



AGSSEA

19TH SOUTHEAST ASIAN GEOTECHNICAL CONFERENCE & 2ND AGSSEA CONFERENCE

Deep Excavation and Ground Improvement

31 May – 3 June 2016

Dorsett Grand Subang, Subang Jaya, Malaysia



Bulletin No. 2

**Southeast Asian Geotechnical Society (SEAGS)
Association of Geotechnical Societies in Southeast Asia (AGSSEA)
Malaysian Geotechnical Society
The Institution of Engineers, Malaysia**

INTRODUCTION

The 19th Southeast Asian Geotechnical Conference and 2nd Association of Geotechnical Societies in Southeast Asia Conference (19SEAGC-2AGSSEAC) will be held in Kuala Lumpur, Malaysia on 31 May – 3 June 2016. A pre-conference short course will be held on 30 May 2016 and the Southeast Asia Young Geotechnical Engineers' Conference on 31 May 2016. The Southeast Asian Geotechnical Society was founded in 1967 at AIT Bangkok by Dr Za-Chieh Moh. In 2007 the Association of Geotechnical Societies in Southeast Asia was founded also by Dr Za-Chieh Moh. At the 17SEAGC held in Taipei in 2010, it was decided that the 18SEAGC-1AGSSEA Conference will be held in Singapore in 2013. The Singapore Conference was a great success with more than 350 participants. This 19SEAGC-2AGSSEAC to be held in Kuala Lumpur, Malaysia is also expected to be well supported and successful. The Conference will have an Opening Keynote Address, Chin Fung Kee Lecture, Za-Chieh Moh Lecture, S L Lee Lecture, Keynote Lectures, Special Lectures, and Special Session Lectures to be delivered by distinguished geotechnical experts and eminent academicians. Contributed papers from member countries and abroad will also be presented.

CONFERENCE THEME

The Conference theme is **Deep Excavation and Ground Improvement**.

Sub Themes include:

- Design Analysis and Modelling
- Embankments and Dams
- Engineering Geology and Rock Mechanics
- Field Testing and Performance Monitoring
- Geosynthetics and Geo-Products
- Ground Improvement and Stabilization
- Shallow and Deep Foundations
- Slope Stability, Excavations and Retaining Structures
- Soil Characterization and Properties
- TC211 Ground Improvement
- TC217 Land Reclamation
- Tunnelling and Underground Space Development

More details about the Conference can be found at <http://www.mygeosociety.org/seagc2016>

TENTATIVE PROGRAMME

| TENTATIVE PROGRAMME | | | |
|--------------------------------|---------------|---|--|
| MONDAY, 30 MAY 2016 | Time / Venue | | |
| | 18:00 - 20:00 | Registration & Setting-up Exhibition Booths | |
| | Time / Venue | Conference Ballroom | |
| TUESDAY, 31 MAY 2016 | 08:00 - 08:45 | Registration | |
| | 08:45 - 09:15 | Opening Ceremony | |
| | 09:15 - 10:00 | OPENING KEYNOTE ADDRESS : Professionalism and Ethics of Geotechnical Engineering <i>by Z.C. Moh</i> | |
| | 10:00 - 10:40 | Keynote 1: [Chin Fung Kee Lecture] : Recent Advances in Pile Testing <i>by K. Ishihara</i> | |
| | 10:40 - 11:10 | Morning Coffee / Tea Break | |
| | | Conference Ballroom | |
| | 11:10 - 11.50 | Special Lecture 1: Grain Crushing Under Pile Tip Explored by Acoustic Emission <i>by Ikuo Towhata and Wuwei Mao (Asia, ISSMGE)</i> | |
| | 11.50 - 12.20 | Special Lecture 2: Advancements in Rail Track Geotechnology at Increased Speeds and Axle Loads <i>by Buddhima Indraratna, Sanjay Nimbalkar and Chalachat Rujikiatkamjorn (SEAGS)</i> | |
| | 12.20 - 12.50 | Special Lecture 3: Modelling the Effects of Strain- and Path-dependent Soil Stiffness on Soil-Structure Interaction Problems: An Engineer's Perspective <i>by C.W.W. Ng, J.W. Shi, G.H., Lei, Y.H., Chen and H.S. Sun (Hong Kong)</i> | |
| | 12:50 - 13:50 | Lunch | |
| | | Hall 1 | Hall 2 |
| | 13:50 - 15:20 | 1) 2) 3) Session: Ground Improvement 1 4) 5) 6) | 1) 2) 3) Session: Excavation & Retaining Structures 1 4) 5) 6) |
| | 15:20 - 15:50 | Afternoon Coffee / Tea Break | |
| | 15:50 - 17:35 | 1) 2) 3) Session: Ground Improvement 2 4) 5) 6) 7) | 1) 2) 3) Session: Excavation & Retaining Structures 2 4) 5) 6) 7) |
| | | SEAGS General Committee Meeting & AGSSEA Council Meeting | |

| | | | | | | | |
|------------------------|---------------|---|--|--|---|--|---|
| WEDNESDAY, 1 JUNE 2016 | Time / Venue | Conference Ballroom | | | | | |
| | 08:45 - 09:25 | Keynote 2 : [SL Lee Lecture]: Innovations in Soil Improvement Method by J. Chu | | | | | |
| | 09:25 - 09:55 | Special Lecture 4: A Brief Perspective on Forensic Geotechnics by Yee Thien Seng (Malaysia) | | | | | |
| | 09:55 - 10:25 | Special Lecture 5: Performance and Analyses of Thick Soft Clay Deposit Improved by PVD with Surcharge Preloading and Vacuum Consolidation - A Case Study at CMIT by P.V. Long, L.V. Nguyen and A.S. Balasubramaniam (Vietnam) | | | | | |
| | 10:25 - 10:55 | Special Lecture 6: Trenchless Construction Method for Roads and Underpasses in Singapore by Tiong Guan Ng and Yogarajah Indrayogan (Singapore) | | | | | |
| | 10:55 - 11:25 | Morning Coffee / Tea Break | | | | | |
| | | Hall 1 | | Hall 2 | | Hall 3 | |
| | 11:25 - 12:55 | 1) 2) 3) 4) 5) 6) | Session: Ground Improvement 3 | 1) 2) 3) 4) 5) 6) | Session: Excavation & Retaining Structures 3 | 1) 2) 3) 4) 5) 6) | Session: Shallow & Deep Foundations 2 |
| | 12:55 - 13:55 | Lunch | | | | | |
| | 13:55 - 15:25 | 1) 2) 3) 4) 5) 6) | Session: Design Analysis & Modelling 1 | 1) 2) 3) 4) 5) 6) | Session: Field Testing & Performance Monitoring 1 | 1) 2) 3) 4) 5) 6) | Session: Soil Characterization & Properties 1 |
| | 15:25 - 15:55 | Afternoon Coffee / Tea Break | | | | | |
| | 15:55 - 17:40 | 1) 2) 3) 4) 5) 6) 7) | Session: Design Analysis & Modelling 2 | 1) 2) 3) 4) 5) 6) 7) | Session: Field Testing & Performance Monitoring 2 | 1) 2) 3) 4) 5) 6) 7) | Session: Soil Characterization & Properties 2 |
| | 18:30 - 21:30 | Welcome Cocktail & Conference Dinner | | | | | |
| THURSDAY, 2 JUNE 2016 | Time / Venue | Conference Ballroom | | | | | |
| | 08:45 - 09:15 | Keynote 3 : [Za.Chieh Moh Lecture]: Lessons Learned from Designing High-rise Building Foundations by H. Poulos | | | | | |
| | 09:15 - 09:45 | Special Lecture 7: Development of Seismic Hazard and Risk Maps for New Seismic Building and Infrastructure Codes in Indonesia by Masyhur Irsyam, Wayan Sengara, Fahmi Aldiamar, Sri Widiyantoro, Wahyu Triyoso, Danny Hilman, Engkon Kertapati, Irwan Meilano, Suhardjono, M. Asrurifak, M. Ridwan, Daniel Hutabarat, Indra Jati Sidi and Widiadnyana Merati (Indonesia) | | | | | |
| | 09:45 - 10:15 | Special Lecture 8: Long Term Study on Pile-Soil Interactions in Subsiding Ground with Surcharge Effects – A Case History by Woo Siu-Mun (Taiwan) | | | | | |
| | 10:15 - 10:45 | Special Lecture 9: (Thailand) | | | | | |
| | 10:45 - 11:15 | Morning Coffee / Tea Break | | | | | |

