

CONFERENCE PROGRAM BOOK

Hanoi 2019

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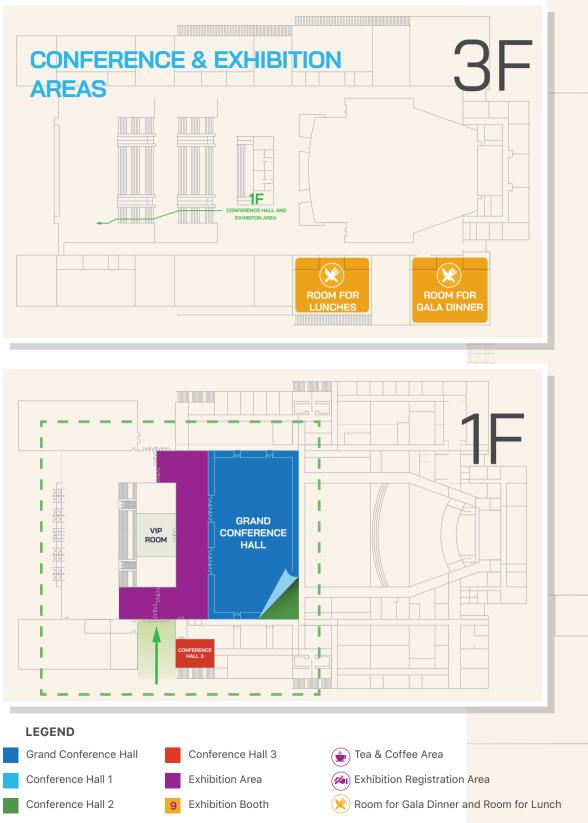
INTRODUCTION

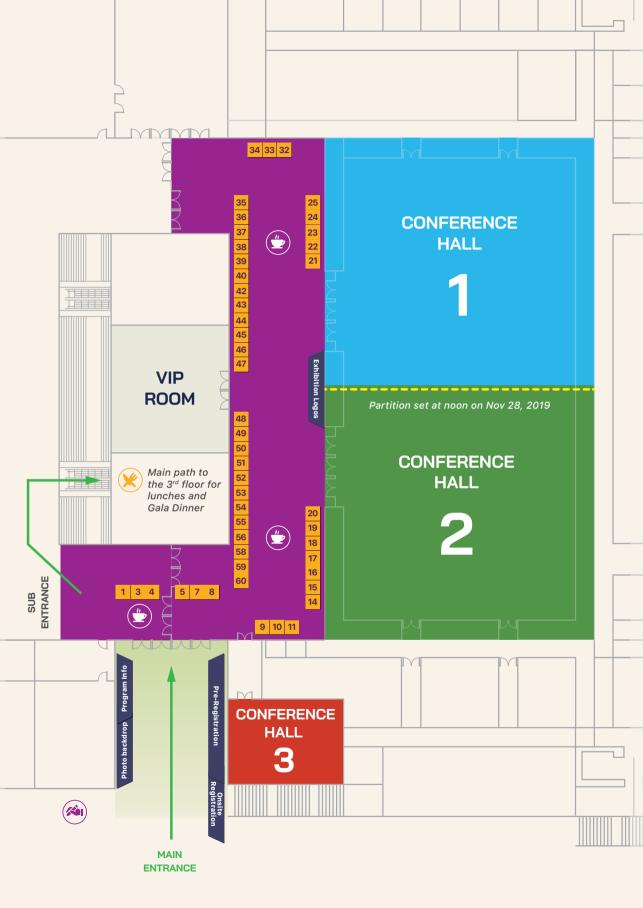
The series of International Conference on Geotechnics for Sustainable Infrastructure Development (GEOTEC HANOI) was organized successfully in 2011, 2013 and 2016 in Hanoi and it has become a well-known event not only in Vietnam but also internationally for its excellent quality and organizational scale. Each conference was a great event for scholars and professional engineers from around the world to share and learn the most up-to-date knowledge and technologies in the field of geotechnical engineering. More remarkably, in the GEOTEC HANOI (GH) conferences, world-class keynote lectures were delivered by leading experts as: Prof. Sven Hansbo (Sweden), Prof. Kenji Ishihara and Dr.Hiroshi Yoshida (Japan), Prof. Harry G. Poulos (Australia), Prof. Pieter A. Vermeer (Netherlands), and Prof. Alain Guilloux (France) in GH2011; Prof. Rolf Katzenbach (Germany), Prof. Alain Guilloux (France), Prof. Sven Hansbo (Sweden) (honorable lecture) in GH2013; and Prof. Bengt H. Fellenius (Canada), Prof. Buddhima Indraratna (Australia), Prof. Chang-Yu Ou (Taiwan), Dr. Jamie Standing (United Kingdom), and Prof. Kazuya Yasuhara (Japan) in GH2016. In addition, each event was a valuable opportunity for sponsors and exhibitors to show and promote their services to the world.

