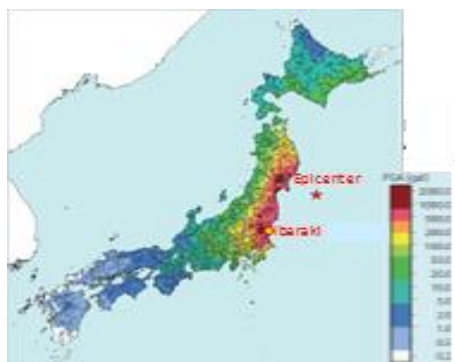
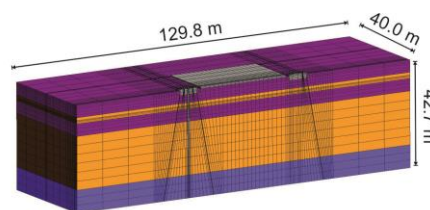


(a) Ground subsidence along building

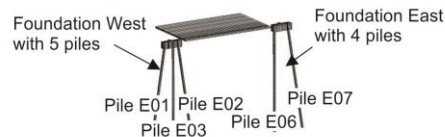


(b) PGA map derived from strong motion records (Kunugi et al., 2012)

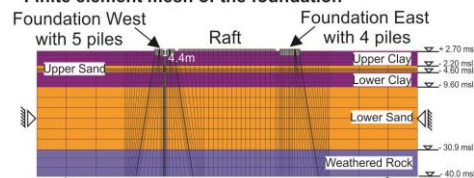
Piled Raft Foundation subjected to Strong Seismic Motion (After K. Yamashita et al, 2014)



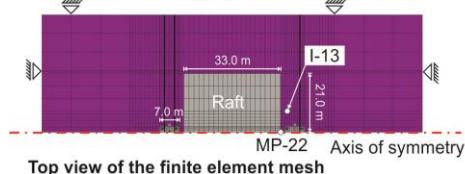
Finite element mesh of the complete system



Finite element mesh of the foundation



Cross section through the finite element mesh



Top view of the finite element mesh

Numerical study on pile groups subjected to lateral soil movements (After O. Reul et al, 2014)

## What's inside

**4** SEAGS-AGSSEA News

**7** **Country Events:** Malaysia, Indonesia, Thailand, Singapore, Taiwan, Vietnam, Hong Kong, ISSMGE, Asia

**27** **Why join SEAGS, AGSSEA, ISSMGE**

**27** **Conferences in Asia**

**30** **Conferences outside Asia**

**31** **Journal of Geotechnical Engineering**

**40** **Membership List**

**41** **Donors List**

**41** **Interesting Websites**

**44** **Proceedings, Books & Journals**

**47** **Subscription / Payment Forms & Others**

**51** **Journal Paper Submission / Information**

## Editors

**Dr. Noppadol Phienwej**  
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**Ir. Kenny Yee**  
AGSSEA Hon. Secretary General

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| 15. | <b>Prof. D.T. Bergado</b>         | Thailand                    |
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| 17. | <b>Ir. Yew Weng Yee</b>           | Malaysia (Co-opted Member)  |
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| 19. | <b>Prof. Mei-Ling Lin</b>         | Taiwan (Co-opted Member)    |
| 20. | <b>Prof. Der-Wen Chang</b>        | Taiwan (Co-opted Member)    |

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	<b>(To be advised)</b>	HKGES
	<b>(To be advised)</b>	HKGES
	<b>Dr. Tiong Guan Ng</b>	President, GeoSS
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## SEAGS/AGSSEA E-JOURNAL

### PREAMBLE

This August 2014 issue of the SEAGS-AGSSEA Newsletter brings you more news on the E-Newsletter of the SEAGS & AGSSEA. The E-Journal has made tremendous progress since 2010 and the issues are published ahead of time. The March, June and September 2014 issues were all posted on the website well ahead of schedule. Thanks to the Guest Editors, the Authors, the Editor-in-Chief and all the supporting staff for their effort. The password system has introduced controlled access to the E-Journal papers. The SEAGS secretariat at AIT has been working very hard to give the rightful users their passwords. We have papers for publication until 2017. Thanks are due the guest editors, reviewers and the authors of papers for their dedication and supports. The persistent and untiring effort of Prof A S Balasubramaniam has made these changes possible. The SEAGS-AGSSEA Journal is EI and SCI indexed.

