 June	2:00 pm - 3:30 pm	26	Coal Mine Rock Mechanics	Virendra Kumar Singh	Geotechnical Study of Coal Rib Failure at Ananta Coal Mine, Orissa, India	Virendra Kumar Singh
605	Tuesday 25 June	2:00 pm - 3:30 pm	26	Coal Mine Rock Mechanics	Abbas Majdi	Application of artificial neural networks for predicting the height of destressed zone above the mined panel in longwall coal mining	Abbas Majdi
295	Tuesday 25 June	2:00 pm - 3:30 pm	27	Acoustic Emissions	Koji Masuda	Ultrasonic Transmission and Acoustic Emission Monitoring of Injection-Induced Fracture Processes in Rock Samples	Koji Masuda
400	Tuesday 25 June	2:00 pm - 3:30 pm	27	Acoustic Emissions	Sebastian David Goodfellow	Analysis of continuous Acoustic Emission waveform records from rock fracturing experiments	Sebastian David Goodfellow
664	Tuesday 25 June	2:00 pm - 3:30 pm	27	Acoustic Emissions	Sergey Stanchits	Monitoring the Early Onset of Hydraulic Fracture Initiation by Acoustic Emission and Volumetric Deformation Measurements	Sergey Stanchits
586	Tuesday 25 June	2:00 pm - 3:30 pm	27	Acoustic Emissions	Abhishek Sharma	Acoustic Mapping and Microscopic Analysis of Laboratory Induced Hydraulic Fractures under Triaxial Stress Conditions	Abhishek Sharma
298	Tuesday 25 June	2:00 pm - 3:30 pm	27	Acoustic Emissions	Ahmadreza Hedayat	Multi-modal monitoring of slip along frictional discontinuities	Ahmadreza Hedayat
639	Tuesday 25 June	2:00 pm - 3:30 pm	27	Acoustic Emissions	Paul Selvadurai	Experimental evidence of micromechanical processes that control localization of shear rupture nucleation	Paul Selvadurai
284	Tuesday 25 June	2:00 pm - 3:30 pm	28	Rock Mass Characterization and Ground Improvement	Jalaleddin Yaghoobi Rafi	Theoretical Approaches in Grouting Fractures of the Rock Mass: Theories and Applications	Jalaleddin Yaghoobi Rafi
449	Tuesday 25 June	2:00 pm - 3:30 pm	28	Rock Mass Characterization and Ground Improvement	Mashuqur Rahman	In-line ultrasound based rheology - A new tool for the measurement of flow and rheological properties of cement based grout	Mashuqur Rahman
514	Tuesday 25 June	2:00 pm - 3:30 pm	28	Rock Mass Characterization and Ground Improvement	Isabelle Madeleine Olofsson	Hydraulic characterization and grouting of twin parallel tunnels at Äspö Hard Rock Laboratory, Sweden	Isabelle Madeleine Olofsson
672	Tuesday 25 June	2:00 pm - 3:30 pm	28	Rock Mass Characterization and Ground Improvement	Trevor G Carter	Quantification of the Geological Strength Index chart	Trevor G Carter
597	Tuesday 25 June	2:00 pm - 3:30 pm	28	Rock Mass Characterization and Ground Improvement	David Lowell Knott	Some Interesting Mine Stabilization Projects in Australia	David Lowell Knott
315	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Geomechanical Challenges Associated with Geotherma	Jesse Hampton	Investigation of Laboratory Hydraulic Fracture Source Mechanisms Using Acoustic Emission	Jesse Hampton
278	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Geomechanical Challenges Associated with Geotherma	Sylvie Suzanne GENTIER	Role of the 3D network of faults on the response to hydraulic stimulation of deep geothermal wells	Sylvie Suzanne GENTIER
325	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Geomechanical Challenges Associated with Geotherma	Shi Shi Shao	Influence of high temperature on the mechanical behaviour of Australian Strathbogie granites with different grain sizes	Shi Shi Shao
342	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Geomechanical Challenges Associated with Geotherma	Ingrid Tomac	Numerical Study of Horizontal Proppant Flow and Transport in a Narrow Hydraulic Fracture	Ingrid Tomac
471	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Geomechanical Challenges Associated with Geotherma	Wu Zhang	Optimizing Drilling Parameters: A Preliminary Attempt - Drilling Crab Orchard Sandstone	Wu Zhang
454	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - New Developments in Computational Rock Mechanics	Jeen-Shang Lin	Modeling fracture of quasibrittle materials: a comparative study	Jeen-Shang Lin