| THURSDAY, 2 JUNE 2016 | | Hall 1 | Hall 2 | Hall 3 |
|-----------------------|---------------|---|---|------------------------------------|
| | 11:15 - 12:45 | 1) 2) 3) Session: Design Analysis & Modelling 3 4) 5) 6) | 1) 2) 3) Session: Tunnelling & Underground Space Development 4) 5) 6) | Hosted by TC211 Ground Improvement |
| | 12:45 - 13:45 | Lunch | | |
| | 13:45 - 15:15 | 1) 2) 3) Session: Design Analysis & Modelling 4 4) 5) 6) | 1) 2) 3) Session: Engineering Geology & Rock Mechanics 4) 5) 6) | Hosted by TC217 Land Reclamation |
| | 15:15 - 15:45 | Afternoon Coffee / Tea Break | | |
| | 15:45 - 17:30 | 1) 2) 3) 4) Session: Geosynthetics & Geo-Products 5) 6) 7) | 1) 2) 3) 4) Session: Slopes, Embankments & Dams 5) 6) 7) | SEAGS General Membership Meeting |
| END | | | | |

OPENING KEYNOTE ADDRESS

Dr. Za-Chieh Moh will deliver the Opening Keynote Address. Title: Professionalism and Ethics of Geotechnical Engineering

CHIN FUNG KEE LECTURE

Prof. Kenji Ishihara will be the Chin Fung Kee Lecturer. Title: Recent Advances in Pile Testing

ZA-CHIEH MOH LECTURE

Prof. Harry Poulos will be the Za-Chieh Moh Lecturer. Title: Lessons Learned from Designing High-rise Building Foundations

S L LEE LECTURE

Prof. Jian Chu will be the S L Lee Lecturer. Title: Innovation in Soil Improvement Methods

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| | |
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INTRODUCTION OF KUALA LUMPUR

Kuala Lumpur (KL) is like a melting pot of all the wonderful cultures that make up Asia. As the capital of Malaysia, it epitomises the nation's slogan "simply Asia". From art to history to food, one's senses are embraced by the city's dynamic surroundings.

This is a majestic city that was founded in 1857 and now in the 21st Century it brings together the past, the present and the future. There is so much to see in Kuala Lumpur - Chinatown with charming old buildings and makeshift shops, then there's Little India while the Jamek Mosque which celebrates its centenary in 2014, is one of the oldest mosques in the city.



These historical landmarks blend in superbly with the modern day ones. The KL Tower is one of the world's tallest concrete structures which functions as a telecommunication tower. The skyline of Kuala Lumpur is dominated by a structure that is famous the world over - the tallest Twin Towers in the world known as the Petronas Towers.

If it's food that's your thing then KL is the place to be because this place is a feast for the senses and will tempt any taste bud from the many hawker centres through to some of the finest restaurants. Another activity that you could definitely look forward to is shopping in KL.

CONFERENCE VENUE

The conference will be held at Dorsett Grand Subang in Subang Jaya. Nestled in the heart of Subang Jaya, Dorsett Grand Subang offers opulent hotel guest rooms and suites in the city's most upscale entertainment hub, shopping district and tourist attraction. Located just 35 minutes from Kuala Lumpur International Airport, KLIA2 and Sepang International Circuit, the hotel is just a 15-minute drive from Kuala Lumpur City Centre. Hotel facilities include:-

- Business centre
- Laundry and valet service
- Clark Hatch Fitness Centre
- Handicap access
- Parking facilities for up to 350 cars
- Parking space for up to 2 coaches
- Concierge service
- Babysitting service
- Foreign exchange
- Complimentary scheduled shuttle service to designated destinations
- Valet parking
- High-speed Internet access
- Beauty shop
- Tanjung Wellness Spa
- Non-smoking Rooms

ACCOMMODATION

A wide range of hotels of varying quality, comfort and price would be available near the Conference venue such as Holiday Villa Subang, Empire Hotel, Subang and Cititel Midvalley. Please refer to the conference website at www.mygeosociety.org/seagc2016.

Technical Visits and Tours

Site 1:

Foundation and Substructure Construction for KL118 Project in Kuala Lumpur City Centre

The KL118 will be located in the busiest part of the Kuala Lumpur (KL) city. KL118 will be the highest skyscraper in Malaysia and one of the highest skyscraper in the world upon completion in year 2020. The KL118 development is situated next to the historical Merdeka Stadium and will connect to a new MRT Station via underground links. This integrated project will include a museum, a luxury hotel, office, retail shopping mall and service apartments.

KL118 project is located on Kuala Lumpur Metasedimentary geology formation. Since the basement of the new structure will be located adjacent to the historical Merdeka Stadium and a newly completed MRT tunnel and underground station strict movement criteria for the basement and foundation construction were imposed.

To meet the tight construction schedule of 50 months, the project team has adopted unusual construction technique including circular diaphragm wall cofferdam for foundation construction of the tower, stiff diaphragm wall for 6 level basement construction and large diameter bored pile foundation to support the super structures. Prefabricated stanchions will be placed in the large diameter bored piles in order to facilitate the basement construction using the 'Top Down' method.

The project team has gathered the best talents from around the globe for the project. Both local and international designers and contractors are working together for the success of this challenging project

Site 2:

Ground Improvement work at West Coast Expressway (WCE)

The new West Coast Expressway will be built on the west coast of Peninsula Malaysia. The Expressway will present an alternative route to the North-South Expressway from Banting, Selangor to Changkat Jering, Perak. It will be the second-longest inter-state tolled highway in Malaysia upon completion. Construction will take five years at a cost of RM4.6bil. As the expressway transverse from Banting to Taiping, it will go through different geological formations, (the subsoils encountered vary from soft alluvium deposit to residual soil). Various ground treatment will be implemented especially when the embankment crosses through very soft, low permeability and highly compressible subsoil layer (alluvium deposits) with thickness varying from 15m to 40m. Ground treatment techniques such as excavate & replace, prefabricated vertical drain (PVD), geosynthetics basal reinforcement, stone columns and piled embankment have been designed to meet the stringent performance requirements.