### **March 2014: Geotechnics For Advancing Transport Infrastructure** **Editors: Prof. Buddhima Indraratna & Dr. Chalachat Rujikiatkamjorn**

#### List of Papers

Geosynthetic-Reinforced Soil Structures for Railways: Twenty Five Year Experiences in Japan  
*by F. Tatsuoka, M. Tateyama, J. Koseki and Yonezawa, T.*

Enhancement of Rail Track Performance through Utilisation of Geosynthetic Inclusions  
*by Buddhima Indraratna, Sanjay Nimbalkar, and Chalachat Rujikiatkamjorn*

Railway Track Transition Dynamics and Reinforcement Using Polyurethane GeoComposites  
*by P. Woodward, O. Laghrouche and A. El-Kacimi*

How to Overcome Geotechnical Challenges in Implementing High Speed Rail Systems in Australia  
*by H. Khabbaz and B. Fatahi*

Maintenance Model for Railway Substructure  
*by Ali Ebrahimi, James M. Tinjum, and Tuncer B. Edil*

Dynamic Behaviour of Railway Ballasted Track Structures in Shaking Table Tests and Seismic Resistant Performance Evaluation in Japan  
*by T. Ishikawa, S. Miura and E. Sekine*

Mechanical Properties of Polyurethane-Stabilized Ballast  
*by A. Keene, J.M. Tinjum, and T.B. Edil*

Dependency of Cyclic Plastic Deformation Characteristics of Unsaturated Recycled Base Course Material on Principal Stress Axis Rotation  
*by A. Inam, T. Ishikawa, and S. Miura*

Quickness Test Approach for Assessment of Flow Slide Potentials  
*by V. Thakur and S. A. Degago*

Cement Stabilization for Pavement Material in Thailand  
*by S. Horpibulsuk, A. Chinkulkijniwat, A. Suddepong, and A. Neramitkornburee*

Stone Columns Field Test: Monitoring Data and Numerical Analyses  
*by Marcio Almeida, Bruno Lima, Mario Riccio, Holger Jud, Maria Cascão, Felipe Roza*

Technical Note:

Numerical Analysis of Response of Geocell Confined Flexible Pavement  
*by G. L Sivakumar Babu and Ram Babu*

## **June 2014: Special Issue On Deep Foundation**

**Editors: Tatsunori Matsumoto, Jurgen Grabe & Der Wen Chang**

### List of Papers

Numerical Investigation of Passive Loads on Piles in Soft Soils

*by C. Moormann and J. Aschrafi*

Numerical Simulation of an Energy Pile Using Thermo-Hydro-Mechanical Coupling and a Visco-Hypoplastic Model

*by Xiaolong Ma, Gang Qiu, Jürgen Grabe*

Numerical Studies on Dynamic Load Testing of an Open-ended Pipe Pile and a Case Study

*by L. Phan Ta, T. Matsumoto and H. Nguyen Hoang*

Performance of Piled Raft Foundation Subjected to Strong Seismic Motion

*by K. Yamashita, T. Hashiba, H. Ito and T. Tanikaw*

Static Cyclic Load Tests on Model Foundations in Dry Sand

*by Y.S. Unsever, T. Matsumoto, S. Shimono and M.Y. Özkan*

Axial Bearing Behaviour of a Model Pile in Sand Under Multiple Static Cycles

*by J. H. Hwang, Z. X. Fu, P. Y. Yeh, D. W. Chang*

Seismic PBD of Piles from Monte Carlo Simulation Using EQWEAP Analysis with Weighted Intensities

*by D.W. Chang, Y.H. Lin, H.C. Chao, S.C. Chu and C.H. Liu*

Case Studies on Response of Laterally Loaded Nonlinear Piles

*by Wei Dong Guo*

Numerical Analysis of the Effect of Pile Tip Shape on Soil Behaviour around Pile

*by Y. Wu and H. Yamamoto*

Shaking Table Test on Superstructure-foundation-Ground System in Liquefiable Soil and Its Numerical Verification

*by F. Zhang, R. Oka, Y. Morikawa, Y. Mitsui, T. Osada, M. Kato and Y. Wabi*

Model loading tests on bearing behaviour of a group pile and ground deformation in sand

*by S. Aoyama B. Liu L. Danardi W. Mao S. Goto and I. Towhata*

Numerical study on the bearing behaviour of pile groups subjected to lateral pressure due to soil movements

*by O. Reul, J. Bauer and C. Niemann*

Deep foundation systems for high-rise buildings in difficult soil conditions

*by R. Katzenbach and S. Leppla*

## **September 2014: Special Issue On Centrifuge Modelling Of Geotechnical Infrastructure & Contributed Papers**

**Editors: B.V.S. Viswanadham, Hanh Quang Le & Ooi Teik Aun**

### List of Papers

Centrifuge Modelling of Improved Ground

*by M. Kitazume, Y. Morikawa and S. Nishimura*

Simulation of Soil Movement in Geotechnical Centrifuge Testing – Deep Excavations, Tunnelling, Deposit

*by D. König, O. Detert and T. Schanz*

Run-out of Sensitive Clay Debris: Significance of the Flow Behavior of Sensitive Clays