515	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - New Developments in Computational Rock Mechanics	Shinichiro Nakashima	Loading conditions in the Brazilian test simulation by DEM	Shinichiro Nakashima
171	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Uncertainty Quantification and Parameter Estimation in	Neelam Raysoni	Insights into the Relationship between Single Grain and API/ISO Crush Strength when applied to Proppants with or without Diagenesis	Neelam Raysoni
202	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Uncertainty Quantification and Parameter Estimation in	Hamidreza Soltanzadeh	A Log-derived Database for Geomechanical Properties of Geological Formations in Alberta, Canada	Hamidreza Soltanzadeh
493	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Rock Physics and Geophysics	william roggenthen	Geophysical Logging of DUSEL Core and Geotechnical Applications	william roggenthen
311	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Rock Physics and Geophysics	Amir Mollajan	Prediction of reservoir water saturation using support vector regression in an Iranian carbonate reservoir	Amir Mollajan
194	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Rock Heterogeneity and Scaling	Hengxing Lan	A 3D grain based model for characterizing the geometric heterogeneity of brittle rock	Hengxing Lan

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126	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Mining	Sanjive Narendranathan	The effect of slope curvature in rock mass shear strength derivations for stability modeling of foliated rock masses	Sanjive Narendranathan
736	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Mining	V Vishal	Influence of Bio-stabilisation on Dump Slopes – A Discrete Element Modeling Approach	V Vishal
682	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Mining	Feng Cui	Numerical simulation of top-coal caving in steeply dipping and thick coal seam mining	Feng Cui
220	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Mining	wang hongwei	Analysis of Surrounding Rock Macro Stress Arch-Shell of Longwall Face in Steeply Dipping Seam Mining	wang hongwei
136	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Mining	Arunkumar Rai	Controlling Drift Profile in Mining Small Top Cut Panels – Turquoise Ridge Case Study	Arunkumar Rai
686	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Coupled Process Models III	LIWEI GUO	A Numerical Investigation of Fracture Pattern and Fracture Aperture Development in Multi-layered Rock using a Combined Finite-Discrete Element Method	LIWEI GUO
504	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Coupled Process Models III	Qian Wang	Analysis of effect factor in shale wellbore stability	Qian Wang
500	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Coupled Process Models III	Pingli Liu	Predicting Productivity of Hydraulic Fracturing with Pre-Pad Acid	Pingli Liu
382	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Coupled Process Models III	Yang JU	3D numerical reconstruction of poorly-connected porous sandstone	Yang JU
383	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Coupled Process Models III	Zhongwei Chen	Evolution of Coal Permeability under Unconstrained Swelling: Contribution of Matrix-Fracture Interaction	Zhongwei Chen
351	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Coupled Process Models III	Jose Luis Carvalho	Near-field and far-field thermo-mechanical modelling of conceptual deep geological repositories for used nuclear fuel in crystalline rock	Jose Luis Carvalho
660	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Fracture Mechanics and Modeling	YASUMASA OMORI	Experimental Study of Hydraulic Fracturing in Unconsolidated Sands Using X-ray CT Method	YASUMASA OMORI
210	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Fracture Mechanics and Modeling	Muhammad Nadeem	Geomechanical Controls on Productivity of Low-Permeability Shallow Reservoirs of the Milk River Formation	Muhammad Nadeem
526	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Fracture Mechanics and Modeling	JOSE GILDARDO OSORIO	Correlation between microseismicity and geomechanics factors affecting the hydraulic fracturing performance in unconventional reservoirs – A field case in Neuquén, Argentina	JOSE GILDARDO OSORIO