SOCIAL PROGRAMME

Accompanying persons will enjoy a memorable experience with local tours, scenic spots, cultural delights, shopping and gourmet food. More information will be given at the conference website site at www.mygeosociety.org/seagc2016.

OTHER CONTENTS

- | | |
|---------------------------------|---|
| i. Conference Registration Form | iv. Sponsorship Opportunities |
| ii. Exhibition Booths | v. List of Abstracts Received |
| iii. Advertisement Booking Form | vi. Young Geotechnical Engineers Conference |

CONFERENCE REGISTRATION FORM

SEAGC2016 Secretariat

c/o IEM Training Centre Sdn. Bhd.

No. 33-1A (1st floor), Jalan 52/18, P.O. Box 224 (Jalan Sultan)

46720 Petaling Jaya, Selangor Darul Ehsan, MALAYSIA

Tel. No.: +(603) 7958 6851 Fax No.: +(603) 7958 2851

E-mail: seagc2016@gmail.com

Conference Registration Fee

| Category | Registration Fee | |
|--|---|--|
| Participants | Normal (after 31 Dec. 2015) Ringgit Malaysia | Early Bird (before 31 Dec. 2015) Ringgit Malaysia |
| Members – MGS, IEM, SEAGS, AGSSEA, ISSMGE, ICE | 1500 | 1300 |
| Presenting Authors | 1300 | 1000 |
| Local Students* | 800 | 600 |
| Non Members | 2000 | 1800 |
| Overseas Students | 1000 | 900 |
| Accompanying persons* | 800 | 600 |

*Not entitled to Conference bag and Proceedings.

| No. | Name of Participant(s) | Amount |
|------------------|------------------------|--------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| Sub Total Amount | | |
| Add 6% GST | | |
| TOTAL | | |

I will be accompanied by: ☐ Spouse ☐ Children: _____ ☐ Guest(s): _____

| No. | Name of Accompanying Persons(s) | Amount |
|------------------|---------------------------------|--------|
| 1 | | |
| 2 | | |
| Sub Total Amount | | |
| Add 6% GST | | |
| TOTAL | | |

| | |
|-----------------------------|--|
| GRAND TOTAL PAYABLE: | |
|-----------------------------|--|

PAYMENT METHOD

For your convenience, we have arranged ways for you to pay your registration fee, ranging from payment by Banker's Draft, Telegraphic Bank Transfer or credit card. In summary, you can make payments as follows. ***Please take note that payment should, where necessary, include all bank charges.***

(a) Local cheque/Banker's cheque made payable to "IEM TRAINING CENTRE SDN BHD".

(b) Telegraphic Bank Transfer (Please forward soft copy of payment advice):-

Account Name: **IEM Training Centre Sdn. Bhd.**
 Account Number: 3197605506
 Bank Name: Public Bank Berhad
 Bank Address: No. 1, 3 & 5, Jalan 52/2, PJ New Town Branch, 46050 Petaling Jaya, Selangor, Malaysia
 Swift Code: PBBEMYKL

(c) Credit Card. Please charge to my credit card number below the amount of

Card Type: VISA ☐ MASTERCARD ☐ EXPIRY DATE: MM / YY

Card Number:

Cardholder's Name:

Signature

Date

CANCELLATION POLICY:

Cancellation deadline for a registration refund request less 30% is 30 April 2016. Cancellation received after this date will not be considered. All refunds will be issued after the conference. However, replacement of registered participant can be made prior to the deadline and with prior notice to the organizer. The replacement participant will be charged according to the registration fee category.

EXHIBITION BOOTHS

| Selangor 3 Hall | Selangor 2 Hall | Selangor 1 Hall | |
|---|--|---|--------------------------|
| <div>C3- Nehemiah</div> <div>C6- Plaxis</div> <div>C2 - TenCate Geosynthetics</div> <div>C5- GPS Lands</div> <div>C1 - TenCate Geosynthetics</div> <div>C4 - Datgel</div> | <div>B6 - Soil Instruments</div> <div>B12 - Glostrex</div> <div>B5- Geonamics</div> <div>B11- Naue Asia</div> <div>B4- ICP</div> <div>B10 - Otte Utama</div> <div>B3 - Mega Geoproducts</div> <div>B9- CeTeau</div> <div>B2 - Bachy Soletanche</div> <div>B8- Measuran Inc</div> <div>B1 - Menard Geosystem</div> <div>B7 - Fugro Loadtest s/b</div> | <div>A5 - Keller</div> <div>A6 - GDS Instrument</div> <div>A3 - Keller</div> <div>A4 - Econpile</div> <div>Premier A1</div> <div>Premier A2</div> | <div>Main Entrance</div> |
| Section C | Section B | Section A | |

EXHIBITION BOOTH BOOKING FORM

SEAGC2016 Secretariat

c/o IEM Training Centre Sdn. Bhd.

No. 33-1A (1st floor), Jalan 52/18, P.O. Box 224 (Jalan Sultan)

46720 Petaling Jaya, Selangor Darul Ehsan, MALAYSIA

Tel. No.: +(603) 7958 6851

Fax No.: +(603) 7958 2851

E-mail: seagc2016@gmail.com

BOOKING FEES

[Note: From 1 April 2015, 6% Goods & Services Tax (GST) will be applicable for all payments.]

| Section | Cost / Booth | No. of Booths | Total |
|--------------|--------------|---------------|-------|
| Premier A | RM 50,000.00 | | |
| Total | | | |

| | | | | |
|-----------------|-------------|--|----------|--|
| Organization: | | | | |
| Contact Person: | | | | |
| Position: | | | | |
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| Contact No.: | Office No.: | | Fax No.: | |
| Mobile No.: | | | | |
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Date:

Signature:

Company Stamp:

PAYMENT METHOD

For your convenience, we have arranged ways for you to pay your registration fee in Ringgit Malaysia, ranging from payment by local cheque, Banker's cheque or Telegraphic Bank Transfer. In summary, you can make payments as follows:

- (a) Local cheque or Banker's cheque made payable to "**IEM Training Centre Sdn. Bhd.**".
- (b) Telegraphic Bank Transfer (Please forward soft copy of payment advice):-

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|-----------------|---|
| Account Name: | IEM Training Centre Sdn. Bhd. |
| Account Number: | 3197605506 |
| Bank Name: | Public Bank Berhad |
| Bank Address: | No. 1, 3 & 5, Jalan 52/2, PJ New Town Branch, 46050 Petaling Jaya, Selangor, Malaysia |
| Swift Code: | PBBEMYKL |

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Tel No.: +(603) 7958 6851 Fax No.: +(603) 7958 2851 E-mail: seagc2016@gmail.com

| Tick | Location | Advertisement Rates |
|------|-------------------|---------------------|
| | Inside Front Page | RM 10,000.00 |
| | Outside Back Page | RM 8,000.00 |
| | Inside Back Page | RM 7,000.00 |
| | Inside Page | RM 5,000.00 |

Note: From 1 April 2015, all payments must add 6% Goods & Services Tax (GST).

