



T15.1 - Engineering Geology and Geomechanics	<i>Date</i> Monday, 29 August 2016	<i>Time</i> 14:00 to 15:30
	<i>Chair</i>	<i>Room</i> Hall 4B1

Times		Paper # Title	Speaker
14:00	14:15	5257 The deterioration of building stones by salt crystallization	Dr. Maria Heloisa Barros De Oliveira Frascá
14:15	14:30	894 Natural Stones of Malawi: Key to Economic and Sustainable Development	Ms. Tamara Faith Kamanga
14:30	14:45	5018 Impacts of anisotropy of the fossil content on the electric behaviour and anisotropy of the highly fossiliferous limestone of Samalut Formation, Egypt: A case study	Dr. Bassem Nabawy
14:45	15:00	1419 "Giallo Siena" marble (Italy): a nomination for "Global Heritage Stone Resource"	Dr. Piero Primavori

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16:00	16:15	3364 Heritage stones as part of the Global Geoheritage	Dr Björn Schouenborg
16:15	16:30	3363 Martinamor granite, revisited	Dr. Lola Pereira
16:30	16:45	4264 Estremoz Marble: A nomination for 'Global Heritage Stone Resource' from Portugal	Prof. Luís Lopes
16:45	17:00	356 Heritage Stone in South Australia	Prof. Barry J. Cooper
17:00	17:15	1418 Botticino marble (Italy): a nomination for "Global Heritage Stone Resource"	Dr. Piero Primavori
17:15	17:30	1964 Lower Cretaceous building sandstones in NW-Germany and their worldwide use	Dr. Angela Ehling
17:30	17:45	4842 The significance of Macael region (SE of Spain) in the use of the natural stone in Spain	Dra. Dolores Pereira

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	4288 Sandstone building materials, their geoprocessing and thermal properties	Prof. Antoine F Mulaba-Bafubiandi
	3956 A Study on Quaternary Geological Characteristics and Land Subsidence Life Process in the Lower Yangtze Delta Area of China	Prof. Hongtao Jiang
	2339 Mechanical Properties of Adobe blocks used in Building Construction in Huambo Province - Angola	Dr. Isabel Duarte
	3160 Investigation of CO ₂ -rock-wellbore cement interaction – experimental study	Dr. Krzysztof Labus
	2815 Pozzolanic reactions of calcined clays: study to an improved utilization	Prof. Lidia Catarino
	1663 Formation of geological risk upon tunnel construction in water-saturated fine-grained soils	Dr. Irina Kozlyakova
	4946 Methods of earth building in the Huila Province, Angola	Dr. Isabel Duarte
	3362 Protection and valorisation of industrial heritage related to Global Heritage Stone Resources in Belgium	Dr Dolores Pereira
	2716 Classification of surrounding rock of large underground water-sealed storage caverns based on evolution back-propagating neural network	Dr. Lv Feifei professor Yan Echuan Dr. Wang Lunan Dr. Gao Xu Dr. Cui Xuejie
	3942 Natural radioactivity in Spanish granites: observations on different slab finishes.	Dr Dolores Pereira
	2118 Resourcing Future Generations: Economic Impacts from Construction of a Raw Water Pipeline	Prof. Becky Johnson
	1896 A case study determining the stability of land affected by shallow under mining for urban development in Old Coronation, Witbank coalfield area	Mr. Sibonakaliso Chiliza
	1741 Analysis of present-day stress based on Stress Measurement and Numerical Simulation Method in Qinshui Basin, Shanxi Province, China	Mr. Ke Xu
	2017 Proposal of classification for roofing slates	Dr. Victor Cardenes
	1854 The Effect of Petrographic Characteristics on the Strength of Selected Basaltic Rocks from Turkey	Dr. Atiye Tugrul