543	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Fracture Mechanics and Modeling	Sebastian David Goodfellow	The influence of injection rate on hydraulic fracturing of tri-axially deformed Westerly granite	Sebastian David Goodfellow
177	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Fracture Mechanics and Modeling	Hadi Jabbari	Hydraulic Fracturing Design Optimization – Bakken Case Study	Hadi Jabbari
341	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Unconventionals	Binh Thanh Bui	Biot Tensor Approach for Improved Lifecycle Well Integrity	Binh Thanh Bui
555	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Unconventionals	Wei Yu	Numerical Evaluation of the Impact of Geomechanics on Well Performance in Shale Gas Reservoirs	Wei Yu
395	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Unconventionals	Reza Safari	Effects of Depletion/Injection Induced Stress Changes on Natural Fracture Reactivation	Reza Safari
667	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Unconventionals	Roberto Suarez-Rivera	Development of a Heterogeneous Earth Model in Unconventional Reservoirs, for Early Assessment of Reservoir Potential	Roberto Suarez-Rivera
644	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Unconventionals	S. Mehran Hosseini	On the Linear Elastic Fracture Mechanics Application in Barnett Shale Hydraulic Fracturing	S. Mehran Hosseini
375	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Constitutive Models	Hao Xu	Modeling the Anisotropic Damaged Zone Around Hydraulic Fractures: Thermodynamic Framework and Simulation of Mechanical Tests	Hao Xu
544	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Rock Mass	Ming-Wan Huang	Modifications of the Erodibility Index Method for the Evaluation of the Soft Bedrock Erosion	Ming-Wan Huang
715	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Rock Mass	Jun Peng	Simulating brittle failure of rocks by a new strain-softening model	Jun Peng
169	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Dohyun Park	Thermal stratification in rock caverns with different aspect ratios during the standby mode of operation	Dohyun Park
268	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Xu Gancheng	Dynamic Characteristics Research on Anchor Tunnel Surrounding Rock	Xu Gancheng
137	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Amanda Garduño Gallo	Fiber Reinforced Concrete Performance Parameters using ASTM-C-1550 and EN-14488-5 for rock support in tunnels, Mexico	Amanda Garduño Gallo
238	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	zhiqiang zhang	The influence of fault thickness on tunnel stability	zhiqiang zhang
380	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Yang Gao	Numerical study on nature frequency identification of tunnel lining based on microtremor method	Yang Gao
441	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Steven Gaines	Assessment of the stress path and stress conditions around a borehole: implications for in situ stress estimation using borehole breakouts	Steven Gaines
413	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Rajbal Singh	Upheaval of Rock Mass during Tunnel Construction	Rajbal Singh
452	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	HIGASHI Yukihiro	Analytical Evaluation of Reinforcement Effect of PCM Shotcrete Method Using FRP Grid for Tunnel Maintenance	HIGASHI Yukihiro
482	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Atsushi Kusaka	Laboratory tests on total load-bearing capacity of tunnel's damaged permanent lining reinforced with additional lining	Atsushi Kusaka
551	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Ralf Wolters	Load-bearing Behaviour of Sealed Caverns in Rock Salt used for Disposal of Hazardous Waste	Ralf Wolters
571	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Rolf Christiansson	Rock engineering challenges for extending the Forsmark SFR, Sweden	Rolf Christiansson
157	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Shuilin Wang	Discussions on the longitudinal displacement profile of tunnels in strain-softening rockmass	Shuilin Wang
