

Technical program

Note: The content of the program may be subject to minor changes

**Sunday 08
March 2020**

16:00 ICGE'20 Registration

Event Opens

17:00 Conference welcome

Time	CLÉOPATRE ROOM		
08:30	ICGE'20 Opening Ceremony - Welcome address: Prof. M. Bouassida (ISSMGE Appointed member) - Prof. E.M. Kana (ISSMGE VP for Africa) -		
	Plenary Session 1: Chair: Prof. Mounir BOUASSIDA (appointed member ISSMGE)		
09:00	An overview on ISSMGE Keynote lecture 1: Effects of horizontal and vertical stress relief on the capacity and deformation of friction piles Prof Charles Wang Wei NG (Hong Kong, President of ISSMGE) (Visio Conference)		
10:00	Keynote lecture 2: Data-driven decision making in geotechnics - Myth or reality? Kok Kwang PHOON (Singapore, appointed member ISSMGE) (Visio Conference)		
10:45	Tea/coffee Break		
	Plenary Session 2: Chair Prof. Etienne Marcelin KANA (VP for Africa, ISSMGE) - Co-chair Prof. Mounir BOUASSIDA (appointed member ISSMGE)		
11:15	Keynote lecture 3: Geometric Aspects of Natural Hazards Monitoring Michel KASSER (Institut National de l'information géographique et forestière, Switzerland)		
12:00	Keynote lecture 4: Geotechnical Hazards-lessons learned from case histories Pedro Sêco e PINTO (Portugal, ISSMGE appointed member) (Presented by.....)		
12:45	Lunch		
	Parallel Sessions		
	CLÉOPATRE ROOM	CÉSAR ROOM	LUXOR ROOM
	Theme 1A: Geotechnical engineering: Foundations: Chair Prof. R. BAHAR	Theme 2A: Geomatics, Georisk and environment: Chair Prof. M. Kasser - Co-chair Prof. M. Mastere	Theme 3A: Rock mechanics: Chair Prof. J. NEJI
14:00	Experimental pile subjected to long duration thrusts due to a moving slope R. FRANK (Immediate ISSMGE President), France (Visio Conference)	Integrated Coastal Zone Management Using Remote Sensing and Hydrography R. MOHAMED ABDALLA (Oman)	Joint enriched finite element method and cohesive fractures for modeling fractures in Rock Mechanics A. POUYA & Kyeung HYE AHN (France) (Presented by E. Hamdi)
14:30	Analysis of deep foundation in Dubai sedimentary rock R. KATZENBACH & S. LEPLA & M. ALZAYLAIE (Germany)	Modelling the coast behavior at high frequency synchronous to the diurnal movement of high and low tides during neap and spring tides periods; Study case: North Eastern coastal zone of Tunisia N. REBAI, S. DAASSI, M. KALLEL, Z. YAHYAOUI & S. ABDEL JAOUED (Tunisia)	The role of petrophysical parameters and geoseismic study for the characterization of petroleum reservoirs in the Chaal and Chorbane blocks (Eastern Tunisia) A TOUKABRI, W. ABDELKHALEK, S. KHEMIRI, S. BEN MOUSSA, & F. MELKI (Tunisia)
14:45	Development of Load Transfer Curves for Estimating the Settlement of Axially Loaded Recharge Impulse Technology (RIT) Piles BOUASSIDA W., HAMDI E., BOUASSIDA M. & KHARINE Y. (Tunisia)	Using a combined GIS-multicriteria analysis methodology for natural resources protection: a case study for OMW disposal sites choice R. SHABOU, A. KALLEL, M. ZAIRI & H. BEN DHIA (Tunisia)	Ultrasonic measurements-based index to study thermally-induced micro cracking in rock aggregates S. EZZEIRI, O. BEN ALI, E. HAMDI (Tunisia)
15:00	Comparative Study for Raft Design Based on Sap and 3D Plaxis Analysis G. ELSAYED ABDELRAHMAN, M. HUSSEIN and H. EMAD (Egypt)	Open GIS Data and remote sensing to study the seismic risk in Tunisian Atlas A. CHAIEB, A. FRIDHI & N. REBAI (Tunisia)	Evaluating Reservoir Strength Parameters from Geophysical Well Logs: NC - 115, MURZUQ BASIN, LIBYA K.I. AI SAMARRAI, M. M. ABDALLAH, K. IBRAHIM (Tunisia)

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15:15	Probabilistic Capacity Analysis of Strip Foundations under VM Combined Loading T. KORMI, A. ABAA, M. SELMI & N. BELHADJ ALI (Tunisia)	Modeling of a 3D model in a GIS: Application by Augmented Reality A. FRIDHI, A. CHAIEB & N. REBAI (Tunisia)	A methodology to determine the deformation modulus of a highly jointed rock mass using field data and Finite Element method S. SOUSSI, M. CHALHOUB, A. POUYA & E. HAMDI (Tunisia)
15:30	Tea/coffee Break		