We wish to advertise in the Souvenir Programme as indicated (√) above and enclose herewith Banker's Cheque / Local Cheque No.issued to "**IEM Training Centre Sdn. Bhd.**" for the sum of Ringgit Malaysia

| | |
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Date:.....

Signature:
 Company Stamp:

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Please tick (✓) the appropriate boxes below:

| Type of Sponsor | Amount (RM) | Sponsor's Entitlement |
|---|------------------------|---|
| (1) <input type="checkbox"/> Platinum | Above 70,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 2 Top organization managers invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 4 Free conference participants |
| (2) <input type="checkbox"/> Gold | 60,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 2 Top organization managers invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 2 Free conference participants |
| (3) <input type="checkbox"/> Silver | 30,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 1 Top organization manager invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 1 Free conference participant |
| (4) <input type="checkbox"/> Bronze | 15,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 1 Top organization manager invited to official functions (conference opening ceremony only) (c) 1 Free conference participant |
| (5) <input type="checkbox"/> Conference Bags | 40,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 1 Top organization manager invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 2 Free conference participants (d) Inscription & Company Logo printed on conference bag (e) 3 Sample bags will be given for record |
| (6) <input type="checkbox"/> Lunch | 30,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 1 Top organization manager invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 1 Top organization manager invited to the sponsored lunch (d) 1 Free conference participant |
| (7) <input type="checkbox"/> Banquet | 60,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 1 Top organization manager invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 2 Free conference participants (d) 1 Top organization manager invited to the sponsored banquet (e) Pamphlet distribution & Display banners at banquet hall entrance |
| (8) <input type="checkbox"/> Welcoming Reception | 30,000.00 | (a) Acknowledgement in the Conference Proceedings (b) 1 Top organization manager invited to official functions (eg. : conference opening/closing ceremony & dinner) (c) 2 Free conference participants (d) Pamphlet distribution & Display banners at conference hall entrances |

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Tel. No.: +(603) 7958 6851 Fax No.: +(603) 7958 2851 E-mail: seagc2016@gmail.com

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| Contact Person: | | | | |
| Position: | | | | |
| Postal Address: | | | | |
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| Contact No.: | Office No.: | | Fax No.: | |
| Mobile No. | | | | |
| E-mail: | | | | |

Date:.....

Signature:
 Company Stamp:

DETAILS OF ABSTRACTS RECEIVED

The Organizing Committee of the 19SEAGC-2AGSSEAC is pleased to announce that 193 abstracts have been received.

| SESSION: DESIGN ANALYSIS AND MODELLING | |
|--|--|
| No. | Author(s) - Paper Title |
| 1 | Supia Khatun, Swapan Majumder, Ambarish Ghosh and Djrubojoyti Sen - Influence of Non Homogeneous Moisture Content on Strength Reduction and Stability of River Bank |
| 2 | An Phung Vinh and Dung Nguyen Quoc - An Analytical Method for Calculating the Bearing Capacity of Soil Cement Column Using Jet Grouting Technology |
| 3 | Thushara Madanayaka, Nagaratnam Sivakugan and Julie Lovisa - Study of the Flow beneath a Double-Wall Sheet Pile Cofferdam Using the Method of Fragments |
| 4 | EG Balakrishnan and Sashithren Daramalingam - Application of Dynamic Analysis in Railroad Track Substructure and Ground Treatment Design |
| 5 | Y. H. Ong - Back Analysis of Three Contiguous Bored Pile Walls in Kenny Hill Formation |
| 6 | Choo C.S. and Ong D.E.L. - The Development of a Frictional Jacking Force Model for Nonlinear Soil Behaviour |
| 7 | Leo C. J., Liyanapathirana D.S and Al-Qarawi A. S. - The Approach Problem of an Integral Abutment Bridge Subjected to Cyclic Loading due to Temperature Changes |
| 8 | Phuoc H Dang, Yo-Ming Hsieh, and Horn-Da Lin - Assessment of Building Responses Adjacent to Deep Excavation Using 3D Simulation |
| 9 | Shaw-Shong Liew, Yap-Chong Lee and Wee-Keong Tan - Performance of Confined Grout Modulus in API Pipe using Thick Wall Pile Cylinder Theory |
| 10 | Zaiton Zainal Badri, Syed Baharom Azahar Syed Osman and Indra Sati Hamonangan Harahap - The Correlation between Calculated and Actual Screw Pile Capacity in Malaysia Soil Condition |
| 11 | J.P. Wang - Developing a Local Earthquake Empirical Model with Limited Data: A Bayesian Approach |
| 12 | Chin Yaw Ming - Geotechnical Approach in Determining the Distribution of Moments and Forces for a Strutting System |
| 13 | Mohammad Wasiul Bari, Mohamed A. Shahin and Abdul-Hamid Soubra - Probabilistic Modeling of One-dimensional Soil Consolidation Using Subset Simulation Approach |
| 14 | A. J. Booth, A. Marshall, D. Wanatowski and R. Stace - Investigating the Importance of Material Characterisation and Correlation in an Uncertainty Analysis of a Deep Coal Mine Roadway |
| 15 | Erick Yusuf Kencana and Tiong Guan Ng - Diaphragm Wall Trenching Stability Design Approach |
| 16 | Stefanos Drakos - Stochastic Finite Element Analysis of Shallow Foundation using Polynomial Chaos |
| 17 | A. R. Mazaheri and M. Berneti - Determination Bearing Capacity of Driven Piles in Sandy Soils Using Artificial Neural Networks (Anns) |
| 18 | Hossam Ali, Tamer Elkateb, David Fernandes and Mohamed Askar - Practical Aspects of Numerical Modeling of Prefabricated Vertical Drains in Soft Clay |
| 19 | Aniza Ibrahim, Muhammad Mukhlisin, Othman Jaafar and Mohd. Raihan Taha - Application of Electrical Capacitance Volume Tomography (ECVT) in Geotechnical Engineering |
| 20 | Cécilia Bohn, Timo Ackermann and Wolfgang Wehr - Influence of Geometrical Imperfections on the Behavior of Rigid Soil Reinforcement Columns |
| 21 | C. Moormann and J. Aschrafi - Passive Lateral Thrust and Deformation Effects of Embankments on Piled Bridge Abutments on Soft Ground |
| 22 | Y.G. Derbin, J. Walker, D. Wanatowski and A.M. Marshall - Issues Related to the Selection of Mesh Zone Size in FLAC3D |
| 23 | K.H. Law - 3D Finite Element Modelling of Deep Excavations in Weathered Residual Soils of Kenny Hill Formation Using a Small Strain Stiffness Model |
| 24 | K.H. Law and C.W. Oh - 3D Behaviour of Braced Excavation Under Unbalanced Loading Condition |
| 25 | T. Karech and A. Noui - Design of Foundations on Stone Columns |