379	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Tunnels/Caverns	Omer Aydan	An experimental study on the supporting effect of back-filling on abandoned room and pillar mines, quarries and karstic caves, and its in-situ verification	Omer Aydan
680	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Laboratory-Scale Rock Mechanics	Ariel Chung-min Hsieh	The tangent modulus in rock under uniaxial compression test	Ariel Chung-min Hsieh
718	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Laboratory-Scale Rock Mechanics	Joseph SY Wang	Progress in Interactions among Underground Research Laboratories	Joseph SY Wang
742	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Laboratory-Scale Rock Mechanics	Yunfeng Ge	Error Analysis of Sampling Spacing on Roughness of Rock Joint Based on Three Dimensional Laser Scanning Testing	Yunfeng Ge
211	Tuesday 25 June	3:30 pm - 4:30 pm	Poster2	Posters - Laboratory-Scale Rock Mechanics	Eunhye Kim	Effect of L/D ratio on dynamic response of Aluminum 7076 and the Natural Motoqua Quartzite Sandstone in Saint George, UT using Split Hopkinson Pressure Bar (SHPB)	Eunhye Kim



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473	Tuesday 25 June	4:30 pm - 6:00 pm	29	Experimental Rock Mechanics II - Sand	Anita Torabi	Effect of initial grain size and packing on the evolution of elastic properties of poorly lithified sandstones	Anita Torabi
521	Tuesday 25 June	4:30 pm - 6:00 pm	29	Experimental Rock Mechanics II - Sand	Rune Martin Holt	Static and Dynamic Moduli – so equal, and yet so different	Rune Martin Holt
554	Tuesday 25 June	4:30 pm - 6:00 pm	29	Experimental Rock Mechanics II - Sand	Marc Hettema	Design and Interpretation of Laboratory Experiments to determine Pore Volume Compressibility of Sandstone	Marc Hettema
627	Tuesday 25 June	4:30 pm - 6:00 pm	29	Experimental Rock Mechanics II - Sand	Cecilia Maria Mota Silva Lins	Oedometer tests for evaluation of k <sub>0</sub> during chemical dissolution	Cecilia Maria Mota Silva Lins
170	Tuesday 25 June	4:30 pm - 6:00 pm	29	Experimental Rock Mechanics II - Sand	Xiaodong Ma	Failure characteristics of a quartz-rich, high-porosity sandstone subjected to true triaxial testing	Xiaodong Ma
205	Tuesday 25 June	4:30 pm - 6:00 pm	29	Experimental Rock Mechanics II - Sand	Babak Akbari	Effect of Rock Pore Pressure on Mechanical Specific Energy of Rock Cutting Using Single PDC Cutter	Babak Akbari
631	Tuesday 25 June	4:30 pm - 6:00 pm	30	Coupled Process Models II	Behrooz Koohmarch Hosseini	Inclusion of Geomechanics in Streamline Simulation for Hydromechanical Modeling of Underground CO <sub>2</sub> Storage	Behrooz Koohmarch Hosseini
124	Tuesday 25 June	4:30 pm - 6:00 pm	30	Coupled Process Models II	Yanhui Han	Numerical Modeling of Pore Fluid Pressure Diffusion Through Hollow Cylindrical Rock Sample	Yanhui Han
559	Tuesday 25 June	4:30 pm - 6:00 pm	30	Coupled Process Models II	Christopher Petrovitch	Laboratory to Field: Critical Scaling of Single Fractures	Christopher Petrovitch
435	Tuesday 25 June	4:30 pm - 6:00 pm	30	Coupled Process Models II	Arne Marius Raaen	A note on fluid driven natural fractures	Arne Marius Raaen
409	Tuesday 25 June	4:30 pm - 6:00 pm	30	Coupled Process Models II	Lionel Ribeiro	A Three-Dimensional Compositional Model for Hydraulic Fracturing with Energized Fluids	Lionel Ribeiro
442	Tuesday 25 June	4:30 pm - 6:00 pm	30	Coupled Process Models II	Reza Sanaee	Stress effects on flow partitioning in fractured reservoirs: equivalent porous media versus poro-elasticity coupled modeling	Reza Sanaee
307	Tuesday 25 June	4:30 pm - 6:00 pm	31	Geomechanical Challenges Associated with Geothermal Drilling,	Jonny Rutqvist	Modeling and Monitoring of Deep Injection at the Northwest Geysers EGS Demonstration, California	Jonny Rutqvist
484	Tuesday 25 June	4:30 pm - 6:00 pm	31	Geomechanical Challenges Associated with Geothermal Drilling,	Trenton Cladouhos	Improving geothermal Project Economics with Multi-zone Stimulation: Results from the Newberry Volcano EGS Demonstration	Trenton Cladouhos