The 4th International conference, GEOTEC HANOI 2019 (*https://geotechn.vn*) is organized by FECON Corporation, the Vietnamese Society for Soil Mechanics and Geotechnical Engineering (VSSMGE), Thuyloi University (TLU), and Kokusai Kogyo Co., Ltd (KKC), and will take place on **November 28-29, 2019** at the National Convention Center (NCC), Hanoi. The conference is honorably patronized by the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and Japan International Cooperation Agency (JICA). Especially, this conference will welcome ten world-leading professors to deliver keynote and invited lectures for six conference key themes.

CONFERENCE THEMES

_	DEEP FOUNDATIONS
2	TUNNELLING AND UNDERGROUND SPACES
-	GROUND IMPROVEMENT
	LANDSLIDE AND EROSION
-	GEOTECHNICAL MODELLING AND MONITORING
	COASTAL FOUNDATION ENGINEERING





GENERAL PROGRAM

Day 1 THURSDAY

NOV 28

GRAND CONFERENCE HALL					
7:30 - 9:00		RECEPTION			
9:00 - 9:30		OPENING CEREMONY			
9:30 - 9:45		Message from the ISSN	/IGE President (Prof. Cha	arles Ng)	
9:45 - 10:15		SPECIAL INVITED LECTURE: Advancing engineering designs through geotechnical centrifuge modelling — Prof. CHARLES NG			
10:15 - 10:45		SVEN HANSBO LECTURE: Deep foundation design - Issues, procedures and inadequacies — Prof. HARRY POULOS			
10:45 - 11:15		Photo session and Tea break			
11:15 - 11:45		KEYNOTE LECTURE: Application of advanced numerical analysis in geotechnical engineering design — Prof. LIDIJA ZDRAVKOVIC			
11:45 - 12:15		KEYNOTE LECTURE : Recent development of quality control and assurance of deep mixing method <u>Prof. MASAKI KITAZUME</u>			
12:15 - 13:30		Lunch Break			
		Conference Hall 1	Conference Hall 2	Conference Hall 3	
13:30 - 15:40		INVITED LECTURE — Prof. N. SHIMIZU	C1: Doon	S2: Tunnelling	
		S5: Geotechnical Modelling and Monitoring	S1: Deep Foundations	and Underground Spaces	
15:40 - 16:00		Poster Session and Tea Break			
16:00 - 18:30		S5: Geotechnical Modelling and Monitoring	S1: Deep Foundations	S2: Tunnelling and Underground Spaces	

NOVEMBER 28 - 29, 2019

Day 2 FRIDAY

NOV 29

	Conference Hall 1	Conference Hall 2	Conference Hall 3
8:00 - 10:00	S5: Geotechnical Modelling and Monitoring	S4: Landslide and Erosion	S3: Ground Improvement
10:00 - 10:30	Poster Session and To	ea Break	
10:30 - 12:10	S2: Tunnelling and Underground Spaces	S4: Landslide and Erosion	S3: Ground Improvement
12:10 - 13:00	Lunch Break		
13:00 - 15:00	S6: Coastal Foundation Engineering	S4: Landslide and Erosion	S3: Ground Improvement
15:00 - 15:30	Poster Session and To	ea Break	
Conference Hall 1			
15:30 - 16:00	 SPECIAL INVITED LECTURE: Application geosynthetics in the construction of sea dike and shore protection — Prof. E. C. SHIN 		
16:00 - 16:30	 INVITED LECTURE: Recent trends in the development of the deep mixing methods in Japan Dr. KENJI MORI 		
16:30 - 17:00	 KEYNOTE LECTURE: Developments in landslide analysis Prof. DELWYN G. FREDLUND 		
17:00 - 17:30	 KEYNOTE LECTURE: Soil-water-tunnel interaction at the front face of a TBM Prof. ADAM BEZUIJEN 		
17:30 - 18:00	- 18:00 KEYNOTE LECTURE: Considerations in the design of piles in soft rock — Prof. MARK RANDOLPH		
18:00 - 18:30	- CLOSING CEREMONY		
19:00 - 21:00	- 21:00 GALA DINNER		

THURSDAY

Day 1 Conference Hall 1

13:30 - 18:30

Session 5: Geotechnical modelling and Monitoring		
Chairman: Noril	kazu Shimizu, Japan	Co-Chairman: Pham Huy Giao, Vietnam
13:30 — 13:50	INVITED LECTURE: New Horizons in Displacement Monitoring Using Satellite Technology in Rock and Geotechnical Engineering. — N. Shimizu	
13:50 — 14:00	Simulation of Cement-T — M.h. Ho, W. Cheang. D.I. P	reated Soils Considering Softening Behavior Phung, A.T. Nguyen
14:00 — 14:10	Centrifuge Model Study Embedded in Soft Rock — V. Kunasegaram, S. M. Sh	
14:10 — 14:20	3D-DEM Analysis of So Focused on Pile Layout — T. Kaneko, A. Kamura, N. I	
14:20 — 14:30	The Behavior of Expans PFC3D Code — S.M. Jeon, S.H. Park, J.W.	ive Particle Packing – DEM Simulation Using Jang
14:30 — 14:40		
14:40 — 14:50		Classification Estimation Using Neural Networks he Fukuoka Plain, Japan. iwa
14:50 — 15:00		me of The Degree of Liquefaction Assessment onitoring Device Installed in Individual Wooden Mori
15:00 — 15:10	Numerical Study on Liq Condition By 3D Discre — M. Jiang, A. Kamura, M. K	
15:10 — 15:20		′olcanic Ash Soil Layers by Cokriging Mashiki Town, Kumamoto ni
15:20 — 15:30	Numerical analysis of p T. Koga, Z. Furukawa, K. Kas	hytoremediation for Cr ⁶⁺ contaminated ground mama, T. Morimoto
15:30 — 15:40	DISCUSSIONS	
15:40 — 16:00	Poster Session and Te	a Break
16:00 – 16:10 8	Multi-Stepwise Strain-R Strain Rate Dependency — Y. Watabe, A. Yoneda, H. F	-