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08:30	08:45	909 An Investigation of the Geotechnical Conditions and Stability of the Town Bush Valley, Pietermaritzburg, South Afric	Mr Keval Singh
08:45	09:00	5180 Assessing multi-sensor technologies and methods in monitoring landslide movement in Canada	Dr. Peter Bobrowsky
09:00	09:15	2276 Rock Mass Characterization for Stability Analysis of Cut Slopes in the Ophiolites of Hajar Mountains of UAE & Sultanate of Oman.	Mr. MOHAMMED J AHMED
09:15	09:30	917 Kinematic behaviour of a large landslide in the three gorges reservoir – Constraints from field monitoring	Prof. Bao-Ping Wen

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10:30	10:45	4983 Landslide hazard assessment through forcing activation of a landslide and conducting of monitoring	Ph.D. Andrey Kazeev
10:45	11:00	233 Geo-engineered slope failure at the power house pit of a power project in the Himalayas, Himachal Pradesh, India – causes and remedies	Mr. Ashok Kumar

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14:00	14:30	4587 Slope optimization of an operating open pit mine	Ms. Clarice Romer	Keynote
14:30	14:45	1399 3D implicit modelling and geometrical analysis of structural fabrics: Implications for future pit design and optimization	Dr. Ian Basson	
14:45	15:00	803 Rock mass characterisation of the country rock on the eastern slope of Main Pit at Letšeng Diamond mine, Lesotho	Mr. Nkopane LEFU	
15:00	15:15	5612 PREVAILING GEOTECHNICAL HAZARDS AT LETŠENG DIAMOND MINE AND THEIR MITIGATION	Ms. Nthabiseng Lephatsoe	
15:15	15:30	1676 Formation Mechanism and Stability of a Gentle Dip Bedding Rock Slope: A case Study at Shimen Silica Mine, Liaoyang, China	Dr. Jiewei Zhan	

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16:00	16:15	1982 Distribution regularities of co-seismic landslide triggered by Ludian earthquake	Mrs. Yu ZOU
16:15	16:30	1054 Seismicity, neo-tectonics and landslide initiation in the Trans-Himalayas of North East India - Studies from Tezu-Hayuliang- Chaglogam corridor of Arunachal Pradesh.Arunachal Pradesh	Mr. Theophilus P. k.
16:30	16:45	2072 Ground Penetrating Radar Studies and Influence of Anthropogenic Factors on Some Landslides of Northeast India	Dr. Ibotombi Soibam
16:45	17:00	5566 Numerical modelling of toe buckling deformation in Haast Schist, Central	Romy Ridl

Times	Paper # Title	Speaker
	102 An engineering geological investigation for the expansion of Maputo Port, Mozambique.	Mr. Paul Aucamp
	3366 Art museums. A perfect context for outreach activities on stones	Dr. Lola Pereira
	2415 Analyses of a rock fall release area and associated deposits in the Swiss Alps using photogrammetric data obtained by an Unmanned Aerial Vehicle	Dr. Martin Ziegler
	1853 Assesment of Natural Stones and their Deterioration Types used in Blue Mosque (Istanbul, Turkey)	Dr. Murat Yilmaz
	4306 Mineralogical composition, weathering products and sinkhole formation of two different karst units in South Africa	Mrs. Tharina Oosthuizen
	1557 Engineering geological and geotechnical mapping undertaken by Council for Geoscience for regional land-use planning in South Africa	Mr. Njabulo Nxumalo
	3166 5th European Railway Corridor Crosses Classical Karst, Slovenia	Dr. Martin Knez
	2626 Anisotropic parameter using core plugs and full-wave sonic logs	Dr. Seonghyung Jang
	2674 3D reconstructions of gneiss quarries through long-range laser scanning for a quantitative volume estimation of dimension stones	Prof. Silvio Seno
	2027 Geotechnical Investigations into the cracks in Buildings: A case study	Ms. Portia Tshepiso Lettloe
	5153 Corrosion attack mechanisms of acid mine drainage on concrete	Ms. Nomvelo Mkhize

