

Technical Session 1A

23 September, 2018

Room: Narcissus Hall (水仙厅)

Theme: Deep rock mechanics and mining theory		
Session Chair		
Time		Technical Session
23 Sep. PM	14:00 - 14:15	IC3G 18-002 Jianbo Zhu (Tianjin University) <i>Rock Fatigue Characteristics Subject to Repetitive Impacts</i>
	14:15 - 14:30	IC3G 18-003 Yury Derbin (University of Nottingham) <i>Modelling surface subsidence during underground coal gasification</i>
	14:30 - 14:45	IC3G 18-029 Jianfeng Liu (Sichuan University) <i>Time-Dependent Deformation Behavior of Unloading-Fractured Marble</i>
	14:45 - 15:00	IC3G 18-042 Diyuan Li (Central South University) <i>Mechanical characteristics of dry and saturated sandstone under triaxial loading and unloading tests</i>
	15:00 - 15:15	IC3G 18-063 Si Kai (China University of Mining and Technology- Beijing) <i>Energy Analysis on the Mechanism of Acoustic Emission under Cyclic Loading and Unloading</i>
	15:15 - 15:30	IC3G 18-084 Yi Xue (Xi'an University of Technology) <i>Geomechanical and seepage evolution characteristics of coal masses under mining-induced stress paths</i>

Technical Session 1B

23 September, 2018

Room: Hibiscus Hall (芙蓉厅)

Theme: Unconventional oil and gas extractions		
Session Chair		
Time	Technical Session	
23 Sep. PM	14:00 - 14:15	IC3G 18-006 Qiao Lyu (Central South University) <i>Fractal characteristics and acoustic emission of a low-clay shale after CO₂-water-rock interactions</i>
	14:15 - 14:30	IC3G 18-095 Nurudeen Yekeen (Universiti Teknologi PETRONAS, Malaysia.) <i>Laboratory characterization of nanoparticles-stabilized foam for fracturing fluid applications</i>
	14:30 - 14:45	IC3G 18-115 Jianguo Wang (China University of Mining and Technology) <i>Fracturing behavior of shale reservoirs in water, N₂ and SC-CO₂ fracturing process</i>
	14:45 - 15:00	IC3G 18-141 Fei Wang (China University of Petroleum, Beijing) <i>Fracturing-fluid Migration Front Progression in Fractured Gas Shale: Experiment and Numerical Analyses</i>
	15:00 - 15:15	IC3G 18-161 Ngai Wong (The University of Hong Kong) <i>Advances and Challenges of Using Grain-Based Model in Geomechanics Modeling</i>

Technical Session 2A

23 September, 2018

Room: Narcissus Hall (水仙厅)

Theme: Mining Engineering		
Session Chair		
Time	Technical Session	
23 Sep. PM	15:45 - 16:00	IC3G 18-026 Ratan Das (IITB) <i>Assessment causes of overbreak and control measures in underground tunnel during construction stage-A case study in central Himalayas (HP)</i>
	16:00 - 16:15	IC3G 18-053 Ratan Das (IITB) <i>Geological and Geotechnical Problems Encountered during Construction of Butterfly Valve Chamber and Penstock Assembly Chamber of Tehri Pumped Storage Plant</i>
	16:15 - 16:30	IC3G 18-055 Zhiqiang He (Sichuan University) <i>Study on the Mechanical Behavior of Coal and Rock of Different Mining Layouts Considering In-Situ Conditions at Depth</i>
	16:30 - 16:45	IC3G 18-077 Tao Xu (Northeastern University) <i>3D modelling of microwave induced damage and fracturing of hard rocks</i>
	16:45 - 17:00	IC3G 18-085 Qingwen Li (University of Science and Technology Beijing) <i>Experimental study on crushing dissipated energy of deep granite under triaxial geostress condition</i>
	17:00 - 17:15	IC3G 18-102 Guojun Zhang (China University of Mining and Technology, Beijing) <i>The immediate roof periodic fractures of suberect and extremely thick coal</i>
	17:15-17:30	IC3G 18-102 Greg You (Federation University Australia) <i>Effect of faults on stability of partially saturated rock slope</i>

Technical Session 2B

23 September, 2018

Room: Hibiscus Hall (芙蓉厅)

Theme: Petroleum Engineering		
Session Chair		
Time	Technical Session	
23 Sep. PM	15:45 - 16:00	IC3G 18-081 Tianshou Ma (Southwest Petroleum University) <i>Use of risk-controlled model for predicting collapse pressure of vertical and inclined wells</i>
	16:00 - 16:15	IC3G 18-109 Fengqiang Gong (Central South University) <i>Dynamic strength criterion of marble under low loading rate</i>
	16:15 - 16:30	IC3G 18-121 Abhijit Chaudhuri (IIT Madras) <i>Comparisons of residual oil recovery by different types of surfactant and polymer flooding in five-spot wells setup</i>
	16:30 - 16:45	IC3G 18-149 Ratan Das (IITB) <i>Physical and Numerical Model to Investigate Shallow Tunnel Instabilities in Loose Soil</i>
	16:45 - 17:00	IC3G 18-152 J.H. Zhang (Sichuan University) <i>Research on the additional resistant energy effect for supporting structure to surrounding rock in underground powerhouse</i>