16:10 — 16:20	Assessing The Degree Of Slaking Deterioration Of Rock Materials By Focusing On Grain Refinement — S. Ono, K. Sawano, M. Kazama
16:20 — 16:30	Back-Analysis Of The Vung Tau Full-Scale Trial Using Fea Simulation Of Geogrid Stabilisation And The Geocell Mattress — A. Lees, M. Dobie, M. Bhawanin
16:30 — 16:40	Bearing Capacity Of Footing Resting On Sand For Eccentric Vertical Load — N.q. Pham, O. Satoru, I. Koichi, F. Yutaka
16:40 — 16:50	Additional Settlement Of Footing Due To Loads Acting On Adjacent Foundation — J. Jayamohan, S. Aishwarya, S.R. Soorya, K. Balan
16:50 — 17:00	Investigation of The Structure-Soil-Structure Interaction Between Two Struc-Tures In Centrifuge Test — V.I. Ngo, E.W. Rodney, E. Ike
17:00 — 17:10	Geotechnical Modelling Of Optimization Of Technological Parameters Of The Tailing Dam Alluvium — A. Lolaev, A. Oganesyan, A. Badoev, E. Oganesyan
17:10 — 17:20	Introduction of a Latest-Model Ground Water Flow Meter and Its Application in Ho Chi Minh City — T. Shiga, S. Hagi, B.v. Le, L.h. To
17:20 — 17:30	Development of a Wide Area Satellite-Based Surveillance System Utilizing RTK-GNSS to Monitor Displacement of Slopes and Infrastructure — S. Muroi, K. Iijima, M. Ekawa
17:30 — 17:40	Cloud-Based 3D Data Processing and Modeling for UAV Application in Disaster Response and Construction Fields — T.T. Chu, A. Watanabe, R. Wakutsu
17:40 — 17:50	Development of an Integrated and Automated Displacement Measurement System and Its Application to Monitoring Dams — D. Kato, W. Sato, M. Tanno, N. Shimizu
17:50 — 18:00	Current Status of QZSS and Pilot Experiments In South East Asia — T. Sasakawa, T. Ikeda
18:00 — 18:10	Liquefaction Inside and Outside Bands and Liquefaction Layer Characteris-Tics Related to the 2016 Kumamoto Earthquake R. Sakamoto, S. Murakami, T. Nishi, R. Hirata
18:10 — 18:20	Calculation Of Bearing Capacity Factors of Strip Footing Using The Node-Based Smoothed Finite Element Method (NS-FEM) M.T. Vo
18:20 – 18:30	DISCUSSIONS

THURSDAY

Day 1 Conference Hall 2

13:30 - 17:20

Session 1: Deep Foundations			
Chairman: Bo I	Berggren, Sweden	Co-Chairman : Phung Duc Long, Vietnam	
13:30 — 13:40		f piled raft foundation supporting residential Il pile foundation building a, K. Nakane	
13:40 — 13:50		sponse in a long-term vertically loaded piled on saturated clay - Experimental study K. Dao	
13:50 — 14:00		tical load on performance of horizontally- s through three-dimensional finite element . H. Vu	
14:00 — 14:10	Vertical loading test of Uganda — K. Takano, S.C. Lin	f foundation pile of Source of the Nile Bridge in	
14:10 — 14:20	Influence of horizontal characteristics of piles — A. Mohri, Y. Kikuchi, S. N		
14:20 — 14:30	pile driving on the pen	behaviour caused by surging and vibratory etration resistance and bearing capacity na, T. Matsumoto, S. Kobayashi	
14:30 — 14:40		f deformation behavior of cantilever type ge diameter steel tubular piles into stiff ground a, V. Kunasegaram	
14:40 — 14:50		or of pile supported footings on sand E. Oh, A.S. Balasubramaniam	
14:50 — 15:00	Effects of plugging on to — H. Yamazaki, Y. Kikuchi,	e bearing capacity of open-ended piles S. Noda	
15:00 — 15:10	A new end bearing cap steel piles considering — s. song	pacity equation on large diameter open-ended plugging effect	
15:10 — 15:20	A method for the evalu foundation — D. Nguyen, D. Phan	uation of ultimate lateral load capacity of pile	

