



1st MGS - GEOSS GEOTECHNICAL CONFERENCE 2019

(A geotechnical collaboration between Malaysia & Singapore)

“Geotechnics in Urban Infrastructure”

24 - 26 June 2019

**Hilton Petaling Jaya, Selangor,
MALAYSIA**

**Kindly note on
change of venue!**



Bulletin No. 3

Jointly Organized by: -

Malaysian Geotechnical Society (MGS)

Geotechnical Society of Singapore (GeoSS)



Member Societies of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

INTRODUCTION

The 1st Malaysian Geotechnical Society - Geotechnical Society of Singapore Geotechnical Conference (1MGSSC) will be held on 24 - 26 June 2019 at Hilton Petaling Jaya, Selangor, Malaysia. On 3 November 2017, MGS and GeoSS have signed a Memorandum of Understanding, where both parties agreed to jointly organise a Geotechnical Conference every 2 years, hosted alternately. This inaugural 1MGSSC to be held in Selangor, Malaysia is expected to be well supported by academicians and practitioners. The Conference will have an Opening Address and Keynote Lectures to be delivered by distinguished geotechnical experts and eminent academicians. More than 50 contributed papers from Malaysia, Singapore, as well as overseas countries will be presented at the Conference.

Infrastructure spend in both countries has been significant over the past few years with implementation of mega projects like Light Rail Transit, Mass Rapid Transit, Deep Tunnel Sewerage Systems, etc. Sustainable urban development has been the hallmark of many such projects and the need to improve productivity by reducing reliance on labour, the intent of both Malaysia and Singapore authorities. Much geotechnical knowledge in design and construction has been gained, including state of the art quality, safety and technological smarts applied on sites. Not surprisingly, construction techniques applied in one of the toughest geology in Kuala Lumpur Limestone, and the safe-efficient transportation system in Singapore are considered world class.

This conference affords the perfect opportunity for the exchange of know-how and lessons learnt between Malaysian and Singaporean practitioners, academicians and authorities, and is certainly not to be missed.

CONFERENCE THEME

The Conference theme is **Geotechnics in Urban Infrastructure**.

Sub themes include:

- Soil Characterization and Properties
- Ground Improvement and Stabilization
- Shallow and Deep Foundations
- Excavations and Retaining Structures
- Field Testing and Performance Monitoring
- Engineering Geology and Rock Mechanics
- Design Analysis and Modelling
- Tunnelling and Underground Space Development

TENTATIVE PROGRAMME

	Time	Description
24 June 2019, Monday	0800 - 0845	Registration
	0845 - 0900	Opening Ceremony
	0900 - 0945	ISSMGE Presidential Opening Address by Prof. Charles Ng
	0945 - 1030	Keynote 1 by Prof. Phoon Kok Kwang
	1030 - 1100	Morning Coffee / Tea Break
	1100 - 1230	Author Presentations (Session 1)
	1230 - 1330	Lunch
	1330 - 1415	Keynote 2 by Ir. Dr. Chan Sin Fatt
	1415 - 1500	Keynote 3 by Prof. Leung Chun Fai
	1500 - 1530	Afternoon Coffee / Tea Break
	1530 - 1730	Author Presentations (Session 2)
25 June 2019, Tuesday	0845 - 0930	Keynote 4 by Ir. Dr. Ooi Lean Hock
	0930 - 1000	Malaysia Young Engineer Presentation by Assoc. Prof. Ir. Dr. Hisham Mohamad
	1000 - 1030	Singapore Young Engineer Presentation by Er. Dr. Ooi Poh Hai
	1030 - 1100	Morning Coffee / Tea Break
	1100 - 1230	Author Presentations (Session 3)
	1230 - 1330	Lunch
	1330 - 1415	Keynote 5 by Ir. Dr. Toh Cheng Teik
	1415 - 1500	Keynote 6 by Er. Chua Tong Seng
	1500 - 1530	Afternoon Coffee / Tea Break
	1530 - 1730	Author Presentations (Session 4)
26 June 2019, Wednesday	0900 - 1230	Site Visit

ORGANIZING COMMITTEE

Chairman:	Ir. Yee Yew Weng
Co-Chairman:	Prof. Leung Chun Fai
Deputy Chairman:	Ir. Liew Shaw Shong
Secretary General:	Adeline Moo Hong Shin Chriswini Tanaka
Treasurer:	Ir. Dr. Chan Swee Huat Dr. Leong Kam Weng
Technical Paper:	Ir. Dr. Dominic Ong Ek Leong Dr. Ng Tiong Guan
Hotel & Exhibition:	Vincent Ong Yung Sheng Ir. Dr. Ong Chee Wee
Advertisement & Sponsorship:	Ir. Dr. Ong Chee Wee
Site Visit:	Ir. Dr. Chin Yaw Ming