507	Tuesday 25 June	4:30 pm - 6:00 pm	31	Geomechanical Challenges Associated with Geothermal Drilling,	Gaute Grindhaug	Hard Rock Drilling performance improvement as result of systematic approach for drill bit and BHA selection	Gaute Grindhaug
333	Tuesday 25 June	4:30 pm - 6:00 pm	31	Geomechanical Challenges Associated with Geothermal Drilling,	Azadeh Riahi	Numerical study of the interaction between injection and the discrete fracture network in enhanced geothermal reservoirs	Azadeh Riahi
517	Tuesday 25 June	4:30 pm - 6:00 pm	31	Geomechanical Challenges Associated with Geothermal Drilling,	yves guglielmi	Relationships between slow slip, seismicity and fluids leakage during a pressurized fault zone rupture in situ experiment: Importance for reservoir/caprock stimulation monitoring and efficiency assessment	yves guglielmi
386	Tuesday 25 June	4:30 pm - 6:00 pm	31	Geomechanical Challenges Associated with Geothermal Drilling,	Bjorn Mar Sveinbjornsson	Drilling performance and productivity of geothermal wells - Case history from Hengill Geothermal Area in Iceland	Bjorn Mar Sveinbjornsson
732	Tuesday 25 June	4:30 pm - 6:00 pm	32	Tunnels and Caverns I	Shivakumar Karekal	Oscillating Disc Cutting Technique for Hard Rock Excavation	Shivakumar Karekal
144	Tuesday 25 June	4:30 pm - 6:00 pm	32	Tunnels and Caverns I	Meho Sasa Kovacevic	Investigation, Design and Construction in Karst	Meho Sasa Kovacevic
558	Tuesday 25 June	4:30 pm - 6:00 pm	32	Tunnels and Caverns I	Jonathan Paul Friedman	Design and Analysis of Mine Adit-Plugs within a Tailings Storage Basin	Jonathan Paul Friedman
389	Tuesday 25 June	4:30 pm - 6:00 pm	32	Tunnels and Caverns I	Alexandra Pudewills	Simulation of thermo-mechanical behaviour of rock salt in the vicinity of a disposal drift and the interaction with technical barriers	Alexandra Pudewills
152	Tuesday 25 June	4:30 pm - 6:00 pm	32	Tunnels and Caverns I	Derek Martin	Core diskings observations and in-situ stress magnitudes	Derek Martin
288	Tuesday 25 June	4:30 pm - 6:00 pm	32	Tunnels and Caverns I	Atsushi Kusaka	A Study of the Influence of Tunnel Shape on Rockburst Proneness Using Numerical Modeling	Atsushi Kusaka
199	Wednesday 26 June	8:00 am - 9:30 am	33	Fracture Mechanics II	Neal Nagel	The Influence of Fracture Network Connectivity on Hydraulic Fracture Effectiveness and Microseismicity Generation	Neal Nagel
596	Wednesday 26 June	8:00 am - 9:30 am	33	Fracture Mechanics II	Farrokh Sheibani	Impact of Fracture Height on Mixed Mode Fracture Propagation: Insights from 3D Displacement Discontinuity Modeling	Farrokh Sheibani
460	Wednesday 26 June	8:00 am - 9:30 am	33	Fracture Mechanics II	Vladimir V Petunin	A Finite Difference Approach To Modeling Geomechanics In Hydraulic Fracturing	Vladimir V Petunin
662	Wednesday 26 June	8:00 am - 9:30 am	33	Fracture Mechanics II	Seyed Hassan Fallahzadeh Abarghoeei	Experimental Investigation of Hydraulic Fracturing in Vertical and Horizontal Perforated Boreholes	Seyed Hassan Fallahzadeh Abarghoeei
513	Wednesday 26 June	8:00 am - 9:30 am	33	Fracture Mechanics II	Anna Magdalena Stroisz	Fracture initiation and propagation in reservoir rocks under high injection pressure	Anna Magdalena Stroisz
203	Wednesday 26 June	8:00 am - 9:30 am	33	Fracture Mechanics II	Xavier Garcia	Revisiting Vertical Hydraulic Fracture Propagation Through Layered Formations – A Numerical Evaluation	Xavier Garcia
731	Wednesday 26 June	8:00 am - 9:30 am	34	Production in Weak Rock, Evaporites and Caving	Khalid Javadi Zaka	Geotechnical Pit Slope Design for Brewery Creek Property, Yukon	Khalid Javadi Zaka
207	Wednesday 26 June	8:00 am - 9:30 am	34	Production in Weak Rock, Evaporites and Caving	Hamid Maleki	Stability Analyses of Replacing Barrier Pillars Between Stopes with Backfill in Gilsonite Mines of Utah	Hamid Maleki
162	Wednesday 26 June	8:00 am - 9:30 am	34	Production in Weak Rock, Evaporites and Caving	Laura Olson	The 2-D and 3-D imaging of core for fracture mapping	Laura Olson
187	Wednesday 26 June	8:00 am - 9:30 am	34	Production in Weak Rock, Evaporites and Caving	SRAJ BANDA UMAR	Rock Mass Characterization and Conceptual Modeling of the Printzsköld orebody of the Malmberget Mine	SRAJ BANDA UMAR