15:20 — 15:30	Numerical analysis of mechanical factors influencing the bearing capacity of piled raft foun-dation on saturated overconsolidated clay — К. Капеda
15:30 — 15:40	DISCUSSIONS
15:40 — 16:00	Poster Session and Tea Break
16:00 — 16:10	The impact of groundwater lowering on pile bearing capacity in Hanoi – Vietnam — G.T. Luu, D.L. Tran, T.K.T. Dinh, T.H. Nguyen
16:10 — 16:20	Pile design with consideration of down drag — V.H. Cao
16:20 — 16:30	A study on behavior of a rotary press-in pile with wings horizontally loaded — N. Kuze, N. Suemasa, M. Futaki
16:30 — 16:40	Field trials of large-diameter multi-belled piling method — K. Hama, Y. Horii, Y. Nakanishi, T. Watanabe
16:40 — 16:50	Evaluation of Bearing Capacity of Steel Rotation Pile — T. Kuzu, H. Oki, I. Yoshiro, T.T.T. Nguyen
16:50 — 17:00	GANPILE method - reasonable pile driving method to embed steel piles into the bedrock — M. Kawai, K. Inazumi, H. Tagauchi
17:00 — 17:10	Establishing a constitutive finite element based-model to simulate the dynamic pile test — A. Elgamal
17:10 — 17:20	DISCUSSIONS

DETAILED PROGRAM

Day 1

THURSDAY

Conference Hall 3

13:30 - 18:30

Session 2: Tunnelling and Underground spaces		
Chairman: Adam	n Bezuijen, Belgium	Co-Chairman: Le Quang Hanh, Vietnam
13:30 — 13:40	Design and constructior Metro Line 1 in Vietnam — M. Kuriki	n of first bored tunnel under Ho Chi Minh City
13:40 — 13:50		chine) tunneling in urban areas by EPB (Earth gn consideration of Hanoi pilot light metro line n, C.M. Nguyen
13:50 — 14:00	Pressure infiltration cha — T. Xu, A. Bezuijen, W.H. Zh	racteristics of foam for EPB shield tunneling ou
14:00 — 14:10	Tunnel boring machines — W. Brundan, H. Danno	for extremely tight radius curves
14:10 — 14:20	On the application of slu — H.P. Luu, H.G. Pham, H. No	urry micro-tunneling method in Vietnam vriyuki, P. Noppadol
14:20 — 14:30	Key points of Japanese railways in Vietnam — T.T.T. Nguyen, K. Iwata	technology to fabricate RC segments for urban
14:30 — 14:40	An introduction on the in tunnel in Korea — C.W. Lim, D. Plantier	ncreasing usage of precast concrete arch
14:40 — 14:50	Holistic approach for the Express metro network — F. Michelin, A. Nahli, V. Lar	e construction monitoring of the Grand Paris
14:50 — 15:00	Application of Norwegian N landslides in mountainous — R. Bhasin, A. Aarset	Nethod of Tunnelling (NMT) principles to bypass terrain
15:00 — 15:10	Geotechnical characteri UMRT line No.3 in Hano — H.G. Pham, T.H.A. Nguyen	-
15:10 — 15:20		ects of wall slenderness on failure behavior of fied small-scale physical model test t
15:20 — 15:30	Deep excavation of an u a case history in the Kla — C.W. Boon, L.H. Ooi, J.G. Ta	
15:30 — 15:40	Underground tunnelling — J.J.H Chin	in the Klang Valley Mass Rapid Transit Project
15:40 — 16:00	Poster Session and Tea	a Break
16:00 — 16:10	An empirical analysis on by TBM tunnelling in Ho — B.T. Le, M. Kuriki, Q. Phan,	

16:10 — 16:20	Installation of steel pipe piles and steel pipe sheet pile for bridge foundation using vibratory inner-excavation method (NB SYSTEM) — T. Komazawa, O. Harada, K. Inazumi
16:20 — 16:30	Analyzing the settlement of adjacent buildings with shallow foundation based on the horizontal displacement of retaining wall — Q.T. Huynh, V.Q. Lai, V.T. Tran, M.T. Nguyen
16:30 — 16:40	Interaction of excavation and adjacent building with different foundation types using 3D decoupled analysis method — H.D. Lin, H.C. Liao, S.L. Chen, C.C. Chen
16:40 — 16:50	Research on deformation of surrounding rock and mechanical characteristics of lining of dolomitic limestone tunnel based on field measurement and numerical analysis — W. Ding, R. Zhu, X.C. Tran
16:50 — 17:00	Close proximity tunnelling and measures adopted in MRTA Orange Line – East project — H.L. Maung, K.C. Chao, O. Duangsano , P. Noppadol
17:00 — 17:10	Design and construction of an intricate and anomalistic underground tunneling section — S. Yasrobi, S. Majidian, A. Golshani
17:10 — 17:20	Reliability-based design of deep tunnel excavated in the viscoelastic Burgers rocks — N.T. Tran, D.P. Do, D. Hoxha, M.N. Vu
17:20 — 17:30	Design and construction of Cisumdawu tunnel, West Java, using umbrella grouting protection — P.P. Rahardjo, Y. Halim, A. Arafianto
17:30 — 17:40	Hypothesis for the calculation of the rock pressure reaction within the secondary stress field of horizontally excavated mining, for different types of quarrying — T. Byambasuren, M. Khukhuudei
17:40 — 17:50	Environmental impact assessment of an in-service road tunnel during the enlargement project in Vietnam — T.H. Tran
17:50 — 18:00	Determining the LCPC abrasivity of sand and gravel in project of Hanoi pilot light metro line, section Nhon – Hanoi railway station — T.N. Nguyen, T.T. Ngo, D.Q. Hoang
18:00 — 18:10	Centrifuge modelling of geosynthetic-reinforced soil walls at failure — T.S. Nguyen, K.H. Yang, W.Y. Hung, T.N.P. Pham
18:10 — 18:20	Double diaphragm wall – Design and construction experience — N.V. Luu, Q.D. Pham
18:20 — 18:30	Numerical simulation for centrifuge model tests on the stability of self-standing steel pipe pile retaining wall by Rigid Plastic FEM — K. Mochizuki, K. Isobe, J. Takemura, Y. Ishihama