Parallel Sessions			
	CLÉOPATRE ROOM	CÉSAR ROOM	LUXOR ROOM
Monday 09 March 2020	Theme 1 B: Geotechnical engineering: Ground Improvement: Chair Prof. C.F. Leung	Theme 2 B: Geomatics, Georisk and environment: Chair Prof. M. Kasser - Co-chair Prof. N. Rebaï	Theme 3 B: Rock mechanics: Chair Prof. E. Hamdi
	16:00 Bearing Capacity of Floating Bottom ash Columns: Experimental Study A. SAFUAN (Malaysia)	Les Risques naturels au Maroc : État des lieux et perspectives M. MASTERE (Morocco)	Ultimate Slope Design for an Open Pit Phosphate Mine using Geological and Geomechanical Analysis: Case Study of Jebel Jebbeus R. AHMADI (Tunisia)
	16:30 Lateral expansion of granular piles under vertical loading: Numerical and experimental investigation TABCHOUCHE S. & BOUASSIDA M. (Algeria)	Designing a generic process for multi-criteria topological analysis M. A.B. SOUSSI, C. ZAKI, R. HADDAD & N. REBAI (Tunisia)	Reliability Analysis of Slope Stability Based on Limit analysis Methods using Monte Carlo Simulation S. DJELLABI (Tunisia)
	16:45 Compressive Study to Improve Swelling Soil by Using Geofabric Technique G. EL SAYED, M.N. HOSNI & W. E MOHAMMED (Egypt)	Inundation risk assessment in arid climate using GIS-based multicriteria-AHP analysis, case of the Jeffara Southeastern Tunisia. I. MEZNI, H. CHIHI, F. CHIHI & N. REBAÏ (Tunisia)	Effects of thermal variation on the limit pressure in a cylindrical cavity expansion I. GAALOUL, S. MONTASSAR, W. FRIKHA (Tunisia)
	17:00 Slope Erosion Protection Using Flexible Structural Facing : The Case Study Of Mellousa At The Moroccan Railways A. GRIMOD (France) (Presented by M. Bouassida)	Methodological approach for cartographic modeling and spatial analysis of landslide factors in the Korbous region (Cap Bon - Tunisia) R. FATHALLI, N. REBAI, J. M. JEMAI, & M. BOUGHDIRI (Tunisia)	Shear waves velocity Vs for soils and rocks correlated to density γ_d J. C. GRESS & M. FERREIRA (France)
	17:15 Effect of sand and kaolinite on bentonite swelling M. C. MECHRI, A. MEDJNOUN and R. BAHAR (Algeria)	Impact of irrigation by treated wastewater on the soils of sites in Ariana irrigated perimeters (Tunisia) I. SMAANI, S. GANNOUNI, S. BOUSSEN & N. REBAI (Tunisia)	Rockfall 3D Analysis in a reservoir and power plant area departing from photogrammetry by drone R. Quintana, & R. Retuerto (Spain)
	17:30 Reduction of Improvement Area Ratio associated to increased deformation modulus of soil improved by stone columns ZOUABI M. & BOUASSIDA M. (Tunisia)	Numerical Simulations of Rainfall-Induced Slope Instabilities F. HAMROUNI, H. TRABELSI & M. JAMEI (Tunisia)	Hasdrubal field [Tunisia]: geomechanical integrity study K. BEN ABDALLAH, S. SOUSSI & E. Hamdi (Tunisia)

Time	CLÉOPATRE ROOM		
	Plenary Session 3: Chair: Prof. Mounir BOUASSIDA		
09:00	Keynote lecture 5: Geotechnical challenges and solutions to container port construction Prof Colin F. LEUNG (Singapore)		
9:45	Keynote lecture 6: The thermo-hydro-mechanical behavior of clays and claystones Prof Pierre DELAGE (France) (Visio Conference)		
10:30	Tea/coffee Break		
	Plenary Session 4: Chair Prof. Essaieb Hamdi		
11:00	Keynote lecture 7: Integrated Satellite, UAV and ground-based assessment of landslides in Lefkada, Greece, following the November 17 2015 Mw 6.5 earthquake Prof Dimitrios ZEKOS (USA) (Visio conference)		
11:45	Keynote lecture 8: Ultimate Bearing capacity of soil using the pressure-deformation relationships of a plate test Prof. E.M. KANA (Cameroon)		
12:30	Lunch		
	Parallel Sessions		
	CLÉOPATRE ROOM	CÉSAR ROOM	LUXOR ROOM
	Theme 1C: Geotechnical engineering: Foundation Design: Chair: Prof S. Leppla, Co-chair R. Bahar	Theme 2C: Geomatics, Georisk and environment: Chair: Prof. M. Mastere - Co-chair Prof. N. Rebaï	Theme 1D: Geotechnical engineering: Foundations: Chair: Prof. M. Bouassida
14:00	Geotechnical Design - are we getting it right P. DAY (South Africa) (Visio conference)	Conception et modélisation d'un SIG WEB 3D pour la planification urbaine. Etude de cas Siliana - Tunisia S. MRABET, B. SFAXI, A. MOUSSI & N. REBAI (Tunisia)	Suffusion analysis in compacted loessic silty soils International with granular filters R. TERZARIOL (Argentina)
14:30	Void ratio effect on bearing capacity of pile embedded in cohesive soil J. KAMOUN & M. BOUASSIDA (Tunisia)	Implementation of a GIS solution for the management and dissemination of information within the municipality of Nabeul - Tunisia. A. MOUSSI, S. MRABET & N. REBAI (Tunisia)	Effect of Linear Equivalent Soil Behavior on the Seismic Response of a Surface Square Foundation Excited by Harmonic (SH) Wave H. BELKHIR & B. SBARTAI (Algeria)
14:45	Vertical and horizontal dynamic impedances of suction foundations S. BOUNEGUET (Algeria)	Best sites for the deposit of building and public works waste in the governorate of Bizerte- Tunisia R. HADDED, B. SOUSSI & C. ZAKI (Tunisia)	Elevation of the Bouhertma Dam, Tunisia: mechanical stability of the body of the dam N. GRAJA, M. ZAÏRI & B. JARRAY (Tunisia)
15:00	Wall Displacement Modes Dependent Passive Earth Pressure Analysis M. FAKHREDDINE BOUALI & M. BOUASSIDA (Algeria)	Restoration of a monument through photogrammetric archiving of architectural elements: case of Marinid sites in Rabat-Morocco SIMOU, S., BABA, K., NOUNAH, A. & ARAB, A. (Morocco)	Effect of porosity distribution in unsaturated hydraulic behaviour of clayey soil during desiccation. F. LOUATI, H. TRABELSI (Tunisia)
15:15	An investigation on coefficient of consolidation of Tunis soft clay D. AZAIEZ & M. BOUASSIDA (Tunisia)	Geotechnical data analysis for rational development planning: case study of Beni-Ensar city (NE Morocco) A. AZOUGAY, H. REZQI, M. OUJIDI, A. CHAARAOUI (Morocco)	Contribution to geotechnical database for Tunis soil N. MEZNI & M. BOUASSIDA (Tunisia)
15:30	Tea/coffee Break		