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| 26 | <i>Suched Likitlersuang, Chanaton Surarak, Siam Yimsiri, Erwin Oh and Arumugam Balasubramaniam</i> - Identification of Bangkok Subsoil Parameters for Finite Element Analysis of Excavation and Tunnelling |
| 27 | <i>Jia Xie and Barry Wai-Choo Kok</i> - Back Analyses of Long Term Settlement for Highway Embankments on Soft Estuarine Soils |
| 28 | <i>D.W. Chang</i> - Predictions for Seismic Behaviors of Pile Foundations from 3D Dynamic FEM Analysis |
| 29 | <i>Sim Y.S., Yee Y.W., Ong D.E.L. and Leung C.F.</i> - Numerical Simulation of a Stone Column in Thick Soft Clays |
| 30 | <i>Che-Wei Shen, Po-Chun Chi, Jianye Ching and Yu-Gang Hu</i> - Geotechnical Reliability Analysis of Retaining Wall Stability By FORM |
| 31 | <i>Kuo-Hsin Yang, Benson B.C. Hsiung and Y.Y. Tsai and Aila Wahyuning</i> - Establishment of Geotechnical Properties and 3D Numerical Models for Deep Excavation in Jakarta MRT |
| 32 | <i>T.P. Thaker and K.S. Rao</i> - Estimation of Liquefaction Hazard for Surat Urban Territory, South Gujarat, India Using Geophysical and Geotechnical Investigations |

| SESSION: SLOPES, EMBANKMENTS AND DAMS | |
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| 2 | <i>Rajesh Khanna, Manoj Datta and G V Ramana</i> - Influence of Core Thickness on Stability of Downstream Slope of Earth and Rockfill Dams under Steady-State-Seepage |
| 3 | <i>Shota Inoue</i> - A Hydraulic Model Experiment for the Stable Weight of Rubble-Mound Considering the Overflow and Seepage Flow |
| 4 | <i>Thayalan Nall and TaeWoo Eom</i> - Strategy of Staged Construction and Undrained Strength Gain in Soft Soil Engineering – Case Study |
| 5 | <i>Ted Tse</i> - Trial Embankments for NCIG CET3 Project – Economical and Practical Approach for the Development on Soft Ground |
| 6 | <i>Ted Tse</i> - Rail Embankment Construction over Soft Ground on Kooragang Island, Newcastle, NSW, Australia |
| 7 | <i>Shaw-Shong Liew, Kuan-Seng Koo and Fong-Wah Chee</i> - Role of Extendible Basal Reinforcement for Embankment Construction over Soft Soils |
| 8 | <i>Khor C. H.</i> - Geotechnical and Geological Aspects Related to the Design and Construction of Mengkuang Dam Expansion Project |
| 9 | <i>Toh C. K.</i> - Geotechnical Design of a Concrete Face Rockfill Dam on Volcanic Terrain and Seismic Zone in Sabah |

| SESSION: ENGINEERING GEOLOGY AND ROCK MECHANICS | |
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| No. | Author(s) - Paper Title |
| 1 | <i>Tan Boon Kong</i> - Another Glimpse of Engineering Geology and Rock Mechanics in Malaysia |
| 2 | <i>Han Zengqiang and Wang Chuanying</i> - Statistical Regularity of Fractures in Subsurface Rock Masses Based on Borehole Images |
| 3 | <i>Ng Chak Ngoon</i> - Geological Mapping of Slopes at Kuala Lumpur New National Palace Site |
| 4 | <i>Wanatowski D., Yang L.-T., Ekneligoda, T.C., Marshall A.M. and Stace L.R.</i> - Effects of High Temperature on the Mechanical Properties of Sandstone |
| 5 | <i>Dong Hyun Kim, Ivan Gratchev, Erwin Oh and Arumugam Balasubramaniam</i> - Assessment of Rock Slope Weathering Based on the Alteration of Photogrammetric Roughness Data |
| 6 | <i>Ching-Fang Lee, Ting-Chi Tsao, Wei-Kai Huang, Shu-Yeong Chi</i> - The Case Study of Badouzih Rockfall in Northern Taiwan: Mechanism, Numerical Simulation and Hazard Assessment |
| 7 | <i>John Kuna Raj</i> - Relevance of Geology Maps to Excavation Work in Humid Tropical Peninsular Malaysia |

| SESSION: FIELD TESTING AND PERFORMANCE MONITORING | |
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| 2 | W.F. Lee, C.H. Chen, F.C. Lu and Y. K. Lin - Multi-Hazards Safety Monitoring for Bridge Foundations under Storm Water and Scour Using Vibration Technology |
| 3 | Hirochika Hayashi, Toshihiro Hayashi and Hijiri Hashimoto - Estimation of Shear Modulus at Small Strain of Peat Using In-situ Testing |
| 4 | C.S. Chen - Shaft Resistance of Bored Piles Socketed into Granite and Sandstone |
| 5 | Mariela Angeles, John Davies and Chepurthy Veeresh - Advanced Soil Testing and Its Practical Use in the Design of Cut and Cover Excavation in Singapore Old Alluvium |
| 6 | Ooi Teik Aun and Khoo Chee Min - Instrumented Load Test on Bored Cast-in-situ Pile in Kenny Hill Formation |
| 7 | Marie Tungka and Kong Chi Liang - Determining Bedrock Levels with Seismic Refraction, Masw and Electrical Resistivity |
| 8 | Tan Kail Tin - Case Histories of Determining Pile Lengths with Parallel Seismic in Kuala Lumpur MRT Project |
| 9 | Shaw-Shong Liew, Kuan-Seng Koo, Fong-Wah Chee and Pei-Ying Tan - Planning and Interpretation of Instrumented Lateral Pile Test Performance with a Semi Restrained Pile Head Condition |
| 10 | Andrew Yeow Pow Kwei and Raja Sharom Nizam Bin Raja Shoib - Rock Shaft Resistance of Bored Pile Socketed into Decomposed Malaysia Granite |
| 11 | T. A. Ooi, N. C. Tung and B. Y. Tung - Performance of Instrumented Micropiles in Kenny Hill Formation |
| 12 | Hailei Kou, Jian Chu and Wei Guo - Effect of Residual Forces on Pile Bearing Capacity |
| 13 | Pierre Frappin - CYLJET® An Innovative Method for Jet Grouting Column Diameter Measurement |
| 14 | Pierre Frappin - The Electric Cylinder® A Technique for Cavity Detection |
| 15 | Richard Ong - Lessons from Menard Pressuremeter Test Conducted for a Stone Column Project |
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| 17 | J.W. Dijkstra and J.W. Vink - The Added Value of the Use of GPS Based Logging Systems on Vertical Drain Projects |
| 18 | J. Daramalinggam and P.V.S.R. Prasad - Load Tests on Vibro Stone Columns in Various Soil Conditions |
| 19 | Senthuran Arulanantham, Indrayogan Yogarajah and Erick Yusuf Kencana - Static Axially Loaded Instrumented Bored Piles |
| 20 | Hung-Jiun Liao, Chin-Lung Chiu, Shih-Hao Cheng, Ricky K. N. Wong - Use SAASCAN to Measure the Drilling Alignment of Jet Grouting |
| 21 | Bun Pin Tee, Hisham Mohamad, Mun Fai Chong and Ko Han Ang - Instrumented Pile Load Testing with Distributed Fiber Optic Strain Sensor |

| SESSION: GEOSYNTHETICS AND GEO-PRODUCTS | |
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| 1 | N. Yarahmadi, I. Gratchev, D. Sh. Jeng and D. Gibbs - Behavior of Geonets in Leachate Collection and Detection Systems in Landfills |
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| 4 | Thitapan Chantachot, Warat Kongkitkul and Fumio Tatsuoka - Modelling of Temperature Effects on Elasto-Viscoplastic Behaviours of Polymer Geogrids |
| 5 | Soukat Kumar Das and N. K. Samadhiya - Numerical Modelling of Prestressed Geogrid Reinforced Soil under Different Conditions |
| 6 | T. A. Ooi, C.H. Tee and C.B. Chan - Application of Geogrid in Soft Ground in Malaysia |
| 7 | T. A. Ooi, C. H. Tee and C. B. Chan - Rehabilitation of Cut Slope Failures Using Geosynthetics in Malaysia |