DETAILED PROGRAM

FRIDAY

Day 2 Conference Hall 1

8:00 - 12:10

Session 5: Geotechnical modelling and Monitoring		
Chairman: Norik	kazu Shimizu, Japan	Co-Chairman : Pham Huy Giao, Vietnam
8:00 — 8:10		ing using GPS at an unstable steep slope and new low-cost GPS sensor ma, N. Shimizu
8:10 — 8:20	Application of internet monitoring in Taipei cit — M.C. Tseng, P.C. Chi, C.C	
8:20 — 8:30	infrastructures	natics for geohazard assessment in Philippine cal, M. Baniquett, C.J. Manzano
8:30 — 8:40	Unstable slope monito sensor and pipe strain — M.R Sheikh, Y. Nakata, M	
8:40 — 8:50	Early warning systems review — T.T.H Ngo, B.T. Vu, T.K. N	for flash floods and debris flows in Vietnam: A Iguyen
8:50 — 9:00	Experimental analysis material — T.H. Nguyen, Y. Lee, J. A	of resilient modulus of open-graded aggregate
9:00 — 9:10	Pull-out experiment of anchors installed in dr — S. Yoshida, K. Komura, T	
9:10 — 9:20	The micromechanical to reverse fault offsets — W.C. Huang, H.K. Le, K.Y	-
9:20 — 9:30		an earthen historical rampart of Meknes city sonic non-destructive testing ekayir, E.M. Benyassine
9:30 — 9:40	Characteristic behavio — S.H. Park, S.M. Jeon, J.	or of hydration of magnesium oxide Jang
9:40 — 9:50	Development of locally data based on machin — S. Cho, B. Cho, S. Kang,	

9:50 — 10:00	DISCUSSIONS		
10:00 — 10:30	Poster Session and Te	ea Break	
Se	Session 2: Tunnelling and Underground Spaces		
Chairman: A	dam Bezuijen	Co-Chairman : Le Quang Hanh, Vietnam	
10:30 — 10:40	Study of excavation fai — S.D. Alvi, P.C. Tamsir, P.P	lure on expansive soils in Surabaya . Rahardjo	
10:40 — 10:50	Behavior of braced exc ground improvement ir — T. Kono, A. Kurihara, T. O		
10:50 — 11:00		on of construction-induced vibrations on Metro Line 3 project in Hanoi: Application to In procedures	
11:00 — 11:10	Study for structural pe wall — T. Tominaga, H. Nakano,	rformance of hat-type sheet pile for retaining K. Teshima	
11:10 — 11:20	Quantitative evaluation under liquefaction — K. Fujiwara, K. Nakai, N. (n of PFS (Partial Floating Sheet-pile) Method Ogawa	
11:20 — 11:30	A study of deep excava river delta area — B.V. Nguyen, C.T. Vu, T.S.	ation using cement deep mixing in Mekong . Nguyen, H.V. Nguyen	
11:30 - 11h40	Effect of deep excavati adjacent structures — H.N. Nguyen, V.D. Nhu	ion on deformation of diaphragm wall and	
11:40 - 11h50	Stiffness of soil in exca Vietnam — V.D. Nguyen, T.N. Do, Q.T	avation-induced deformation analysis in	
11:50 - 12h00	Application of CDM wa Ho Chi Minh City area — T.T. Le, T.K.C. Dao	lls in the construction of basements in	
12:00 - 12h10	Dewatering experience Vietnam — D.C. Le, V.T. Nguyen, Q.M	es in deep excavation – Case studies in I. Truong	
12:10 — 13:00	LUNCH BREAK		