487	Wednesday 26 June	8:00 am - 9:30 am	34	Production in Weak Rock, Evaporites and Caving	Steve Rogers	Volumetric Fracture Intensity Measurement for improved rock mass characterisation and fragmentation assessment in block caving operations	Steve Rogers
440	Wednesday 26 June	8:00 am - 9:30 am	34	Production in Weak Rock, Evaporites and Caving	Masood Mostofi	Drilling Response of Impregnated Diamond Bits: An Experimental Investigation	Masood Mostofi
488	Wednesday 26 June	8:00 am - 9:30 am	35	New Developments in Computational Rock Mechanics	Branko Damjanac	Validation of Lattice Approach for Rock Stability Problems	Branko Damjanac
476	Wednesday 26 June	8:00 am - 9:30 am	35	New Developments in Computational Rock Mechanics	Horacio Florez	Oil Reservoir's Geometry Reconstruction and Mesh Generation by Using NURBS Surfaces	Horacio Florez
224	Wednesday 26 June	8:00 am - 9:30 am	35	New Developments in Computational Rock Mechanics	Jim Hazzard	Advances in numerical modeling of microseismicity	Jim Hazzard
572	Wednesday 26 June	8:00 am - 9:30 am	35	New Developments in Computational Rock Mechanics	Tatyana Katsaga	Continuous Monitoring of Synthetic Seismicity: Slip on Joints	Tatyana Katsaga

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706	Wednesday 26 June	8:00 am - 9:30 am	35	New Developments in Computational Rock Mechanics	Navid Bahrani	A comparison between 2D and 3D bonded-particle models for rocks	Navid Bahrani
328	Wednesday 26 June	8:00 am - 9:30 am	36	Dams and Foundations	Kanaan Hanna	Emergency Sinkhole Mitigation and Void Investigation of Abandoned Railroad Tunnel along U.S. 24, Tennessee Pass, Colorado - Case Study	Kanaan Hanna
497	Wednesday 26 June	8:00 am - 9:30 am	36	Dams and Foundations	Ahmed Abu El-Ela	Reliability Based Design of Shallow Foundations on Jointed Rock Masses using RQD and the Uniaxial Compressive Strength of Intact Rock	Ahmed Abu El-Ela
613	Wednesday 26 June	8:00 am - 9:30 am	36	Dams and Foundations	Paul Schlotfeldt	New Park Bridge, Kicking Horse Canyon; Pier 5 – A Difficult Foundation on Rock	Paul Schlotfeldt
415	Wednesday 26 June	8:00 am - 9:30 am	36	Dams and Foundations	Yanan Fan	Susceptibility analysis of earthquake induced landslide-dam based on GIS	Yanan Fan
637	Wednesday 26 June	8:00 am - 9:30 am	36	Dams and Foundations	souheil ezzedine	Flow and transport of fines in dams and embankments	souheil ezzedine
100	Wednesday 26 June	11:00 am - 12:30 pm	37	Reservoir Geomechanics II	Keita Yoshioka	A New Modeling Approach to Natural Fracturing Process	Keita Yoshioka
275	Wednesday 26 June	11:00 am - 12:30 pm	37	Reservoir Geomechanics II	Donald Lee	Quantifying Reservoir Compaction in an Unconsolidated Pliocene Reservoir Using Time-Lapse Seismic, Continuous Downhole Pressure Monitoring, and 3D Finite Element Modeling	Donald Lee
740	Wednesday 26 June	11:00 am - 12:30 pm	37	Reservoir Geomechanics II	Dean Thornton	Predictive Modeling of the Evolution of Fault Structure: 3-D Modeling and Coupled Geomechanical/Flow Simulation	Dean Thornton
536	Wednesday 26 June	11:00 am - 12:30 pm	37	Reservoir Geomechanics II	Lars Grande	Geomechanical, hydraulic and seismic properties of unconsolidated sediments and their application to shallow reservoirs	Lars Grande
219	Wednesday 26 June	11:00 am - 12:30 pm	37	Reservoir Geomechanics II	Karsten Fischer	Field-scale geomechanical modeling of an intensely faulted gas reservoir	Karsten Fischer
461	Wednesday 26 June	11:00 am - 12:30 pm	37	Reservoir Geomechanics II	Miguel Angel Galarraga	Analytical Model of Fault Reactivation for Future Water Injection in a Deepwater Turbidites Oil Field, Offshore Brazil	Miguel Angel Galarraga
374	Wednesday 26 June	11:00 am - 12:30 pm	38	Tunnels and Caverns II	Chrysothemis Paraskevopoulou	A comparison of visous material model mechanics and boundary conditions	Chrysothemis Paraskevopoulou
412	Wednesday 26 June	11:00 am - 12:30 pm	38	Tunnels and Caverns II	Katsumi Kamemura	Effectiveness of advancing horizontal boring for the tunneling in the complex geological formation	Katsumi Kamemura