*by V. Thakur and D. Nigussie*

Verification of the Generalized Scaling Law for Flat Layered Sand Deposit

*by T. Tobita, S. Escoffier, J. L. Chazelas and S. Iai*

Performance of Rail Embankments Constructed with Coal Ash as a Structural Fill Material: Centrifuge Study

*by B.V.S. Viswanadham and V.K. Mathur*

## Field Scale Tests for Determination of Pullout Capacity of Suction Pile Anchors Under Varying Loading Conditions

by *Vijaya Ravichandran, R. Ramesh, S. Muthukrishna Babu, G.A. Ramadass, .M.V.Ramanamoorthy and M.A. Atmanand*

## A Novel Mobile Information System for Risk Management of Adjacent Buildings in Urban Underground Construction

by *Hanh Quang Le and Bin-Chen Benson Hsiung*

## Comparison Between Design Methods Applied to Segmental Tunnel Linings

by *N.A. Do, D. Dias, P.P. Oreste, I. Djeran-Maigre*

## Challenging Construction Projects Related to Urban Tunnels

by *R. Katzenbach and S. Leppla*

## Bulk Compression of Dredged Soils by Vacuum Consolidation Method Using Horizontal Drains

by *Hiroshi Shinsha and Takahiro Kumagai*

## Mechanical Behavior of Energy Piles in Dry Sand

by *A.M. Tang, J.M. Pereira, G. Hassen, N. Yavari*

## Estimating Side Resistance of Bored Pile in Residual Soils

by *Mutiasani Dianmarti Kusuma and Eng-Choon Leong*

## Seismic Response of Geosynthetic Reinforced Earth Embankment by Centrifuge Shaking Table Tests

by *W.Y. Hung, J.H. Hwang, C.J. Lee*

### **E-Journal GUEST EDITORS**

We acknowledge with thanks the following guest editors for the respective issue of the journal:

Prof. Jie Han (March 2011)

Prof. Akira Murakami (June 2013)

Dr. Dariusz Wanatowski

Prof. Tatsunori Matsumoto (June 2011)

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Prof. Jinchun Chai (December 2013)

Prof. Shuiling Shen

Prof. Charles W W Ng (March 2012)

Dr. Apiniti Jotisankasa

Prof. Buddhima Indraratna (March 2014)

Dr. Chalachat Rujikiatkamjorn

Prof. Ikuo Towhata (June 2012)

Prof. Der Wen Chang

Prof. Tatsunori Matsumoto (June 2014)

Prof. Jurgen Grabe & Prof Der Wen Chang

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Tom Lunne (December 2012)

Prof. Don de Groot

Prof. Der-Wen Chang (March 2013)

Dr. Dariusz Wanatowski

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### CAMBODIA

#### President SEAGS Visits Cambodia in August 2014

In November 2013, Dr. Lim Soktay Dean of College of Sciences at Norton University Phnom Penh Cambodia suggested that SEAGS organize a Design Course on Foundation Engineering. I agreed to the suggestion and started talking to various people in the industry. SEAGS has conducted touring lectures in Countries like Cambodia, Myanmar, Philippines, Thailand and Vietnam. The lecturers who took part in the touring lectures were Prof. Seco e Pinto, Prof. Dennes Bergado, Prof. Jean Louis Briaud, Prof. Charles Ng, Prof. SS Lin, I and others.

The Cambodia lecture as proposed by Dr. Lim Soktay was different in that firstly it has to be financially supported. The original proposal was for participants of 100.

I was fortunate to have generous friends in the industry like Ir. Yee Yew Weng of Keller Asia who readily agreed to sponsor such event though Keller has no business interest in Cambodia.

The one day seminar on “Practical Design and Construction of Ground Improvements, Deep Excavation and Foundation” was held on 8<sup>th</sup> August 2014 at the Sunflower Ballroom of Himawari Hotel, Phnom Penh, CAMBODIA with a record turnout of 212 participants. The event was jointly organized by Norton University, Association of Geotechnical Societies in Southeast Asia (AGSSEA) and Southeast Asian Geotechnical Society (SEAGS) and supported by Keller Asia. Figure 1 shows the group photograph of the organizing committee and Figure 2 shows part view of the participants.

The lectures given at the one day seminar were 1. “Innovative Foundation Design and Ground Improvement in Hong Kong” by Mr. Jason Simpson of Ove Arup; 2. “Ground Improvements Using Deep Vibration Technique” by Dr. Leong Kam Weng of Keller Singapore; 3. “Deep Cement Mixing: Soft Soil Stabilization for Structural Support” by Ir. Yee Yew Weng Asean Regional Director of Keller Asia; 4. “Resolving Dispute in Engineering Contracts Through Dispute Resolution” by Ir. Leon Weng Seng of Jurunding Majuchipta Sdn Bhd, Malaysia and “Foundation Failures” by Ir. Dr. Ooi Teik Aun, President of SEAGS.