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08:00	08:15	980 Suitability of lateritic soils in the construction/development of sustainable housing in Africa: A Geological Perspective.	Mr. Charles A. Oyelami
08:15	08:30	1433 Quantitative Determination of Sphericity and Roundness of Pebbles and Sand Grains	Dr. Tamas Jasko
08:30	08:45	5503 The potential use of aeolian sands in roads in Limpopo	Prof. Philip Paige-Green
08:45	09:00	1977 Using geophysics to find suitable rock aggregates as replacement for fluvial sand in Botswana	Mr. Onkgopotse Ntibinyane
09:00	09:15	5029 Crushed aggregate potential in Newcastle, KZN Province, South Africa	Dr. Souleymane Diop
09:15	09:30	5099 Local raw material building: history and challenges in Uruguay	Dr. Marcos Musso

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10:30	10:45	1658 Geological hazards and the construction of new metro routes in Moscow	Dr. Olga Eremina
10:45	11:00	4161 Finite Difference Modelling of Seepage in a Region of the Foundation Rock Below a Concrete Gravity Dam Wall	Mr. André Joubert
11:15	11:30	3639 Tunnelling in Himalayas Under Water Charged Conditions: Estimation and Remediation	Dr. K.Seshagiri Rao Mr. ARINDOM CHAKRABORTY
11:15	11:30	2012 Assessment of rock slope failure analysis and rock mass Characterization along a road-cut (NH-108) in Sub-Himalaya region, India	Mr. Anil Kumar Gupta
11:30	11:45	1887 How fractographic analyses uncover complex trends of modern and palaeo principal stresses	Dr. Martin Ziegler
11:45	12:00	2728 Applying urban-scale 3D subsurface modeling to sustainably manage the underground assets of Rotterdam (NL)	Dr. Jeroen Schokker

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14:00	14:15	4481 Insitu Estimation of Swelling Pressure Using Inundated Plate Load Test on Marl/ Clay of Duqm Area, Sultanate of Oman - A Case Study	Mr Khaleel M Musthafa
14:15	14:30	4336 Geotechnical centrifuge modelling of transverse hydrodynamic dispersion in uniform unsaturated material	Mr. Brendon Jones Luke Brouwers
14:30	14:45	2175 Numerical simulation on Coupling of Stress-Flow within a Single Fracture	Dr. XueJie Cui
14:45	15:00	1053 Controlling Hydraulic Conditions of the Excavation-Damaged Zone at the Äspö Hard Rock Laboratory, Sweden	Prof. Lars O. Ericsson
15:00	15:15	3888 The use of geophysics in ground investigation	Ms. Marie Fleming
15:15	15:30	4059 Advances to the Modelling of Variably Saturated Fracture Flow using the Geotechnical Centrifuge in South Africa	Mr. Brendon Ronald Jones

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16:00	16:15	4265 Development of Technology for Directional Drilling- Results of Drilling and Survey in the Borehole -	Dr. Kenzo Kiho
16:15	16:30	3073 USE OF MULTIFERROIC ALLOY TO CONVERT WASTE HEAT FROM NON-COMMERCIAL GEOTHERMAL WELLS TO ELECTRICITY	Mr. Kulundu Levi
16:30	16:45	2805 Geomorphology and rock slope instabilities in the archaeological site of Petra (Jordan)	Dr. Daniele Spizzichino
16:45	17:00	310 Cation exchange in the montmorillonitic soil as a low cost measure to improve its shear strength	Dr. Sudipta Sarkar
17:00	17:15	568 Centrifugal modelling of an embankment on soft soil with soil-cement columns and prefabricated vertical drains	Ms. Qingwen Zhang
17:15	17:30	2642 Field vs.laboratory analysis of sound velocity of sediments from Huanghai and Bohai	Mrs. Jiewen Zheng Mr. Xiaolei Liu

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	5182 The origin of the rock of stonewalls in the Hitsujisaru and Tatsumi tower traces of the Yamagata Castle	Prof. Yukiko Ohtomo
	3615 Development of Technology for Directional Drilling – Long-term Monitoring and Automatic Data Acquisition System -	Mr. Akira Shidai
	4760 Geo-environment characteristics of weathering deterioration of Tongtianyan Carved Stone Relics, China	Prof. Xu GuangLi
	2561 Study on the engineering properties of the mucky soft soil in Guizhou, China	Dr. Xin Liao
	1918 Geophysical Investigation for Engineering Site Characterizations of Wachamo University, North-east of Hosanna, Southern Ethiopia	Mr. Yonatan Garkebo Doyoro
	2820 Mechanism and control measures of a large deformation across the granite alteration zone in An Ping Tunnel	Dr. Zhang Guo Hua