148	Wednesday 26 June	11:00 am - 12:30 pm	38	Tunnels and Caverns II	Krishna Kanta Panthi	Pre-injection versus post-injection grouting – a review of a case from the Himalaya	Krishna Kanta Panthi
397	Wednesday 26 June	11:00 am - 12:30 pm	38	Tunnels and Caverns II	Jeffrey Oke	Modification of the Supported Longitudinal Displacement Profile for Tunnel Face Convergence in Weak Rock	Jeffrey Oke
532	Wednesday 26 June	11:00 am - 12:30 pm	38	Tunnels and Caverns II	Mark Stephen Diederichs	Ultra-Long Term Geomechanics Design For a Deep Geological Repository in Sedimentary Rock	Mark Stephen Diederichs
352	Wednesday 26 June	11:00 am - 12:30 pm	38	Tunnels and Caverns II	Pinnaduwa Kulatilake	Tunnel stress analyses in 3-D using equivalent continuum and discontinuum procedures	Pinnaduwa Kulatilake
584	Wednesday 26 June	11:00 am - 12:30 pm	39	High Performance Computing: The Challenge of Harnessing HPC	Scott Johnson	Multi-scale fracture creation and network generation during hydraulic fracturing	Scott Johnson
475	Wednesday 26 June	11:00 am - 12:30 pm	39	High Performance Computing: The Challenge of Harnessing HPC	Horacio Florez	A mortar method based on NURBS for curved 3-D interfaces	Horacio Florez
703	Wednesday 26 June	11:00 am - 12:30 pm	39	High Performance Computing: The Challenge of Harnessing HPC	Esteban Rougier	Block Caving Induced Instability Analysis using FDEM	Esteban Rougier
717	Wednesday 26 June	11:00 am - 12:30 pm	39	High Performance Computing: The Challenge of Harnessing HPC	ALEXANDER JOSE VERDE	Efficient Solution of Large-Scale Displacement Discontinuity Problems using the Fast Multipole Method	ALEXANDER JOSE VERDE
226	Wednesday 26 June	11:00 am - 12:30 pm	39	High Performance Computing: The Challenge of Harnessing HPC	Steven R Sobolik	Analyzing the Effect of Large Pressure Changes on the Operational Stability of Large-Diameter Caverns for the Strategic Petroleum Reserve	Steven R Sobolik
363	Wednesday 26 June	11:00 am - 12:30 pm	39	High Performance Computing: The Challenge of Harnessing HPC	Tomofumi Koyama	CFD-DEM simulation for grout injection test using parallel plate fracture	Tomofumi Koyama
501	Wednesday 26 June	11:00 am - 12:30 pm	40	Fracture Statistics and Rock Mass Measures	Cortney Palleske	Impacts of limited data collection windows on accurate rockmass simulation using discrete fracture networks	Cortney Palleske
189	Wednesday 26 June	11:00 am - 12:30 pm	40	Fracture Statistics and Rock Mass Measures	Mahdi Zoorabadi	Semi-analytical procedure for considering roughness effect on hydraulic properties of standard JRC profiles	Mahdi Zoorabadi
381	Wednesday 26 June	11:00 am - 12:30 pm	40	Fracture Statistics and Rock Mass Measures	Peter Cepuritis	Spatial Modeling of Discontinuity Intensity – Challenges and Considerations	Peter Cepuritis
465	Wednesday 26 June	11:00 am - 12:30 pm	40	Fracture Statistics and Rock Mass Measures	Stuart READ	Estimation of Hoek-Brown parameter mi using Brazilian tensile test	Stuart READ
322	Wednesday 26 June	11:00 am - 12:30 pm	40	Fracture Statistics and Rock Mass Measures	Topias Siren	Spatial distribution of Young's modulus, Poisson's ratio and EDZ around TBM and D&B tunnels in hard crystalline rock	Topias Siren
485	Wednesday 26 June	11:00 am - 12:30 pm	40	Fracture Statistics and Rock Mass Measures	Michelle van der Pouw Kraan	The Importance of Specifying Rockmass Failure Mechanisms in Geotechnical Baseline Reports	Michelle van der Pouw Kraan
716	Wednesday 26 June	12:30 pm - 2:00 PM	41	Unconventionals II	Steve Rogers	An initial assessment of the impact of varying perf cluster Design on hydraulic fracture effectiveness	Steve Rogers
173	Wednesday 26 June	12:30 pm - 2:00 PM	41	Unconventionals II	jian huang	Simulating geomechanical evolution of fractured shale reservoir using a poro-viscoelastic constitutive model	jian huang
604	Wednesday 26 June	12:30 pm - 2:00 PM	41	Unconventionals II	Amie Hows	Characterization of anisotropic dynamic mechanical rock properties in shale gas plays	Amie Hows
626	Wednesday 26 June	12:30 pm - 2:00 PM	41	Unconventionals II	Hiroki Sone	Analysis of intra-reservoir stress variations in shale gas reservoirs based on the variation of viscoelastic properties.	Hiroki Sone