ABSTRACTS RECEIVED

No.	Author(s) - Paper Title
1	C.C. Ng, W.K. Lai, C.W. Ong, C.K. Lee, P. Kiong, M.H. Ang - Challenges of Pile Foundation in Limestone Foundation in Kuala Lumpur, Malaysia
2	C.W. Ong, C.C. Ng, C.K. Lee, M.H. Ang, S.W. Cheah, W.C. Loh - Overcoming Challenges of Developments Interfacing with Railway Structures in the Klang Valley
3	C.C. Ng, C.W. Ong, C.K. Lee, M.H. Ang - Design Case Study of MRT Station with Mined Tunnels in Mumbai Metro Line 3
4	C.C. Ng, C.W. Ong, P.Y. Ng, L.G. Lee, C.W. Neo - Valuable Lessons Learnt from Case Histories of Singapore
5	W.G. Zhang, R.H. Zhang, A.T.C. Goh - Numerical Study of Groundwater Drawdown Effects on Ground Settlement for Braced Excavations in Singapore Bukit Timah Granitic Residual Soils
6	P.L. Teo, T.Z.D. Moe, P. Teo, O. Yoshikatsu, K.S. Wong - Interpretation of CU and CD Triaxial Tests on Singapore Old Alluvium Soils
7	Nicholas K.K. Fong, D.M. Yong - Use of Spray Concrete Lining Mined Tunnelling Method for Cross Passages Construction at Thomson East Coast Line T217, Singapore
8	Nicholas Fong K.K., D.M. Yong - Urban Tunnelling in Bukit Timah Granite by Slurry Mixshield at Thomson East Coast Line T217, Singapore
9	D. Zhou, C.Y. Yang, W.G. Zhang - Transparent Soil Model Testing on Arching Effect of Passive Piles Subjected to Lateral Soil Movement
10	H. Tada, K. Hashida, S. Takeda, T.S. Chua, Michelle Lew, S. Marican, R.S. Nair - SCL Tunnel Construction Underneath Existing MRT Tunnels with Jet Grouting Pile and Artificial Ground Freezing
11	C.M. Chow, W.S. Teh - Highrise Development in Limestone Formation Interfacing with MRT Tunnels
12	S.H. Hong, S.S. Chong, R.C. Barallas - A Finite Element Study of an Excavation Not Amendable to Geometric Simplification
13	J.J. Tan, Y.M. Chin - Desk Study of Deep Fill for a Building Platform
14	K.M. Azizi, Y.M. Chin - Geotechnical Engineering of Ex-Quarry Site Redevelopment
15	M.M. Yohannes, S.R. Penmetza, M. Tukimin - An Effective Approach to Seal Highly Weathered Limestone using Bentonite Cement Grout
16	M.M. Yohannes, J. Daramalinggam - Specifying Strength Properties of Soil Mixing and Jet Grouting in Malaysia: A Statistical Approach
17	M.M. Yohannes - Machine Learning in Geotechnical Engineering: A Bayesian Approach to Rock Fissure Grouting
18	Z.X. Eng, H.H. Tan, L.S. Chuah - Case References of Cross-hole Sonic Logging Test with Minor and Major Anomalies
19	K.H. Law - Performance and 3D Numerical Analysis of 11m Deep Strut-Free Wide Excavation in Kenny Hill Formation
20	S.A. Kulkarni, D.M. Yong, M. Xin, M. Aung - Mitigation of Blast Induced Vibrations at Deep Excavations on Surrounding Structures
21	S.S. Liew, Jason A.H. Lim, Y.L. Chin - Review of Interpretation Method of Global Strain Measurement in Pile Testing
22	S.S. Liew, Jason A.H. Lim, Y.L. Chin - Effectiveness of Pile Debonding Materials with Pile Global Strain Measurement