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| 8 | Wei Guo, Jian Chu and Hailei Kou - Design Issues for Geosynthetic Tubes and Mats |
| 9 | S.N. Pang, R.C.L. Wong and Fazlee Daud - Reinstatement of Failed Embankment using High Strength Woven Geotextile as Basal Reinforcement in Johor, Malaysia |
| 10 | C.J. Jong and G.Y.T. Tan - Geosynthetics with Combination Functions for Effective Road Subgrade Stabilisation |
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| 12 | H.B. Ng - An Evaluation of HDPE Geomembrane after 10 Years of Service in Thailand |
| 13 | Ajay Kumar Verma, Maheboobsab B. Nadaf, Sushovan Dutta, Yebeltal Zerie and J. N. Mandal - Reduction of Static Load on Buried Pipes by EPS Geofoam Inclusions |

| SESSION: GROUND IMPROVEMENT AND STABILIZATION | |
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| 1 | I. B. Mohamed Jais, K. Mohamed, N. Sidek, M. A. Md. Ali and H. Muhamad - Polyurethane Foam/Resin for Immediate Solution to Ground Repair and Modification |
| 2 | Van Ngoc Pham, Jinsong Huang, Richard Kelly and Brett Turner - On the Durability of Soil-Cement Columns in Coastal Areas |
| 3 | Philip Robins and Tim Pervan - Design and Construction of Ground Improvements for Bridges on the Mackays to Peka Peka Expressway, New Zealand |
| 4 | T. A. Ooi, K. H. Ngiam, Y. G. Tan and S. Low - Challenges of an Earthwork Control and Planning for the Redevelopment of an Existing Golf Course |
| 5 | Allan Chwee Yew Lun and EG Balakrishnan - Lightweight Fill to Reduce Settlement on Bridge Approach Embankments Treated with Vibro Stone Columns |
| 6 | Ambarish Ghosh and Debarshi Das - Study on Liquefaction Mitigation of Soft Soil by Stone Column |
| 7 | Thayalan Nall and Satha Iyathurai - Ground Improvement by Dynamic Replacement – Case Study |
| 8 | Gouw Tjie-Liong - Dynamic and Vibro Compaction, A Proposed Design Guideline for Practicing Engineers |
| 9 | Berkay Koçak, H. Turan Durgunoğlu, Fatih Kulaç and Numan Velioglu - Use of High Modulus Column as a Soil Improvement Technique, Quality Control Tests and Back Calculation Studies – A Case History |
| 10 | Binh Nguyen T.T., Takeyama T. and Kitazume M. - Centrifuge Model Tests on Deep Mixing Columns Reinforced by a Stabilized Shallow Mixing beneath an Embankment |
| 11 | Mohd Redzuan Ahmad and EG Balakrishnan - Performance of Ground Improvement Works for an Electrified Railway Project in Soft Marine Clay Deposit |
| 12 | He Z.W., Lin E., Leong K.W. and Raju V.R. - Design and Performance of Ground Improvement for a Ship Hull Workshop in Singapore |
| 13 | GW McIntosh and AJ Barthelmeß - Building on a Landfill: Investigation, Design and Construction |
| 14 | Annette Esnault Filet, Ira Gutjahr, Jean-François Mosser and Leslie Sapin - A Novel Grouting Process for the Reinforcement of Low Permeability Soils with the Use of Biocementation by Biocalcis® |
| 15 | Felix Leclair, Yann Bourgoin, Richard Ong and Jerome Racinais - Application of Controlled Modulus Columns for Refinery and Petrochemical Tank Farm |
| 16 | Benjamin Thomas, Le Dinh Bao Quoc and Richard Ong - Quality Control of a Rigid Inclusion Project for Petrochemical Storage Tanks |
| 17 | R.I. Shinkman and A.B. Ponomarev - Experimental and Numerical Studies of Capability of Applying Geotextile Encased Stone Columns for Improvement of Weak Soil Base in Geological Conditions of Perm Region of Russia |
| 18 | Prasad. P.V.S.R., Yee. Y.W. and V.R. Raju - Case Histories of Deep Soil Mixing in Malaysia |
| 19 | Sreenivas. P., Joe Chang. H.K. and Prasad, P.V.S.R - Grouting in Limestone for MRT Tunnel Project in Kuala Lumpur |
| 20 | Phua Y.L., Ong D.E.L., Ngu L.H., Nissom P.M. and Mok B.H. - Ground improvement via Microbial-Induced Calcite Precipitation using Push-Pull Injection System |
| 21 | David Airey - Model Tests of Rolling Dynamic Compaction |
| 22 | Mukul Chandra Bora and Sujit Kumar Dash - Load Deformation Behaviour of Encased Stone Columns in Soft Clay |

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| 23 | Lee Eng Choy, Shakor Mamat bin A Badaruddin and Rusiru Dalugoda - A Case Study of Dynamic Consolidation of Soft Soils |
| 24 | Sanjive Narendranathan, Shakor Mamat bin A Badaruddin, Lee Eng Choy and Nick Lowe - Some Aspects of Rapid Ground Investigation and Ground Improvement for Development on Mangrove Swamp Lands |
| 25 | Sridhar Valluri and Deepak Raj - Ground Improvement Using Vibro Replacement Technique to Support Buildings on Deep Soft Marine Clay Deposit on the West Coast of India |
| 26 | Dave T. N., Nagi V. N., Shukla A. V. and Kumawat C. D. - Settlement and Moisture Variation for Jute Vertical Drain |