Parallel Sessions		
	CLÉOPATRE ROOM	CÉSAR ROOM
	Theme 1E: Geotechnical engineering: Miscellaneous: Chair: Prof. Chian Sian Chen ; Co-chair A. Loulizi	Theme 1F: Geotechnical engineering: Soil characterization: Chair: Prof. A. Safuan
16:00	Construction of Social Infrastructures for Songdo Economic Free Zone in Incheon E.C. SHIN (South Korea) (Recorded)	The impact of variability of soil properties on characteristic values for geotechnical design P. STOTT (South Africa)
16:30	Evaluation of Liquefaction Potential of Tripoli Soil Using SPT A. M. BAHRON & El MANNAI. M & Samarraï. K (Libya)	DEM simulation of crushable expanded clay subjected to 1D compression test H. BEN JAMAA, GHEZAL L. & JAMEI M. (Tunisia)
16:45	Assessment of liquefaction risk by Standard Penetration Test (SPT): Foundation of Sidi El Barrak Dam (Tunisia) H. KAROUI & M. BOUASSIDA (Tunisia)	Numerical Study of Saturated Soils in Oedometer test H. AGRAINE, M. F. BOUALI & A. MESSAMEH (Algeria)
17:00	High-energy absorption rockfall-barriers CE marked A GRIMOD (France) (Presented by M. Bouassida)	Approximations of friction angle and cohesive strength of normal soil based on Standard Penetration test data, Tripoli, Libya M. El MANNAAI., Khalil I. Al-SAMARRAI, A. M. BAHRON (Libya)
17:15	Evaluation de la consommation énergétique et du coût de réalisation d'une chaussée inverse W. TAKTAK & A. LOULIZI (Tunisia)	
17:30	Poster Session: (Hall)	
	Heave prediction of square footing in an expansive soil using 3D numerical modeling A. KHENNOUF & M. BAHEDDI (Algeria)	
	Non-Linear Harmonic Seismic SH Wave Response of 3D Rigid Surface Foundation B. SBARTAI & H. BELKHIR (Algeria)	
	Pile-Supported embankment: experimental approach S. FELLOUAT (Algeria)	
	Impact de nitrate d'uranyle sur la germination des graines de Cleome ambryocarpa A. BENNAOUM , H. HAMAD, Y. REGUIEG & H. ABDELHAKIM (Algeria)	
	Reduction of the sulphate content of the sediments of the commercial port of Sfax for a possible reuse in road construction A. BEN SLEMA, N. FEKI & M. ZAÏRI (Tunisia)	
	Study of the behavior of soils reinforced by nails or micropiles based on composite materials (polymer re-inforced by glass fibers) C. Sghaier, S. Ellouze, M. Bouassida & A. Daoud (Tunisia)	
	Numerical modeling of risks of natural landslides stabilized by reinforcement systems D. AMRANI (Algeria)	
	Contribution of multi-temporal remote sensing images in the characterization of unstable slopes: case study of Souk Ahras N.E Algeria I. BEN ABID (Algeria)	
18:30	Characterization of sub-watersheds by morphometric indices for morphotectonic analysis in a GIS environment Case of study; Siliana region O. Hammemi, S. Daassi , A. Moussi & N. Rebai (Tunisia)	