ABSTRACTS RECEIVED

No.	Author(s) - Paper Title
23	P.T. Lee, S.S. Gue, K.L. Kwang, K.I. Kasim - Hand-Dug Caisson Piles in Granitic Formation, Penang
24	Y. Yokota, K. Date, H. Tobe, D. Fukushima, S. Kurokawa - Real-time Evaluation of Tunnel Face Condition using Laser Distance Measurer
25	C.S. Chen, P.K. Yeow, S.C. Lee, Z.H. The - Measurement of Shaft Friction of Bored Pile in Granite Formation
26	S.K. Lee, Y.W. Chong, H.G. Li - A Novel Approach to the Performance Evaluation of a 2500mm \emptyset Working Test Bored Pile Using Bi-Directional Static Load Test (BDSLTL) Method
27	H.W. Xiao, T.G. Ng, E. Lim, T. Sindhu, B.K. Hong - Impact Assessment on Existing Building Due to Deep Excavation
28	Y.P. Dong, A.J. Whittle, K.H. Goh - Analysis of the Consolidation-Induced Ground Settlement in Reclaimed Land
29	C. Im, J.K. Tay, P. Braun - Geotechnical Design and Construction Aspects for an Underground Cut-and-Cover Tunnel above an Existing Road Tunnel Box
30	M. Karthikeyan - Interpretation of Nuclear-Density Cone Penetrometer for Layered Soils
31	B.P. Tee, S.C. Lee, M.F. Chong, H. Mohamad, K.A. Ang - Pile Buckling Monitoring with Optical Fibre Sensing Technology
32	K. Kawano, Y. Kitamoto, T. Yoshida, T. Mikami, T. Ikejiri, J. Wu - Evaluation of Deformation Characteristics of Soils by Falling Ball Testing and Its Practical Use as Quality Control Testing Device
33	W.T. Lai, Q. Ye, C. Veeresh - Application of Observational Method in ERSS System
34	C.C. Ng, C.W. Ong, N.H. Choong, R.F. Shen, P. O. Y. Sun - Design Challenges of Bored Tunnelling for Deep Underground Water Pipe Installation in Downtown Singapore
35	M. Karthikeyan - Rainfall Thresholds for Forecasting Landslides in Singapore
36	S.C. Ng, C.J. Wong - Design and Settlement Monitoring of Embankment on Soft Ground in Southwest Sabah
37	F. Phangkawira, C.S. Choo, D.E.L. Ong - Usage of Pressuremeter Tests in Highly Fractured and Weathered Phyllite for the Assessment of Jacking Forces
38	C.S. Choo, D.E.L. Ong - Generalised Tangential Approach for Characterisation of Granular Materials for Pipe-Jacking Work
39	M.I. Peerun, D.E.L. Ong, C. Desha, Oh E, C.S. Choo - Recent Advancement in Fundamental Studies of Particulate Interaction and Mechanical Behaviour Using 3-D Printed Synthetic Particles
40	H. Wei, B. Kok, M. Sams - Reliability-based Design of Post Construction Settlement and Global Stability for Port Reclamation in Kalibaru, Indonesia
41	P.T.Lee, Y.C.Tan, B.L. Lim, W.H.Ng - Driven Spun Piles in Soft Alluvium Overlain by Limestone Formation
42	NNN Daud - Dynamic Cone Penetration (DCP) Data Analysis in Designing Shallow Foundation
43	Jason K.H. Lim, M. Kebel, S. Ebbert, R. Durand - Geosynthetic Concrete Formworks for Pipeline Covers enhancing the Safety against Buoyancy, Uplift and Mechanical Damages

CONFERENCE REGISTRATION FORM

1st MGS - GEOSS GEOTECHNICAL CONFERENCE (1MGSSC) 2019 SECRETARIAT

Suite 203, MBE One Utama,
 Lot LG109B, One Utama Shopping Centre,
 No. 1, Lebuhr Bandar Utama, 47800 Petaling Jaya,
 Selangor Darul Ehsan, Malaysia.
 E-mail: mgssc2019@gmail.com

Conference Registration Fee

Category	Registration Fee	
Participants	Early Bird (before 31 May 2019) Ringgit Malaysia	Normal (after 31 May 2019) Ringgit Malaysia
Members - MGS, GEOSS, IEM, ISSMGE	700.00	800.00
Presenting Authors	600.00	700.00
Local Students	500.00	600.00
Overseas Students	600.00	700.00
Non-Members	800.00	900.00

No.	Name of Participant(s)	Membership No. / Grade	Email Address	Contact No.	Amount (RM)
1					
2					
3					
4					
5					
TOTAL					

Payment Method

For your convenience, we have arranged ways for you to pay your registration fee, i.e. payment by Local/Banker's Cheque and Internet Online/Telegraphic Bank Transfer. In summary, you can make payments as follows:

- (a) Local/Banker's cheque made payable to "**MALAYSIAN GEOTECHNICAL SOCIETY**".
- (b) Internet Online/Telegraphic Bank Transfer (Please attach soft copy of payment advice): -
 - Account Name: **MALAYSIAN GEOTECHNICAL SOCIETY**
 - Account Number: **281-00-01231-6**
 - Bank Name: **Hong Leong Bank Berhad**
 - Bank Address: **No. 9 & 11, Jalan 52/2, PJ New Town, 46200 Petaling Jaya, Selangor**
 - Swift Code: **HLBBMYKL**

Please take note that payment should, where necessary, include all bank charges.