DETAILED PROGRAM

FRIDAY

Day 2 Conference Hall 2

8:00 - 12:00

Session 4: Landslide and Erosion			
Chairman: Delwyr	redlund, Canada	Co-Chairman : Trinh Minh Thu, Vietnam	
8:00 — 8:10	Toward standardizing stability analysis — R. Kalatehjari	the search for critical slip surface in slope	
8:10 — 8:20	Slope stability analyse for valuable urban are — P. Osiński, B. Dobrzelew	-	
8:20 — 8:30		ne slip surface analysis using elevation data after slope disaster to investigate landslide l urakami, T. Nishi	
8:30 — 8:40	Estimation of change time, based on unsatu — K. Kawai, Y. Kijima, K. N		
8:40 — 8:50	embankments	mic considerations in the design of highway , J. Vivian, B.R. Buensuceso Jr.	
8:50 — 9:00	dam	smic design considerations for mine tailings illo, J.M.I. Tanap, M.A.H. Zarco	
9:00 — 9:10		stigation for river levees reinforced by steel ue to the 2016 Kumamoto earthquake Tsukamoto, J. Tanaka	
9:10 — 9:20	Multiple solutions to s — V.C. Pham, C.L. Nguyen	stabilize a deep-seated landslide , T.N. Do, V.T. Pham	
9:20 — 9:30	Retaining system agai study — H.D. Ngo, T.N Do, C.L. N	nst rockfall near a highway in Vietnam-a case Iguyen	

9:30 — 9:40	How to reduce landslides by preventive actions — T.U. Nilsson
9:40 — 9:50	DISCUSSIONS
9:50 — 10:30	Poster Session and Tea Break
10:30 — 10:40	Liquefaction behavior of dense sand relating to the degree of saturation K.H. Tran, S. Imanzadeh, S. Taibi, D.L. Dao
10:40 — 10:50	Effect of rainfall pattern on slope stability — A.N.C. Ghani, A.M. Taib, D.Z.A. Hasbollah
10:50 — 11:00	Cyclone-triggered debris flow hazard on Takaka Hill, Tasman District, South Island, New Zealand — C. Prasad, C.H. Fenton
11:00 — 11:10	A case study on surveys and design for maintaining important traffic infrastructure against landslides in Sri Lanka (Landslide Disaster Protection Project), and experience for Vietnam — N.D. Nguyen, K. Yoshinori, K. Yoshio
11:10 — 11:20	Features of large-scale landslide at Hau Thao area, Sa Pa town, Lao Cai province — D.M. Nguyen, Q.H. Tran
11:20 — 11:30	Ground damage during large earthquakes: liquefaction and slope collapse — Y. Shioi, Y. Hashizume
11:30 — 11:40	A case history of piling work utilizing the Press-in method on a steep slope — Y. Kitano, M. Yamaguchi
11:40 — 11:50	Susceptibility assessment of slope failures in Singapore using GIS-based prediction models — Y. Kim, H. Rahardjo, A. Satyanaga
11:50 — 12:00	DISCUSSION
12.00 - 12.20	LUNCH BREAK

FRIDAY

Day 2 Conference Hall 3

8:00 - 12:00

Session 3: Ground improvement			
Chairman: Masak	ki Kitazume, Japan	Co-Chairman: Nguyen Tien Dung, Vietnam	
8:00 — 8:10	Large soil-cement column applications in Vietnam — M.N. Vu, Q.H. Le		
8:10 — 8:20	Performance of dry deep soil mixed columns supporting a box culvert – lessons learnt — C. Kim, B. Poon, A. Peiris		
8:20 — 8:30	Point foundation (PF) method for foundations and embankments — A.N. Nguyen, T.D. Nguyen, C.S. Yim, M.S. Lee		
8:30 — 8:40	Analytical and numerical analyses on stiffness enhancement of ground improved by head-enlarged CDM columns — T.D. Nguyen, D.P. Hoang, Q.G. Tran, S.G. Chung		
8:40 — 8:50		sive strength properties of cement treated soil ading during curing period a, M. Kitazume	
8:50 — 9:00	Backfilling using fluidized soil-cement mixture made with excavated soil containing old fly ash — H. Matsui, H. Ishii, T. Ogawa, T. Ooishi		
9:00 — 9:10		olidation settlement of ground improved by and Prefabricated vertical drain applied to Ruda, S. Muhammad	
9:10 — 9:20	The new compaction control — K. Takenouchi, S. Sassa	grouting method with improved upheaval	
9:20 — 9:30	Study on repair and re jet grouting — T. Kamata, N. Kuze, A. S	einforcement for existing pile foundation using Shimamura, T. Tsuchiya	