Technical Session 3A

24 September, 2018

Room: Narcissus Hall (水仙厅)

Theme: Civil Geotechnical Engineering		
Session Chair		
Time	Technical Session	
24 Sep. AM	08:30 - 08:45	IC3G 18-009 Jianchun Li (Southeast University) <i>Ground motion at a trapezoidal hill under seismic waves induced by underground exploitation</i>
	08:45 - 09:00	IC3G 18-049 Honglue Qu (Southwest Petroleum University) <i>Seismic Response Characteristics of Stabilizing Pile Based on Elastic-plastic Performance</i>
	09:00 – 09:15	IC3G 18-093 Wen Zhang (State Key Laboratory of Hydraulics and Mountain River Engineering, College of Water Resources and Hydropower) <i>Effect of deep unloading zone on working performance of arch dam abutment: a case study in the Yebatan Hydropower Station</i>
	09:15 – 09:30	IC3G 18-112 Prakash Luitel (Tribhuvan University) <i>Study of geo-mechanical characteristics and stability of half-tunnel at Dharapani along Besisahar - Chame road section, Manang</i>
	09:30 - 09:45	IC3G 18-155 Yulong Chen (Tsinghua University) <i>Monitoring and early warning of rainfall induced soil slope failure using elastic wave velocity</i>
	09:45 - 10:00	IC3G 18-156 Honglue Qu (Southwest Petroleum University) <i>A Review of Research on Dynamic Interaction between Soil and Buried Pipeline under Earthquake</i>

Technical Session 3B

24 September, 2018

Room: Hibiscus Hall (芙蓉厅)

Theme: CO2 sequestration technologies and nuclear waste disposal, and Geothermal energy		
Session Chair		
Time	Technical Session	
24 Sep. AM	08:30 - 08:45	IC3G 18-025 Changbing Zhang (Sichuan University) <i>3-D Numerical Prediction of Vortices Group in Multiple Francis Turbines based on RNG-ELES Approach</i>
	08:45 - 09:00	IC3G 18-088 Dornadula Chandrasekharam (Indian Institute of Technology Hyderabad) <i>High heat generating granites of Saudi Arabian shield. Future candidates for CO2 emissions reduction and climate mitigation</i>
	09:00 – 09:15	IC3G 18-129 Bisheng Wu (CSIRO/Tsinghua university) <i>Effect of well layout on the output performance of enhanced geothermal system with multiple wells and areal flow</i>
	09:15 – 09:30	IC3G 18-133 Zhenlong Song (State Key Laboratory of Coalmine Dynamics and Control, Chongqing University) <i>An Acoustic loading plant Emission Devicend and Its Application</i>
	09:30 - 09:45	IC3G 18-137 Wei Wu (Nanyang Technological University) <i>Understanding the fundamentals of injection-induced seismicity</i>
	09:45 - 10:00	IC3G 18-151 L. Zhuang (Korea University of Science and Technology) <i>Preliminary laboratory study on initiation and propagation of hydraulic fractures in granite using X-ray Computed Tomography</i>

Technical Session 4A

24 September, 2018

Room: Narcissus Hall (水仙厅)

Theme: Geo-Environmental Engineering		
Session Chair		
Time	Technical Session	
24 Sep. AM	10:15-10:30	IC3G 18-017 Yu Zhang (Beijing Jiaotong University) <i>Calculation methods of seepage coefficient for clay based on the permeation mechanism</i>
	10:30-10:45	IC3G 18-051 Ying Wang (Beijing Normal University) <i>The application of a geographically weighted logistic regression model for earthquake-triggered landslide susceptibility mapping on different geographic scales</i>
	10:45-11:00	IC3G 18-073 Xiaoshuang Li (Jiangxi University of Science and Technology) <i>Study on the law of ground pressure obliquity effect with gently inclined thin to medium thickness phosphate body from open-pit to underground</i>
	11:00-11:15	IC3G 18-099 Qiang Zhang (Institute of Rock and Soil Mechanics (IRSM), Chinese Academy of Sciences) <i>Permeability evolution of fracture during slipping under normal stress condition</i>
	11:15-11:30	IC3G 18-124 Yixin Zhao (China University of Mining and Technology, Beijing) <i>Neutron radiography study of water imbibition in unsaturated sandstone: A time-fractal model to predict the dynamic of wetting front</i>
	11:30-11:45	IC3G 18-131 Maged Al Mandalawi (Federation University Australia) <i>Extension strain initiation and distribution around open pit slope</i>

Technical Session 4B

24 September, 2018

Room: Hibiscus Hall (芙蓉厅)

Theme: Water resources development and protection		
Session Chair		
Time		Technical Session
24 Sep. AM	10:15-10:30	IC3G 18-057 Licheng Sun (Sichuan University) <i>An investigation on the effect of divergent angle on performance of Venturi-type bubble generators</i>
	10:30-10:45	IC3G 18-096 Baoquan Yang (Sichuan University) <i>Overall Stability Analysis of a High Arch Dam Based on Physical Modeling and Numerical Simulation</i>
	10:45-11:00	IC3G 18-123 Abhijit Chaudhuri (IIT Madras) <i>Estimation of permeability field from sparse measurements of local permeability and water table fluctuations</i>