| SESSION: SHALLOW AND DEEP FOUNDATIONS | |
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| 1 | Shunsuke Moriyasu, Hidetaka Meguro, Tatsunori Matsumoto, Shun-ichi Kobayashi and Shinya Shimono - Influence of Surging and Jack-in Pile Installation Methods on Pile Performance Observed in Model Load Tests in Dry Sand Grounds |
| 2 | Kam W. Ng and Todd A. Sullivan - Demonstrating Challenges of Driven Piles in Rock using Two Case Studies in Wyoming, USA |
| 3 | Kam W. Ng, Don Green, Kenneth F. Dunker, Sri Sritharan and Michael Nop - LRFD Design Guides for Driven Piles Considering Pile Setup Phenomenon |
| 4 | K.H. Law - Effect of Anisotropic Wall Stiffness on Deep Excavation Behaviour |
| 5 | Tanatan Tikanta, Tatsunori Matsumoto, Shinya Shimono and Chakree Bamrungwong - Fundamental Experiments on Reinforcement of Bridge Pile Foundations Subjected to Pile Embedment Length Reduction due to Riverbed Excavation |
| 6 | Vu Anh Tuan, Ryo Yoshitani, Tatsunori Matsumoto, Shinya Shimono & Nguyen Tuong Lai - Effects of Batter Piles on The Performance of Pile Group And Piled Raft Foundations in Dry Sand Model Ground |
| 7 | C.J. Kuo, Y.K. Lin, C.L. Hung, W.F. Lee and S.S. Lin - A Case Study on Deep Excavation in Existing Underground Structure of Three-Story Basement and Diaphragm Wall |
| 8 | Ambarish Ghosh and Rituparna Dey - Study on the Behaviour of Pile-Raft Foundation in Cohesive Soil |
| 9 | J. Hamada, K. Yamashita and K. Hirakwa - Case History of Behavior of Piled Raft Foundation Supporting the Tallest Building in Japan Constructed by Top-Down Method |
| 10 | K. Yamashita, S. Wakai and J. Hamada - Comparison of Load-Settlement Behavior of Piles Derived from Load Testing and Field Measurements of Piled Raft |
| 11 | Sareesh Chandrawanshi and Rakesh Kumar - Bearing Capacity Improvement of Soft Soils upon the Application of Confined Footings |
| 12 | Koji Watanabe - Development of Construction Method for Steel Pipe Piles Combined with Ground Development for Narrow Spaces |
| 13 | T. A. Ooi, Y. G. Tan and V. W. Pong - Challenges of a Mixed Development in a Cavernous Limestone Formation in Congested Urban Region of Kuala Lumpur |
| 14 | Mustafa Serdar NALÇAKAN - Effects of Jet Grouting on the Passive Pressure of Soils |
| 15 | Chee-Leong Low, See-Sew Gue and Chiew-Ling Tei - Alternative Foundation Design using Passive Sheet Pile Wall for New Hang Tuah Vehicular Bridge In Malacca |
| 16 | Zaiton Zainal Badri, Syed Baharom Azahar Syed Osman and Indra Sati Hamonangan Harahap - Screw Pile and Its Application |
| 17 | T. A. Ooi, Y. G. Tan and V. W. Pong - Challenges of Damansara Town Centre Redevelopment |
| 18 | C.J. Wong and S.S. Liew - Local Construction Practice and Geotechnical Performance of Rock Socketed Bored Pile in Sedimentary Crocker Range Formation in Sabah |
| 19 | Rajendra Singh Bisht and A. Juneja - Load Transfer Mechanism in Piled Raft Foundation |

| SESSION: EXCAVATIONS AND RETAINING STRUCTURES | |
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| No. | Author(s) - Paper Title |
| 1 | Chong E.E.M and Ong D.E.L. - Effect of Wall Permeability on Groundwater Table in a Deep Excavation Project |

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| 2 | Gerardo Agustin Pittaro and Candy Tang - 3D and 2D FEM Study of Deep Excavations with Ground Improvement using Cross Walls |
| 3 | L. H. Ooi and P. Ha - The Challenges of Deep Excavation Works in Kuala Lumpur Karsts |
| 4 | Sanku Konai, Subha Sankar Chowdhury, Aniruddha Sengupta and Kousik Deb - Effect of Width of Excavation on Soil Pressure Acting on Strutted Retaining Walls under Seismic Condition |
| 5 | Chepurthy Veeresh, Tiang Kai Ling and Goh Kok Hun - Back Analysis of Deep Excavation in Singapore Old Alluvium |
| 6 | Chao, Hsiao-Chou and Yang, Sheng-Huei - Retrospective Study on the Risk Management for a Deep Excavation in the Proximity of Two Running MRT Bored Tunnels |
| 7 | Loh Yee-Eng, Ng Tiong-Guan and Indrayogan Yogarajah - Design and Construction Considerations for Large Diameter Cofferdam of Common Services Tunnel in Marina Bay, Singapore |
| 8 | Rahardjo, P.P. and Handoko, A - The Unwanted Effect of Dewatering in Excavation Work and Their Countermeasures |
| 9 | John Michael B. Gargullo, Jose Carlo Eric L. Santos, Roy Anthony C. Luna and Mark Albert H. Zarco - Design Considerations for Deep Excavations in Metro Manila |
| 10 | Cheah Frankie, Mak W.K. and Law K.H. - Design Challenges in 33m Deep Excavation Work in Congested Urban Site in Kuala Lumpur |
| 11 | Lee Kuok Wei, Mohd Sukarno Ahmad Syazwan and Law K.H. - Design Challenges for a 23m Deep Underground Basement Built on Existing Building Footprints in Kuala Lumpur |
| 12 | Simon Low Yew Hup, Chin Yow Uui, Victor Ong Chee Wee and David Ng Chew Chiat - Design and Construction Challenges of Earth Retaining System for Drainage and Canal Upgrading Projects in Different Ground Conditions in Singapore |
| 13 | Ng Pin Yuan, Neo Chee Wei, Victor Ong Chee Wee and David Ng Chew Chiat - Cost-effective Strutting Design for Earth Retaining Systems in Basement Construction - Case Histories from Singapore Projects |
| 14 | Neo Chee Wei, Chin Yow Uui, Ong Chee Wee Victor and Ng Chew Chiat David - Design and Construction Challenges of Sewers Projects with Shaft Construction and Pipe Jacking Works in Different Ground Conditions in Singapore |
| 15 | Yung-Show Fang, Yi-Chang Li and Cheng Liu - JSG Ground Improvement for the Renewal of an Existing Excavation |
| 16 | Seng Ray, Hsiung B. C. B., Tsai Y. Y. and Wang C. L. - Lessons Learned from Underground Metro Rail Projects in Taiwan |
| 17 | Ted Tse - Using Hoek-Brown Failure Criterion Parameters to Optimize the Design of Excavation and Lateral Support in Rock |
| 18 | Shaw-Shong Liew, Kuan-Seng Koo, Fong-Wah Chee and Chiong-Ngu Tiong - Movements of a Suspected Colluvium Deposit Investigation of Creeping Slope |
| 19 | J.T. Chin - A Retaining Wall Failure in Malaysian Soft Coastal Marine Clay |
| 20 | Chang-Yu Ou, Pio-Go Hsieh and Shao-Chi Chien - Evaluation of Three Different Measures in Reducing the Movements in Deep Excavations |
| 21 | Jiang Shuihua, Yao Chi and Yang Jianhua - Reliability Analysis of Excavated Slopes Considering Corrosion Effect of Pre-Stressed Cables |
| 22 | Chong Yong Ong, Kok Keong Choong and Mohd Ashraf Mohamad Ismail - Construction of Underground Containment Structure Using Precast Concrete Sheet Pile |
| 23 | Kweishr Li, M.H. Lin and C.S. Chang - Push in Anchor Caisson Shaft in Urban |
| 24 | Chandrasegaran Sundararaju and Tamilmani Thiruvengadam - Case Study of Construction of Diaphragm Wall with and without Ground Improvement in Soft Marine Clay |

| SESSION: SOIL CHARACTERIZATION AND PROPERTIES | |
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| 1 | A. Nurul Huda, M.J. Md. Noor and I.B. Mohamed Jais - Relationship between Shear Strength and Suction of Granitic Residual Soil |