349	Wednesday 26 June	12:30 pm - 2:00 PM	41	Unconventionals II	Mikhail Geilikman	Permeability Model of Shale Gas Rock with Variable Solid Mass	Mikhail Geilikman
557	Wednesday 26 June	12:30 pm - 2:00 PM	41	Unconventionals II	Randi Jean Walters	Microseismicity and surface deformation of a heavy oil reservoir undergoing cyclic steam stimulation	Randi Jean Walters
251	Wednesday 26 June	12:30 pm - 2:00 PM	42	Experimental Rock Mechanics III – Novel Rocks and Testing Meth	Alma Ines Ornes	Discontinuum modelling of vuggy carbonate specimens: impact of vugs on strength and stiffness	Alma Ines Ornes
534	Wednesday 26 June	12:30 pm - 2:00 PM	42	Experimental Rock Mechanics III – Novel Rocks and Testing Meth	Andreas Bauer	Impact of acidizing-induced wormholes in chalk on rock strength	Andreas Bauer
393	Wednesday 26 June	12:30 pm - 2:00 PM	42	Experimental Rock Mechanics III – Novel Rocks and Testing Meth	louis zinsmeister	Mechanical evolution of an altered limestone using 2D and 3D digital image correlation	louis zinsmeister
701	Wednesday 26 June	12:30 pm - 2:00 PM	42	Experimental Rock Mechanics III – Novel Rocks and Testing Meth	Esteban Rougier	Split Hopkinson Pressure Bar Experiment Simulation using MUNROU	Esteban Rougier
186	Wednesday 26 June	12:30 pm - 2:00 PM	42	Experimental Rock Mechanics III – Novel Rocks and Testing Meth	Hossein Masoumi	A modified failure criterion with scale effect parameter	Hossein Masoumi



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391	Wednesday 26 June	12:30 pm - 2:00 PM	42	Experimental Rock Mechanics III – Novel Rocks and Testing Meth	Anton Parshin	Continuous Core Thermal Properties Measurements and Analysis	Anton Parshin
291	Wednesday 26 June	12:30 pm - 2:00 PM	43	Uncertainty Quantification and Parameter Estimation in Geomed	Thomas Wick	Parameter Estimation for the Coupled Biot-Lamé-Navier Problem in Subsurface Modeling	Thomas Wick
459	Wednesday 26 June	12:30 pm - 2:00 PM	43	Uncertainty Quantification and Parameter Estimation in Geomed	Connor Langford	Evaluating uncertainty in intact and rockmass parameters for the purposes of reliability assessment	Connor Langford
462	Wednesday 26 June	12:30 pm - 2:00 PM	43	Uncertainty Quantification and Parameter Estimation in Geomed	Janisse N Vivas	Seepage characterization in high rock slopes using remote sensing	Janisse N Vivas
550	Wednesday 26 June	12:30 pm - 2:00 PM	43	Uncertainty Quantification and Parameter Estimation in Geomed	John Harrison	A comparison of Bayesian techniques and non-probabilistic models in rock engineering design	John Harrison
590	Wednesday 26 June	12:30 pm - 2:00 PM	43	Uncertainty Quantification and Parameter Estimation in Geomed	Ernesto Esteves Prudencio	Bayesian Analysis of Earthquake Seismology Models Under Uncertainty	Ernesto Esteves Prudencio
632	Wednesday 26 June	12:30 pm - 2:00 PM	43	Uncertainty Quantification and Parameter Estimation in Geomed	souheil ezzedine	Uncertainty quantification of THMC processes in a stimulated fracture network	souheil ezzedine
175	Wednesday 26 June	12:30 pm - 2:00 PM	44	Rock Mass Strength and Deformability	Derek Martin	Strength of intact rock containing flaws	Derek Martin
377	Wednesday 26 June	12:30 pm - 2:00 PM	44	Rock Mass Strength and Deformability	Jennifer Jane Day	Accounting for rockmass structure in underground and open pit mine design	Jennifer Jane Day
561	Wednesday 26 June	12:30 pm - 2:00 PM	44	Rock Mass Strength and Deformability	Lance Alan Roberts	Viscoplastic behavior of fine-grained geological units and its applicability to compressed gas caverns	Lance Alan Roberts
601	Wednesday 26 June	12:30 pm - 2:00 PM	44	Rock Mass Strength and Deformability	David Unteregger	Damage plasticity model for rock mass	David Unteregger
182	Wednesday 26 June	12:30 pm - 2:00 PM	44	Rock Mass Strength and Deformability	Po Kong Lai	Visual Enhancement of 3D Images of Rock Faces for Rock Mass Characterization	Po Kong Lai
663	Wednesday 26 June	12:30 pm - 2:00 PM	44	Rock Mass Strength and Deformability	Henok Tiruneh	Discontinuity mapping using Ground-Based LiDAR: Case study from an open pit mine	Henok Tiruneh