Figure 1 Group photos of Organizing Committee



Figure 2 Part view of participants



Figure 3 Ir. Dr. Ooi Teik Aun delivering his Welcome Speech

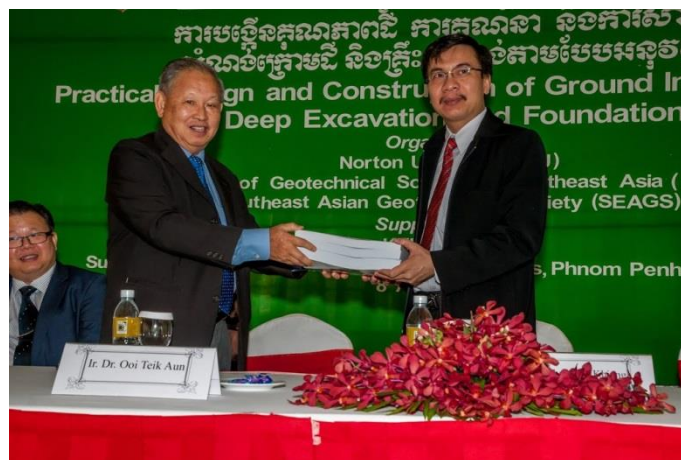


Figure 4 Ir. Dr. Ooi Teik Aun presenting SEAGS Journal to Prof. Chan Sok Khieng, Rector, Norton University



## **Report by Ir. Yee Yew Weng, MGS Secretary-General**

### **2<sup>nd</sup> AGM**

The Malaysian Geotechnical Society (MGS) convened their 2<sup>nd</sup> AGM on 5th July 2014 in Kuala Lumpur. Ir. Dr. Ting Wen Hui, Ir. Dr. Chan Sin Fatt, Ir. Yee Yew Weng and Ir. Dr. Chan Swee Huat were re-elected as the Chairman, Deputy Chairman, Secretary-General and Hon. Treasurer respectively for another term.

### **Seminar on “Soil-Structure Interaction in Geotechnical Design”**

Over 90 Engineers from the Geotechnical Field took time away from their routine work on 27th of March 2014, to take part in a seminar at Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM. “Soil-Structure Interaction in Geotechnical Design” was the first seminar jointly organized by the newly established Malaysian Geotechnical Society (MGS) and The Geotechnical Engineering Technical Division of The Institution of Engineers, Malaysia (GETD IEM). This particular topic was chosen as engineers are exposed to more complex infrastructure development especially in urban setting, where both Geotechnical and Structural Engineers have to understand the principals of soil and structural design and how they interact with each other.

Prof. Charles Ng W.W. from Hong Kong University of Science and Technology was one of the speakers for the short course. He inspired the participating Engineers with results from series of three-dimensional centrifuge model tests and numerical simulations carried out to investigate the effects of twin tunnel construction on existing single pile & pile group. He also presented responses of perpendicularly crossing two-tunnel interaction and the effects of shielding on three-tunnel interaction. He demonstrated that university research can have very practical application in real construction.

The other speaker was Prof. Leung C.F. from National University of Singapore and he shared on the phenomena and causes of negative skin friction. He highlighted research findings on single piles and pile groups subject to negative skin friction using centrifuge modelling technique. Besides, he also presented research studies to examine the effects of excavation on adjacent single piles and pile groups in sand and in soft clay.



Photo taken during lecture by Prof. Charles Ng



Photo taken during question & discussion

During the question & discussion session, there were lively questions from the floor on application of the research findings to real construction problems. The seminar ended at 5.00pm with memento presentation to both speakers and a big round of applause from the participants.

## **GETD AGM Lecture on “Landslide Debris and Baffles – The Interaction Mechanisms and Case Histories”**

On 14<sup>th</sup> of June 2014 Prof. Charles Ng delivered the lecture on “Landslide Debris and Baffles – The Interaction Mechanisms and Case Histories” This lecture was well attended by more than 100 participants including ICE Student Members from the University of Nottingham Malaysia Campus (UNMC). The lecture started at 9am and ended at 11am with active participation from the floor. The IEM GETD AGM that followed after the lecture elected the new committee with Ir Yee Thien Seng as the New Chairman.



Photo shows the packed Prof. Chin Fung Kee Auditorium



Prof. Charles Ng delivering his lecture on “Landslide Debris Flow and Baffles”



## **MALAYSIA CHAPTER OF IGS (MyIGS) INAUGURAL AGM**

Report by: Professor Dr. Fauziah Ahmad, President of MyIGS



MyIGS members at the Inaugural AGM

**Wednesday, 28 May 2014, Kuala Lumpur, Malaysia.** The MyIGS' inaugural AGM cum membership drive was a success as it brought together for the first time the Malaysian geosynthetics community with members of more than 30 year experience right down to graduate students. The inaugural meeting was attended by representative from 3 corporate members, 3 company members, 36 individual members, 3 student members and 1 affiliate. The members' professional background is a healthy mix of Academicians, Consultants, Contractors, Manufacturers, Installers and Distributors. MyIGS has its office at the Engineering Campus of Universiti Sains Malaysia (USM), Nibong Tebal, Penang.