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| 2 | I. B. Mohamed Jais and M. J. Md. Noor - Collapse Settlement of Partially Saturated Soil: A Comprehensive Review of Effective Stress and Shear Strength Interaction of Soil |
| 3 | Tsuyoshi Tanaka, Naoaki Suemasa and Shinichi Yamato - Assessment of Soil Characteristics by Screw Driving Sounding |
| 4 | Phangkawira F., Ong D.E.L. and Choo C.S. - Characterisation of Highly Fractured Rock Mass Using Pressuremeter Test in a Pipe-jacking Project |
| 5 | Peerun M.I., Ong D.E.L. and Choo C.S. - Effect of Particle Shapes on Shear Strength During Direct Shear Testing Using GeoPIV Technology |
| 6 | Leong H.Y. and Ong D.E.L. - Strength Characteristics of Geopolymer Made Using Sarawak Fly Ash |
| 7 | Y. Tanaka, L. M. Lee and Kalai Arasu - Efficient Saturation Procedure of Triaxial Undrained Test for Residual Soil |
| 8 | Pongpipat Anantanasakul and Roth Chanraksmey - Modeling Stress-Strain and Strength Characteristics of Silt-Clay Transition Soils Using Elastoplastic Models for Clay |
| 9 | Felix N. L. Ling, Khairul Anuar Kassim, Ahmad Tarmizi Abdul Karim and I. T. Teong - Subsurface Profiling of Tropical Peat Soil (Case Studies: Sibul, Sarawak, Malaysia) |
| 10 | H. W. Xiao and F. H. Lee - Tensile Strength of Fibre-reinforced High Cement-treated Clay |
| 11 | Hijiri Hashimoto, Toshihiro Hayashi and Hirochika Hayashi - Long-Term Strength Characteristics of the Cement Treated Soil after 30 Years |
| 12 | Peir-Tien Lee, Yean-Chin Tan and Boon-Lin Lim - Some Geotechnical Design Parameters for Soft Clay in Tokai, Kedah, Malaysia |
| 13 | M. M. S. Hlaing and K. S. Wong - One Dimensional Consolidation Behavior of Peat Improved by Electro-Osmosis |
| 14 | Senian N., Omoregie A.I., Ong D.E.L., Ngu L.H., Nissom P.M. and Ginjom I.R.H. - Performance of Microbially Induced Calcite Precipitation by Local Indigenous Bacteria Consortia and Sporosarcina Pasteurii |
| 15 | Nor Zurairahetty Mohd Yunus, Dariusz Wanatowski, Rod Stace and Aminaton Marto - Effect of Drainage Conditions on Lime-Stabilized Organic Clay with Sodium Chloride |
| 16 | Raghvendra Sahu, R. Ayothiraman and G. V. Ramana - Shear Strength Behavior of Sand Reinforced with Human Hair Fiber |
| 17 | Janardhan Tahasildar and B. Hanumantha Rao - Measurement of Zeta Potential Value of Some Indian Expansive Soils |
| 18 | Rashed M.A., Sediek K.N., Nazir A.K. and Mohsen S.A. - Consolidation Characteristics of the Upper Part of Nile Delta Deposits of Behira and Gharbia Governorates, Egypt |

| SESSION: TC211 – GROUND IMPROVEMENT | |
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| No. | Author(s) - Paper Title |
| 1 | Sanjay Nimbalkar and Buddhima Indraratna - Optimum Use of Flexible Geo-Inclusions for Enhancing the Performance of Granular Embankments |
| 2 | A. Heitor, Chazath I. Kaliboullah, B. Indraratna and C. Rujikiatkamjorn - Stress-Dilatancy Behaviour of Compacted Coalwash as a Landfill Option |
| 3 | Cholachat Rujikiatkamjorn, Udeshini Pathirage and Buddhima Indraratna - Soft Soil Stabilization through Native Vegetation along Rail Corridors |
| 4 | Farshed F. Zekhniev - Engineering Control of Saturated Soft Soil Consolidation |
| 5 | Babak Hamidi and Serge Varaksin - Ground Improvement for Tanks |
| 6 | G. Lancellotta, V. Pastore, G. Tonoli, Luiz Guilherme de Mello, Gilberto G. Gomes, Rodolfo Aradas and Joseph Sopko - Artificial Ground Freezing to Remediate the Construction of a Shaft of a Water Supply System in Buenos Aires, Argentina |
| 7 | Buddhima Indraratna, Cholachat Rujikiatkamjorn and Rui Zhong - Recent Advancement of Vacuum Pressure Application for Soft Soil Consolidation |

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| 8 | Massimo Grisolia, Ignazio Paolo Marzano, Giuseppe Iorio, Giuseppe Panetta, Ferruccio Cribari and Ferruccio Cribari - A Ground Improvement Treatment for the Realization of Raise Bored Shafts in the Historical Center of a Central Italy's City |
| 9 | Kenny Yee and Serge Varaksin - Deep Compaction in Sand with High Carbonate Content and Its Measurements |
| 10 | Jérôme Racinais, Benjamin Thomas and Richard Ong - 20 Years of CMC Successful Application |

| SESSION: TC217 – LAND RECLAMATION | |
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| No. | Author(s) - Paper Title |
| 1 | Yoichi Watabe, Yoshiaki Kikuchi and Hiroshi Shinsha - Long-Term Properties of Air-Foam Treated Lightweight Soil Cured in Seawater |
| 2 | Ng Z., Ameratunga J. and Dissanayake K. - Port of Brisbane (PoB) Clay Characteristics and Correlations |
| 3 | Chafale A.S. and Juneja A. - Swelling of Pre-Consolidated Double Porous Clay Fills |
| 4 | Andi KS. Kartawiria and Masyhur Irsyam - Jakarta Land Subsidence and Alternative Counter Measures |
| 5 | Marwan Alzaylaie and Aly Abdelaziz - Impact of Various Assessment Procedures on Liquefaction Potential in Reclaimed Soil in Pearl Jumeira Dubai, UAE |
| 6 | Hanlong Liu - Chinese Technical Code for Ground Improvement for Land Reclaimed using Hydraulic Fills: An Introduction |
| 7 | J Ameratunga, N Honeyfield, K Dissanayake and Z Ng - Port of Brisbane – Reclamation Using Dredged Mud and Ground Improvement |

| SESSION: TUNNELLING AND UNDERGROUND SPACE DEVELOPMENT | |
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| No. | Author(s) - Paper Title |
| 1 | Weng Liwei, Poh David, Ishii Hiroaki and Lim Kok Hwee - Face Stability of Large Diameter NATM Tunnel in Soil in Singapore |
| 2 | John Endicott - Control of Inflow of Groundwater into Deep Shafts and Tunnels |
| 3 | Daijiro Tanaka, Tatsunori Matsumoto, Tatsuhiko Otani, Kyoichi Sato, Katsuhiko Kawamoto and Shun-ichi Kobayashi - Measurements and FEM Analyses of Influence of a Newly Constructed NATM Tunnel to the Neighbouring Tunnel |
| 4 | Dazhi Wen - Development of Reinforced Concrete Segmental Tunnel Linings for Bored Tunnels for Singapore MRT System |
| 5 | L. H. Ooi and P. Ha - The Challenges of Tunnelling Works in Kuala Lumpur Karsts |
| 6 | Jinnie Oh and Vipul Kumar - Development of Numerical Models to Predict Settlement Caused due to Tunnelling in Soft Ground |
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