(A geotechnical collaboration between Singapore & Malaysia)

CONFERENCE PROGRAMME

30 November 2023				
1000	Opening Address Prof Leung Chun Fai, Conference co-Chair Dr Karthikeyan Muthusamy, GeoSS President Ir Lee Peir Tien, MGS President Dr Marc Ballouz, ISSMGE President			
	Chairperson : Dr Karthikeyan Muthusamy			
1020	ISSMGE Presidential Lecture Geotechnical Marriage between Theory & Practice Dr Marc Ballouz			
Chairperson : Prof Tan Thiam Soon				
1105	Keynote Lecture 1 Impact of Climate Change on Coastal Infrastructure Prof Yong Kwet Yew			
1150	Keynote Lecture 2 Types and Impacts of Debris Flow Failure in Tropical Hilly Terrain and Development Areas and Its Practical Rehabilitation Solutions Ir Liew Shaw Shong			
1235	Lunch			
	Chairperson : Er William Chong and Ir Colin Lim			
1315	Keynote Lecture 3 Planning for the Underground in Singapore Dr Goh Kok Hun			
1400	Bright Spark Lecture 1 Deep Excavation in Weathered Quartz - A Case History of an Underground Station Construction in Kuala Lumpur Dr Chia Weng Boon			
1430	Bright Spark Lecture 2 Mitigating Risk of Impact of Existing Structure due to Urban Pipe Jacking Mr Lee Long Guang			
1500	Tea Break			

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30 November 2023				
	Parallel Session : Excavations and Tunnelling	Parallel Session : Field Testing and Performance		
1530	Chairperson : Dr Lai Woei Tong and Dr Dominic Ong	Chairperson : Dr Poh Teoh Yaw and Ir Chow Chee Meng		
	Challenges of Bored Tunneling Works along Keppel Road Pan How Yen, WSP Consultancy Pte Ltd,	Fibre Optics Sensor for Pile Load Testing in Singapore's High Rise Public Housing Projects		
	Singapore	Mervyn Chia, Housing Development Board, Singapore		
	State of the Art in Geophysical Investigations for Tunnelling and Underground Space Development Sanjay Rana, PARSAN Overseas Pvt. Limited, India	Application of Distributed Fibre Optic Sensor (DFOS) in Instrumented Pile Load Test Tee Bun Pin, Smart Sensing Technology Sdn Bhd, Malaysia		
	Some Potential Optimisations for the Design of Underground Infrastructure in Residual Soils Wai Mon Thi, Mott MacDonald, Singapore	Lesson Learned from Dynamic Monitoring Case Studies Thai Nguyen, Goble Pile Check, United States of America		
	An evaluation of the Post-tensioned Waler System (PWS) for use as a support system in deep excavations Balamonica Kalyanasundaram,	Comparison of Automated and Manual Load Control Systems in Pile Static Load Testing Kelvin Lee, Glostrext Technology Sdn Bhd,		
	Singapore Institute of Technology, Singapore	Malaysia		
	Performance of Strutless Earth Retaining Stabilising Structure (ERSS) System Adopting Buttress Wall in Deep Unbalanced Excavation	Performance Monitoring of Large Deep Excavation Works with an Efficient Digitization Process		
	Romy Tjuar, DP Engineers Pte Ltd, Singapore	Chennimalai Gounder Chinnaswamy, ARC Software & Services, Singapore		
	Design and Construction of Temporary U-turn Removable Ground Anchors based on SS EN 1997	Analysis and Field Performance of Structures Adjacent to a 27m Deep Excavation		
	Soh Yang Wee, WSP Consultancy Pte Ltd, Singapore	Michael Leong, Formerly Who Hup Pte Ltd, Singapore		
	Mechanically Stabilized Embankment with Geogrid Reinforcement for Gorontalo Outer Ring Road (GORR): An Indonesian Experience	Wireless Network Automation (WiNA) System and Data Visualization Platform for Ground and Structural Instrumentation and Monitoring		
	Teuku Radenal Amir, Solmax Geosynthetics, Indonesia	Lee Sieng Kai, Glostrext Technology Sdn Bhd, Malaysia		
	Case Study of Impact Assessment on DTSS Tunnel due to Groundwater Leakage from Cut and Cover Excavation at Singapore Changi	Design and Performance of Soil Nailed Slopes at Convex Corner		
	Kok De Sheng, Independent, Singapore	Chiong Jeen Ching, A-Terra Consultants Pte Ltd, Singapore		
1730	End of	F Day 1		