### **The officers of MyIGS:**



**President**  
Prof. Dr. Fauziah  
Ahmad



**Vice - President**  
Ragunathan A/L  
Palanisamy



**Treasurer**  
Richard Ong



**Secretary**  
Daniel Tan Su Ming

### **Elected Executive Members:**

Marcus Jong Ching Joo, Danny Ng, Edward Thanarajah, Dr. Chan Chee-Ming, Jason Lim Kian Huat, Tee Choon Heng, I. Senthilrajah, Chung Chee Wai, Lim Yu Jeen, Ang Cheng Hooi, Daniel Duffy, Bryan Lee

## **INTERNATIONAL CONFERENCE & EXHIBITION ON TUNNELLING AND UNDERGROUND SPACE 2015 (ICETUS2015), KUALA LUMPUR, 3-5 MARCH 2015**

Tunnelling & Underground Space Technical Division of The Institution of Engineers, Malaysia (IEM TUSTD) is organizing the third conference on 3rd – 5th March 2015. This coincides with the massive development of the Klang Valley Mass Rapid Transit (KVMRT) currently at advance stage of construction and expected to be in completion in 2015. The conference is ITA endorsed event. In conjunction there is a 2 day short course conducted by ITACET using in house experts who are also attending the ITA Executive Committee meeting in Kuala Lumpur.

This conference is aimed at providing a forum for practicing professionals – engineers, consultants, contractors, technologists, researchers, academicians, manufacturers and suppliers to share their experiences, research, studies and views so as to contribute to the advancement of Sustainable Tunnelling and Trenchless Technology in general and particularly in Asia. A wide range of high quality scientific and technical papers of International or Regional significance on Tunnelling and Trenchless Technology is expected on the following topics:

- ▶ Tunnelling to include process, operation, ventilation and maintenance.
- ▶ Trenchless Technology such as micro-tunnelling, pipe jacking, directional drilling and rehabilitation.
- ▶ Related areas such as detection, inspection services, robotic development, sewer, services and structural aspects.
- ▶ Safety health environmental quality and legal aspects.
- ▶ Machine development and designs, latest models presentation from manufacturers of tunnelling and related machines.
- ▶ Geotechnical aspects with particular references to tunnelling and trenchless technology.
- ▶ Research and recent development and progress related to tunnelling & trenchless technology.

A Special Session will be dedicated to the Klang Valley Mass Rapid Transit (KVMRT) Project. The KVMRT project involves the construction of a rail-based public transport network which, together with the existing light rail transit (LRT), monorail, KTM Komuter, ERL and KLIA Transit systems forms the backbone of the Greater Kuala Lumpur/Klang Valley region. A total of about 20 papers have been received for this special session. In addition the opening keynote lecture will be delivered by the ITA President Mr. Soren Degn Eskesen, three other keynote lectures respectively by ITA Treasurer Mr. Felix Amberg, NUS Prof. K.Y. Yong and ITA Executive Council Member Prof. Jenny Yan and special lectures respectively by Ir. Dr. Richard Pang of Hong Kong, Mr. Zaw Zaw Aye of Thailand, Mr. Alexander S. Mackay of Hong Kong, Mr. Leslie Pakianathan of Singapore, Mr. Satpal of KVMRT.

Conference Secretariat

International Conference & Exhibition on Tunnelling & Underground Space 2015 (ICETUS 2015)

c/o IEM Training Centre Sdn. Bhd.

No. 33-1A (1<sup>st</sup> 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: [icetus2015@iemtc.com](mailto:icetus2015@iemtc.com)



25 August 2014

- **TC204 ISSMGE International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground" - IS-Seoul 2014 (25-27 August),**

01 September 2014

- **International Symposium on Geomechanics from Micro to Macro (IS-Cambridge, TC105),**

09 September 2014

- **XV Danube-European Conference on Geotechnical Engineering,**
- **COBRAMSEG 2014,**

21 September 2014

- **10th International Conference on Geosynthetics - 10th ICG,**

15 October 2014

- **XIV Colombian Geotechnical Conference-XIVCGC and IV South American Young Geotechnical Engineers Conference -IVCSIGJ,**

10 November 2014

- **7th International Congress on Environmental Geotechnics,**

19 November 2014

- **XXVII National Meeting of Geotechnical Engineering,**

20 November 2014

- **Geohazards 2014 International Symposium on Geohazards: Science, Engineering and Management,**