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08:00	08:15	1086 Rockfall hazard analysis in Deccan Plateau: A case study from Malshej Ghat, Maharashtra, India	Mr. Ravi Kumar Umrao
08:15	08:30	1490 Characteristics, mechanism and stability for the expansive soft rock landslide located in Xinyan section of Wang-Yan highway in Jilin Province, Northeastern China	Dr. Xudong Han
08:30	08:45	1787 Influence of Confining Pressure on the Mechanical Mechanism of Soil-rock Mixture	Mr. Jiaguo XIA
09:00	09:15	2393 Delineation of Orientation Data Randomly Distributed in Rock Mass and Its Fractal Dimension	Dr. Jianping Chen
09:15	09:30	543 Estimation of the REV size of fractured rock masses based on blockiness	Dr. Lu Xia
09:30	09:45	670 Prediction of the shear strength of discontinuities by a single shear test	Prof. Kamil Kayabali
09:45	10:00	3142 USE OF HOT FRACTURED ROCK TECHNOLOGY TO ENHANCE THE PRODUCTIVITY OF NON-COMMERCIAL GEOTHERMAL WELLS	Mr. Kulundu Levi

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10:30	10:45	672 Prediction of consistency limits and undrained shear strength by a single and simple tool	Prof. Kamil Kayabali
10:45	11:00	1640 Geotechnical Properties of Pedological Soil Groups	Ms. Ernestine Schmidhuber
11:00	11:15	2648 Engineering properties of Chinese loess discharged from the Yellow River into the sea	Mr. Xiaolei Liu
11:15	11:30	593 Prediction of Frost Heaving Behavior of Saline Soil in Western Jilin Province by ANN Methods and Sensitivity Analysis for the Affecting Factors	Dr. Xudong Zhang

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14:00	14:15	2099 FREEZE THAW RESISTANCE OF DIYARBAKIR CITY WALLS	Prof. Dr. Tamer TOPAL
14:15	14:30	3045 Engineering Geological Mapping, an application to Outapi, north-central Namibia.	Ms. Giesberta Shaanika
14:30	14:45	4956 The Influence of Aperture on Flow Regimes in a Single Smooth Fracture	Ms. Katlego Segole
14:45	15:00	784 Geological and Geotechnical Investigations of Axum Dam Site, Tigray, Northern Ethiopia	Mr. Leulalem Shano

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16:00	16:15	2709 Appropriate investigation of dolomitic areas	Mr. Tony A'Bear
16:15	16:30	3976 Palaeogeomorphology And Its Controlling Effect on Karst Reservoirs In Tahe Oilfield, Tarim Basin	Mr. Changcheng Han
16:30	16:45	2531 Karst Collapse Occurrences and Investigation in China	Prof. Mingtang Lei
16:45	17:00	2060 Weathering rate of ancient limestone inscription in Beixiangtang Temple Grottoes□China	Assoc.Prof. Lihui Li

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08:00	08:15	2708 Structural geological models: An essential information for civil engineering works. - Tapovan HEPP, Himalaya, India	Mrs. Waltraud Genser
08:15	08:30	2558 Study on the parameters selection of Peck formula for the twin-track tunnel in the sandy-pebble stratum	Professor Xiyong Wu

Times		Paper # Title	Speaker
10:30	10:45	1798 Effects of pore structure on the reservoir gas capacity of Carboniferous shale from Qaidam Basin, China	Professor Qingchun Yu
10:45	11:00	2240 Geological investigations for the future expansion of the SADC Gateway Port of Walvis Bay, Namibia, influence of terrestrial and marine sedimentology on Port development.	Dr. Robert Leyland
11:00	11:15	4034 Effects of waves and currents on sediment erosion: A case study in China by in-situ observation	Mr. Chaoqi Zhu

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14:15	14:30	2781 Geomorphology and rock slope instabilities in the archaeological site of Petra (Jordan)	Dr. Claudio Margottini