9:30 — 9:40	1G laboratory-scale shaking table tests on reduction of liquefaction damage in sand using short gravel compaction piles — D.D. Nguyen, K. Kobayashi, S. Murakami, K. Yasuhara
9:40 — 9:50	DISCUSSIONS
9:50 — 10:30	Poster Session and Tea Break
10:30 — 10:40	Effect of SCP improvement geometry on mitigation of liquefaction- induced embankment settlement — Y. Li, M. Kitazume, A. Takahashi, K. Harada
10:40 — 9:50	Stabilization for Soft Soil Foundation by Geotextiles — I. Lin, C. Chu, J. Cheng
10:50 — 11:00	The effects of soaking process on the bearing capacity of soft clay reinforced by nonwoven geotextile M.D. Nguyen, T.T. Nguyen, H.T. Le
11:00 — 10:10	Application of vertical drains to increase the capacity of disposal pond for dredged marine clay — T. Negi, H. Mori, M. Katagiri
11:10 — 11:20	Long-term settlement analysis of the PVD-improved soft clay deposit underlying the Dinh Vu industrial zone — D.C. Nguyen, H.G. Pham
11:20 — 11:30	The approach of assessing time of preload and surcharge removal during the construction of embankments over soft soils — B. Poon, K. Chan, A. Peiris
11:30 — 11:40	Experimental evaluation of the effects of gravel particles on the dry density of compacted soil — S. Ihara, S. Noda, Y. Kikuchi, F. Tatsuoka
11:40 — 10:50	Strength and cement hydration properties of cement-treated soil — К. Ueno, К. Kasama, Z. Furukawa
11:50 — 12:00	DISCUSSIONS
12:00 — 12:30	LUNCH BREAK

Day 2

FRIDAY

Conference Hall 1

13:00 - 15:00

Session 6: Coastal Foundation Engineering			
Chairman: Mark	Randolph, Australia	Co-Chairman: Nguyen Anh Dung, Vietnam	
13:00 — 13:10	On the application and benefits of an integrated geophysical and geotechnical digital ground model to optimize a site investigation survey for an offshore wind farm project — D. Rushton, M. Nguyen		
13:10 — 13:20	Geotechnical modelling to appraise the Tavira (Portugal) new fishing harbor's soft soils compressibility — J. Lemos, A. S. Ferreira, P.F. da Silva		
13:20 — 13:30	Sand densification using combination of vibroflotation and stone column for coastal reclamation in Lampung, Indonesia — A. Sugianto, P.C. Tamsir, P.P. Rahardjo		
13:30 — 13:40	Study on the performance of coastal reclamation and qc/N correlation of calcareous sands in Makassar — P.C. Tamsir, A. Arafianto, P.P. Rahardjo		
13:40 — 13:50	Site characterization for container terminal project at north coast of Jakarta city by in-situ testing — A. Arafianto, P.P. Rahardjo		
13:50 — 14:00	Pressuremeter test in municipal solid waste for coastal reclamation Project — P.C.S. Santoso, A. Sugianto, P.P. Rahardjo		
14:00 — 14:10	Evaluation of the degree of consolidation of coastal reclaimed lands based on settlement data and CPTu — K. Rongsadi, S.D. Santoso, A. Arafianto, P.P. Rahardjo		
14:10 — 14:20	Basin evaluation of CO, Malaysia — D.Z.A. Hasbollah, R. Junio	2 geological storage potential in Malay Basin, n, A.M. Taib, A.N. Mazlan	
14:20 — 14:30	Effects of earthquake c clay — H. Matsuda, T.N. Tran, H.	on the secondary consolidation of saturated Sato, T.S.H. Hoang	
14:30 — 14:40	Rehabilitation of the coastal road retaining wall using the Press-in technology — M. Yamaguchi, Y. Kimura, T. Morisawa		
14:40 — 14:50	The negative impacts of artificial islands on the beach erosion in the Eastern of Phu Quoc Island — H.S. Nguyen, T.T Huynh, V.N. Dau		
14:50 — 15:00	DISCUSSIONS		
15:00 – 15:30	Poster Session and Te	a Break	

Day 2
FRIDAYConference Hall 2
13:00 - 14:50

Session 4: Landslide and Erosion			
Chairman: Delwyr	n Fredlund, Canada	Co-Chairman: Trinh Minh Thu, Vietnam	
13:00 — 13:10	Geotechnical analysis of province, Southern Tha T. Indhanu, T.C. Uppakarn , T		
13:10 — 13:20	Sinking of hill road and Asia and experience fo — Y. Kawamura, T. Mayumi	gravitational deformation, a study in South r Vietnam	
13:20 — 13:30		ity and nutrient availability on microbially erosion susceptibility of sand	
13:30 — 13:40	Coastal erosion, river b Delta: Causes, effects — V.T. Nguyen	ank erosion and landslides in the Mekong and solutions	
13:40 — 13:50	The effect of isotropic soils — Q.H. Dang, G. Stefania, P.	preloading on static liquefaction of sandy . Reiffsteck, L. Lenti	
13:50 — 14:00	Shear strength of an ur deformation — T. Nishimura	nsaturated silty soil subjected to creep	
14:00 — 14:10	Rate effect on the resid soil layers — T.D. Nguyen, M. Suzuki	dual interface strength between two different	
14:10 — 14:20		del for shallow groundwater level rising in n finite element analysis Wakai, F. Cai	
14:20 — 14:30	Effects of internal eros — K. Nakashima, J.A. Black		
14:30 — 14:40	Bioelectric potential of — N. Tashiro, Z. Furukawa,	plant undertaking shear strength on shear test K. Kasama	
14:40 — 14:50	DISCUSSIONS		
14:50 – 15:30	Poster Session and Te	ea Break	