26 November 2014

- **VIII Chilean Congress in Geotechnical Engineering,**

02 December 2014

- **7th International Conference on Scour and Erosion (ICSE-7),**

21 January 2015

- **Sixth International Geotechnical Symposium 2015,**

22 February 2015

- **ANZ Conference - The Changing Face of the Earth: Geomechanics & Human Influence. ,**

27 April 2015

- **XVI African Regional Conference on Soil Mechanics and Geotechnical Engineering - Innovative Geotechnics for Africa,**

01 May 2015

- **ISP7 - PRESSIO 2015,**

10 June 2015

- **ISFOG 2015,**

14 June 2015

- **3rd International Conference on the Flat Dilatometer DMT'15,**

13 September 2015

- **XVI European Conference on Soil Mechanics and Geotechnical Engineering (13-17 Sept),**

24 September 2015

- **Workshop on Volcanic Rocks & Soils,**

02 November 2015

- **6th International Conference on Earthquake Geotechnical Engineering,**

09 November 2015

- **The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering -New Innovations and Sustainability-,**

15 November 2015

- **XV Pan American Conference on Soil Mechanics and Geotechnical Engineering,**

25 May 2016

- **NGM 2016, The Nordic Geotechnical Meeting (25-28 May),**

04 September 2016

- **3rd ICTG International Conference on Transportation Geotechnics ,**

## **SINGAPORE**

### **GEOTECHNICAL SOCIETY OF SINGAPORE (GEOSS) EDUCATION TRIP TO KUALA LUMPUR ON 18<sup>TH</sup> & 19<sup>TH</sup> APRIL 2014**

**Report by Ir. Yee Yew Weng, Secretary-General, MGS**

GeoSS organized an education trip to Kuala Lumpur on 18th and 19th of April, supported and hosted by the Malaysian Geotechnical Society (MGS). Their objective for this trip is to cultivate good relationships and extend networking with Malaysian geotechnical counterparts; learn about contracting and consultancy practices; appreciate Malaysia ground condition and geotechnical equipment and technology; understand our regulator-industry players' relationship; and to explore business opportunities.

#### **Visit to KVMRT Site**

On 18th of April, GeoSS members visited the Klang Valley Mass Rapid Transit (KVMRT) Exhibition Centre located at Jalan Cochrane. The members attended a KVMRT underground construction briefing presented by MMC-Gamuda KVMRT tunnel team representatives and visited the Cochrane tunnel boring machine (TBM) launching shaft and station.



*Photos taken during visit to “KVMRT Exhibition Centre”*

## Session on Eurocode

Later on the same day, GeoSS held a sharing session on Eurocode 7 (EC7) with committee members from MGS and Geotechnical Engineering Technical Division of The Institution of Engineers and few invited guests. The main objective was to share about the development, policy, implementation and challenges of EC7 in Singapore and Malaysia.



*Photos taken during EC7 sharing session*



## Talk on “Development Challenges in Singapore MRT Projects”

Right after the sharing session, an evening talk on “Development Challenges in Singapore MRT Projects” was given by Dr. Ng Tiong Guan, President of GeoSS. It was jointly organized by MGS and GETD IEM. More than 100 Geotechnical Engineers attended the talk. This particular topic was chosen as there are common challenges in designing and constructing deep foundations, tunnels and underground structures for MRT system.

Dr. Ng explained to the participating engineers the relatively complex geological setting in Singapore and the challenges when tunnels or underground structures are to be constructed in close proximity to the existing building and structures (which is inevitable in this relatively built-up city-state). He also shared and discussed details of a recent case history involving excessive ground movement due to water ingress.

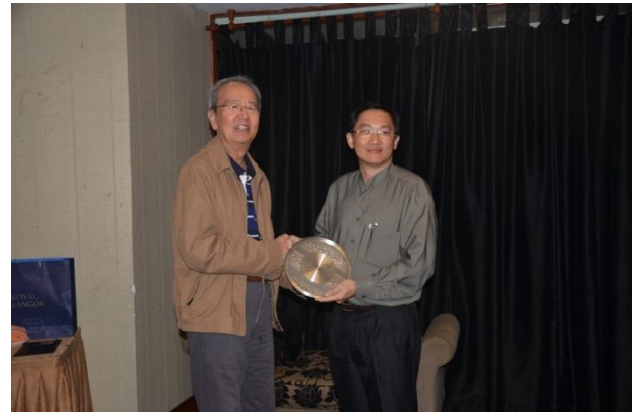


*Photos taken during evening talk by Dr. Ng*

A Welcome Dinner was held in the evening hosted by MGS at a nearby restaurant.