CONFERENCE REGISTRATION FORM

Contact Person:	
Organization:	
Position:	
Mailing Address:	
Contact No.:	
E-mail:	
Date:	

CANCELLATION POLICY

Cancellation after registration will not be considered. However, replacement of registered participant can be made with prior notice to the organizer not later than 31st May 2019. The replacement participant will be charged according to the registration fee category.

SPONSORSHIP & ADVERTISEMENT FORM

1st MGS - GEOSS GEOTECHNICAL CONFERENCE (1MGSSC) 2019 SECRETARIAT

Suite 203, MBE One Utama,
 Lot LG109B, One Utama Shopping Centre,
 No. 1, Lebuhr Bandar Utama, 47800 Petaling Jaya,
 Selangor Darul Ehsan, Malaysia.

E-mail: mgssc2019@gmail.com

Please tick (✓) on the appropriate boxes below:

Type of Sponsor / Advertisement	Amount (RM)	Sponsor's Entitlement
Platinum	20,000.00	<ul style="list-style-type: none"> 4 complimentary conference participants Inscription & Company Logo printed on conference bag Company Logo printed on front cover of programme booklet 1 full colour page advertisement
Gold	15,000.00	<ul style="list-style-type: none"> 3 complimentary conference participants Inscription & Company Logo printed on thumbdrive Company Logo printed on front cover of programme booklet 1 full colour page advertisement
Silver	10,000.00	<ul style="list-style-type: none"> 2 complimentary conference participants Inscription & Company Logo printed on lanyard Company Logo printed on front cover of programme booklet 1 full colour page advertisement
Bronze	5,000.00	<ul style="list-style-type: none"> 1 complimentary conference participant Company Logo printed on front cover of programme booklet 1 full colour page advertisement
Back Cover	3,500.00	<ul style="list-style-type: none"> 1 full colour back cover page advertisement
Inside Front Cover	2,500.00	<ul style="list-style-type: none"> 1 full colour inside front cover page advertisement
Inside Back Cover	2,000.00	<ul style="list-style-type: none"> 1 full colour inside back cover page advertisement
Full Page	1,000.00	<ul style="list-style-type: none"> 1 full colour page advertisement

Note: First come first serve basis

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Organization:	
Position:	
Mailing Address:	
Contact No.:	
E-mail:	

Company Stamp:

Signature:

Name:

Date:

EXHIBITION FORM

1st MGS - GEOSS GEOTECHNICAL CONFERENCE (1MGSSC) 2019 SECRETARIAT

Suite 203, MBE One Utama,
 Lot LG109B, One Utama Shopping Centre,
 No. 1, Lebuhr Bandar Utama, 47800 Petaling Jaya,
 Selangor Darul Ehsan, Malaysia.
E-mail: mgssc2019@gmail.com

Name of Exhibitor:

Address:

Tel (O): Fax: H/Phone:

Contact Person: Email:

Please tick (✓) on the appropriate boxes below:

	1 no. Type A Exhibition Booth - Size: 3m (L) x 2m (W) No. _____ <i>(Please indicate selected booth no. based on layout in Appendix 1)</i>	RM14,000.00 with 2 complimentary conference participants
	1 no. Type B Exhibition Booth - Size: 3m (L) x 2m (W) No. _____ <i>(Please indicate selected booth no. based on layout in Appendix 1)</i>	RM10,000.00 with 1 complimentary conference participant

Note: First come first serve basis

(a) I enclosed herewith a Local/Banker's Cheque no. for the sum of RM being full payment for the cost of exhibition.

All Local/Banker's Cheque shall be made payable to **"MALAYSIAN GEOTECHNICAL SOCIETY"**

(b) Cash deposit / Cheque Deposit / Internet Online Banking Transfer to: -

Account Name: **MALAYSIAN GEOTECHNICAL SOCIETY**
 Account Number: **281-00-01231-6**
 Bank Name: **Hong Leong Bank Berhad**

Company Stamp:

Signature:

Name:

Designation:

Date:

APPENDIX 1