Day 2 FRIDAY

Conference Hall 3

13:00 - 15:00

Session 3: Ground Improvement			
Chairman : Masak	i Kitazume, Japan	Co-Chairman: Nguyen Tien Dung, Vietnam	
13:00 — 13:10	Basal reinforcement fo — M.T. Hortmann, M. Hölze	or embankments on soft tropical soil el, S. Uelzmann, O. Detert	
13:10 — 13:20	Diatomaceous soils: a less than cromulent engineering material — T.M. Evans, D. Moug		
13:20 — 13:30	Rice husk ash burnt in simple conditions for soil stabilization — V.P. Pham, T.V. Tran		
13:30 — 13:40	Consolidation of soft soil layer: numerical investigation and perspective for the utilization of hard coal ash discharged from thermal power plants for the ground improvement action — V.H. Le, C.M. Le, F. Rackwitz		
13:40 — 13:50	Utilization of construction and demolition waste (CDW) for unbound road subbase in Hanoi, Vietnam — V.C. Tran, V.T. Nguyen, H.G. Nguyen, K. Ken		
13:50 — 14:00	A study of swelling characteristics of expansive soils on high speed railway project area in India — S. Hagi, T. Yabe, T. Shiga		
14:00 — 14:10	Various factors on stre stabilized soil prepare — Q.V. Pham, Y. Kohata	ength and deformation property of liquefied d at field	
14:10 — 14:20		types and mixing ratio to the compression Imaking slag mixed with wood chips , S. Noda	
14:20 — 14:30	Evaluation of survival semi-arid region by st — Z. Furukawa, N. Yasufuk	-	
14:30 — 15:00	DISCUSSIONS		
15:00 — 15:30	Poster Session and T	ea Break	

LIST OF POSTER PRESENTATIONS

P-01	Investigation of effectiveness of preloading method for existing foundation underpinning by centrifuge tests — C.C. Wang, J.T. Han, Y.E. Jang
P-02	Linear analysis of a circular pile under vertical load in layered soils — V.V. Nguyen
P-03	Pile foundation supporting a waste water treatment reservoir in Binh Chanh soft clay — C.O. Nguyen, T.V.T. Dao, D.T. Bui
P-04	Experimental studies on model pile foundations reinforced by hard inclusions — M.L. Nuzhdin, L.V. Nuzhdin, A.B. Ponomaryov
P-05	Shaking table modeling of battered pile's behavior under seismic loading — A.S. Azizkandi, S. Vahidinia, M. Eslami
P-06	Tunneling induced ground settlements in the first metro line of Ho Chi Minh City, Vietnam — T.H. Nguyen, H.G. Pham, P. Noppadol
P-07	Study of the stress-strain state in the sub-rectangular tunnel — T.T. Nguyen, M.A. Karasev, M.A. Vilner
P-08	A study for the estimation of TBM design parameters by statistical analysis — B. Park, S.H. Chang, S.W. Choi. C. Lee
P-09	Advanced soil parameters determination for Ho Chi Minh city soft clay to predict ground movements in deep excavations and tunneling — K.H. Nguyen, P. Noppadol
P-10	Prediction of rate of penetration with data from adjacent well using artificial neural network — M. Diaz, K.W. Kim, J. Lee, H.S. Shin
P-11	Geotechnical properties of Hai Phong and Ninh Binh clays in the Red River delta — T.P. Tran, H.G. Pham
P-12	Numerical study of effectiveness of horizontal grouting in liquefaction mitigation for existing building foundation — W.K. Yoo, J.H. Lee, B.S. Yoo, S.R. Kim
P-13	A case study of effectiveness of large diameter jet grout for soil improvement works in soft marine clay — R.K.N. Wong, Y.F. Weng, G.K. Leong, S.H. Cheng
P-14	Assessment riverbank stability of the Red riverbank: case study in the riverbank from Km 20 to km 27, Ba Vi, Hanoi — T.T. Duong
P-15	Coastal erosion in An Minh - An Bien, Kien Giang province, causes and countermeasures — H.N. To, M.T. Do
P-16	Geotechnical information construction methods for liquefaction assessment — S.W. Song, B.J. Kang, H.S. Kim, W.J. Cho
P-17	A new rainfall threshold model for predicting ground movement occurrences based on geotechnical monitoring data the at the Hai Van pass —H.C. Nguyen, H.G. Pham
P-18	Survey on the applicability of Japanese monitoring systems for safety management during infrastructure construction in Vietnam — M. Sumitani, A. Suzuki, T. Iwasaki, N. Shimizu
P-19	Monitoring of the liquefaction of Nazaré's north breakwater foundations — T. Nunes, A. S. Ferreira, P. Lamas, M. Cabral
P-20	Research on forecasting the effect of sea level rise on the riverbed eccretion and erosion process in Sai Gon – Dong Nai River system, HCMC area — V.N. Dau, K.P. Nguyen, C.T. Ho, T.N.T. Nguyen

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10	GEOTOMOGRAPHIE	43	INSEE	
11	BENTLEY SYSTEMS	44	CEMENTYS	
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