*Group photo of MGS and GeoSS Committee Members taken during Welcome Dinner*



*A symbolic friendship memento from MGS Chairman Ir. Dr. W H Ting to the President of GeoSS Dr. Tiong Guan*

## Highland Tower Site Visit

The next morning members of GeoSS visited the Highland Tower Site. In the December 1993 landslide incidence during one week of incessant rainfall Block A of the Highland Tower Collapsed resulting in 43 deaths and rendered Block B & C to be declared unsafe for occupation by the Kuala Lumpur City Hall. The site has since been abandoned and 15 years of court cases ensued. The court cases were reported in various Law Journals. The landslide incidence and court cases were discussed by Ir. Dr. Ooi Teik Aun in his 19<sup>th</sup> Professor Chin Fung Kee Memorial Lecture in 2009 and the paper published in the IEM Journal.



*Photos taken during stopped over at Highland Tower Site*



Subsequently, GeoSS members visited the IKEA job site at Jalan Cochrane, Kuala Lumpur. The main contractor presented the challenges faced and techniques they used in construction on challenging limestone formation, including down-the-hole hammer technology for constructing bored piles.



*Photos taken during IKEA site visit*

## CHINESE TAIPEI GEOTECHNICAL SOCIETY (CTGS)

### REPORT OF 2014 WORKSHOP ON PILE-RAFT AND PILE FOUNDATIONS – DESIGN, ANALYSIS AND TESTING HOSTED BY CHINESE TAIPEI GEOTECHNICAL SOCIETY

**Report by PROF. DER-WEN CHANG, INTERNATIONAL SECRETARY, CTGS**

On March 27 2014, a workshop supported by the Chinese Taipei Geotechnical Society (CTGS) on Pile-raft and Pile Foundations was held at Tamkang University (TKU) Taipei campus in Taiwan. The program was scheduled from 09:00 to 17:00. Seven lectures were delivered by three Taiwanese speakers (Prof. San-Shyan Lin at National Taiwan Ocean University, Prof. Der-Wen Chang at TKU, and Dr. Jiunn-Shyang Chiou at National Center for Research on Earthquake Engineering) and four Japanese speakers (Prof. Tatsunori Matsumoto and Prof. Shun-ichi Kobayashi from Kanazawa University, Dr. Kiyoshi Yamashita and Dr. Junji Hamada from Takenaka Corporation, Chiba). The lectures, each delivered by 45 minutes presentation plus 5 min discussions,

generally cover up the subjects on design, analysis and testing on pile-raft and pile foundations. Approximately 50 people including the professional engineers and graduate students attended the workshop. President of CTGS, Prof. Yung-Show Fang at National Chiao Tung University and Chairman of the Department of Civil Engineering at TKU, Prof. Jenmu Wang cordially gave the messages at opening and closing ceremonies. This event is very successful, and it is believed to have good impacts to the collaborations and knowledge sharing on the relevant issues between CTGS people and JGS delegates. The titles of the lectures are summarized as follows. Photos taken at the opening ceremony and during the workshop are attached.

1. Post-analysis of a piled raft foundation using pile load test results  
~ Prof. Tatsunori Matsumoto
2. Lateral interaction between cap and pile group  
~ Prof. San-Shyan Lin
3. Field monitoring of piled raft foundations in Japan  
~ Dr. Kiyoshi Yamashita
4. Analysis and assessment for displacement ductility capacity of a fixed head pile  
~ Dr. Jiunn-Shyang Chiou
5. Seismic observation and numerical simulation of piled raft foundations  
~ Dr. Junji Hamada
6. Rigid plastic analysis for pile foundations  
~ Prof. Shun-ichi Kobayashi
7. Seismic performance of piles using probability and reliability methods with EQWEAP analysis  
~ Prof. Der-Wen Chang



Group photo taken at the opening ceremony, front line from left to right:  
Mr. Shimono, Dr. Hamada, Prof. Kobayashi, Dr. Yamashita, Prof. YS Fang (President of CTGS),  
Prof. Tatsunori Matsumoto, Prof. Jenmu Wang (Chairman of TKUCE), Prof. DW Chang, and Dr. Chang



Appreciations to the lecturers by CTGS President, Prof. Yung-Show Fang,  
 Left side: Prof. Tatsunori Matsumoto, Right side: Prof. Der-Wen Chang