Conference Dinner

1900

CONFERENCE PROGRAMME

	1 December 2023				
	Chairperson : Ir Lee	Peir Tien			
0900	Keynote Lecture 4 Overview of Singapore's Rail Construction and Tunnelling Projects Mr Chang Kin Boon				
0945	Keynote Lecture 5 Bored Piles in Tropical Soils and Rocks; A Data Base Approach to Design				
	Dr Toh Cheng Teik				
1030	Tea Break				
	Parallel Sessions : Shallow and Deep Foundations	Parallel Sessions : Soil Characterization and Properties			
	Chairperson : Er Tong Seng Chua and Ir Frankie Cheah	Chairperson : Prof Darren Chian and Ir Hjh Raftah bt Mahfar			
1100	Proper Conduct of Ultimate Pile Load Test and Interpretation Huang Yongqing, Building and Construction Authority, Singapore	Use of seismic cone tests for characterization of reclaimed land Wu Shifan, Nanyang Technological University, Singapore			
	Rationalization of Bored Pile Soil Shaft Friction Empirical Factor, Ks Based on Soil Strength & Plasticity Index Leow Chee Sin, Geohan Sdn Bhd, Malaysia	Correlation Between Values of Undrained Shear Strength, Cu and Standard Penetration Test Blow Count, SPT-N for Cohesive Soils from Granite Formation in Peninsular Malaysia Syahmizzi Ifwat Azharnim, Minconsult Sdn Bhd, Malaysia			
	Field Study on the Performance of Reinforced-Concrete Drilled Displacement Screw Pile in Singapore Ho Jiahui, Singapore Institute of Technology, Singapore	Modification of Erosion Tolerance by Considering Land Biophysical and Landform Factors Beny Hrjadi, BRIN, Badan Riset dan Inovasi Nasional, Indonesia			
	Successful Reuse of Existing Piles for High-Rise Mixed Development Project in Singapore	Evaluation of Compressibility of Soil Using Nuclear Density Cone Penetrometer Test			
	Peter Ling Chuan Chang, P&T Consultants Pte Ltd, Singapore	Karthikeyan Muthusamy, Surbana Jurong Consultants Pte Ltd, Singapore			
	Design and Construction of Substructure Works for Hill Site Development in Mont Kiara, Kuala Lumpur	Machine Learning of Subsurface Geological Models from Limited Site Investigation Data and Prior Geological Knowledge			
	Chee Meng Chow, G&P Geotechnics Sdn Bhd, Malaysia	Chao Shi, Nanyang Technological University, Singapore			
	Performance of Composite Caisson-Pile Foundations on Ganga Sand Beds	Impact of Cyclic Wetting-Drying on Stiffness of Carbide Slag Stabilized Clay			
	Prishati Raychowdhury, IIT Kanpur, India	Sharanya A G, National Institute of Technology Warangal, India			
1230	Lunch				

CONFERENCE PROGRAMME

1 December 2023				
	Chairperson : Prof Eu	n Chul Shin		
1330	Keynote Lecture 6 Case History of an Underground Cross over Stucture in Complex Geological Conditions			
	Dr Ooi Lean Hock			
1415	ISSMGE Vice Presidential Lecture On the Landslide Hazard with the Consideration of Climate Change Prof Keh-Jian Shou			
1500		Break		
	Parallel Sessions : Shallow and Deep Foundations	Parallel Sessions : Ground Improvement and Stabilization		
	Chairperson : Dr Yet Nai Song and Ir Dr Gue Chang Shin	Chairperson : Dr Jia Hui Ho and Ir Wong Chen Jack		
	Impact of Pile Driving in the Vicinity of Constructed Bored Piles in Soft Clay			
	Claire Chan, Arup Singapore Pte Ltd, Singapore	Ming Ze Chai, Singapore Institute of Technology, Singapore		
	Performance of Jack-in Pile, Bored Pile and Shallow Foundation in Granitic Formation	Case Study on Use of Grouted Stone Columns for Old Landfill Site in Singapore		
	Lee Peir Tien, CMKS Consultancy Sdn Bhd, Malaysia	Chew Soon Hoe, National University of Singapore, Singapore		
	Automated Pile Load Testing for High Rise Public Housing Projects In Singapore	Ground improvement using vibro techniques for power plants		
	Aung Swe Lwin, Housing Development Board, Singapore	Zhi Wei He, Keller Foundations (S E Asia) Pte. Ltd., Singapore		
	Investigating Pile Group Behaviour with Varying Soil Stiffness: A Finite Element Analysis	Characterisation of Engineering Properties of DCM based on Case Study of Projects at Eastern Singapore		
	Nicholas Lim, Singapore Institute of Technology, Singapore	Tee Zi Hou, One Smart Engineering, Singapore		
1100	Importance of Properly Built-up Pile Head in Pile Load Tests	Going Green with Ground improvement		
	Zi Xun Eng, Geonamics (M) Sdn Bhd, Malaysia	Selvaganesh Selvaraju, Keller Foundations (S E Asia) Pte Ltd., Singapore		
	Factors affecting skin friction and end bearing in bored piles across Singapore	Efficiency of Discharge Capacity for Various PVDs and PHDs		
	Ricky Nagatie, Housing Development Board, Singapore Anwardeen Ziaudeen Sameera Zeehan, National University of Singapore, Singapore	Eun Chul Shin, Incheon National University, South Korea		
	Influence of Kentledge Reaction System on Pile Load Test	Improving Steel Slag for Treatment Efficacy through CO2 Sequestration for Zinc-Contaminated Soil		
	Oh Yong Ping, Advanced Rapid Geotech Services Pte Ltd, Singapore	Lynette Tay, Nanyang Technological University, Singapore		
	Seeking Sustainability Outcomes in North South Corridor	Improving Steel Slag for Treatment Efficacy through CO2 Sequestration for Lead-Contaminated Soil		
	Godia Ong, Mott MacDonald, Singapore	Xuan Yan Tan, Nanyang Technological University, Singapore		
	A Novel Methodology for Evaluating Airport Pavement Performance using Geotechnical Centrifuge Modeling			
	Zhang Zhiyong, National University of Singapore, Singapore			
1730	End of Day 2			