25 August 2014	<ul style="list-style-type: none"> <li>• <b>TC204 ISSMGE International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground" - IS-Seoul 2014 (25-27 August),</b></li> </ul>
01 September 2014	<ul style="list-style-type: none"> <li>• <b>International Symposium on Geomechanics from Micro to Macro (IS-Cambridge, TC105),</b></li> </ul>
09 September 2014	<ul style="list-style-type: none"> <li>• <b>XV Danube-European Conference on Geotechnical Engineering, COBRAMSEG 2014,</b></li> </ul>
21 September 2014	<ul style="list-style-type: none"> <li>• <b>10th International Conference on Geosynthetics - 10th ICG,</b></li> </ul>
15 October 2014	<ul style="list-style-type: none"> <li>• <b>XIV Colombian Geotechnical Conference-XIVCGC and IV South American Young Geotechnical Engineers Conference -IVCSIGJ,</b></li> </ul>
10 November 2014	<ul style="list-style-type: none"> <li>• <b>7th International Congress on Environmental Geotechnics,</b></li> </ul>
19 November 2014	<ul style="list-style-type: none"> <li>• <b>XXVII National Meeting of Geotechnical Engineering,</b></li> </ul>
20 November 2014	<ul style="list-style-type: none"> <li>• <b>Geohazards 2014 International Symposium on Geohazards: Science, Engineering and Management,</b></li> </ul>
26 November 2014	<ul style="list-style-type: none"> <li>• <b>VIII Chilean Congress in Geotechnical Engineering,</b></li> </ul>
02 December 2014	<ul style="list-style-type: none"> <li>• <b>7th International Conference on Scour and Erosion (ICSE-7),</b></li> </ul>
21 January 2015	<ul style="list-style-type: none"> <li>• <b>Sixth International Geotechnical Symposium 2015,</b></li> </ul>
22 February 2015	<ul style="list-style-type: none"> <li>• <b>ANZ Conference - The Changing Face of the Earth: Geomechanics &amp; Human Influence.</b></li> </ul>
27 April 2015	<ul style="list-style-type: none"> <li>• <b>XVI African Regional Conference on Soil Mechanics and Geotechnical Engineering - Innovative Geotechnics for Africa,</b></li> </ul>
01 May 2015	<ul style="list-style-type: none"> <li>• <b>ISP7 - PRESSIO 2015,</b></li> </ul>
10 June 2015	<ul style="list-style-type: none"> <li>• <b>ISFOG 2015,</b></li> </ul>
14 June 2015	<ul style="list-style-type: none"> <li>• <b>3rd International Conference on the Flat Dilatometer DMT'15,</b></li> </ul>
13 September 2015	<ul style="list-style-type: none"> <li>• <b>XVI European Conference on Soil Mechanics and Geotechnical Engineering (13-17 Sept),</b></li> </ul>
24 September 2015	<ul style="list-style-type: none"> <li>• <b>Workshop on Volcanic Rocks &amp; Soils,</b></li> </ul>
02 November 2015	<ul style="list-style-type: none"> <li>• <b>6th International Conference on Earthquake Geotechnical Engineering,</b></li> </ul>
09 November 2015	<ul style="list-style-type: none"> <li>• <b>The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering -New Innovations and Sustainability-,</b></li> </ul>
15 November 2015	<ul style="list-style-type: none"> <li>• <b>XV Pan American Conference on Soil Mechanics and Geotechnical Engineering,</b></li> </ul>
25 May 2016	<ul style="list-style-type: none"> <li>• <b>NGM 2016, The Nordic Geotechnical Meeting (25-28 May),</b></li> </ul>
04 September 2016	<ul style="list-style-type: none"> <li>• <b>3rd ICTG International Conference on Transportation Geotechnics ,</b></li> </ul>

**AGSSEA website:** <http://www.agssea.org/>

AGSSEA Website is hosted by **Professor Charles Ng** at Hong Kong University of Science and Technology, HKUST.

**Prof. Charles Ng and Dr Johnny Cheuk were recently elected as the President and Secretary-General of the Hong Kong Geotechnical Society (HKGES) respectively.**

Prof. Charles Ng has been appointed as the new Editor-in-Chief for the ISSMGE Bulletin since June 2014. Prof Charles Ng is also Chairman of the Awards Committee and Ir. Dr. Ooi Teik Aun is a Committee member.



President  
Ir Prof. Charles WW Ng  
Hong Kong University of Science  
and Technology



Assistant Secretary-General  
Dr Johnny Cheuk  
AECOM Asia Co. Limited



## **ISSMGE PRESIDENT'S REPORT**

**The message is included in the August 2014 ISSMGE Bulletin**

Vote of thanks to Professor Ikuo Towhata and his Editorial Board

Welcome to Professor Charles Ng and the new Editorial Board

Dear readers of the ISSMGE Bulletin,

I would like you to join me for an immense vote of thanks to Professor Ikuo Towhata who undertook the role of Editor-in-Chief of the ISSMGE Bulletin from the December 2009 (Vol 3, Issue 4) until the June 2014 issue (Vol 8, Issue 3), that is for 26 issues over 4 and a half years. We are truly grateful for his great devotion. Under his efficient leadership the ISSMGE Bulletin is now published 6 times per year. Our warmest thanks also go to all the members of the Editorial Board during these years: Pedro Sêco e Pinto, Jean-Louis Briaud, Neil Taylor, John Carter, Deepankar Choudhury, Marcelo Gonzalez, Erdin Ibraim, Osamu Kusakabe, Andre Lima, Susumu Nakajima, Makoto Namba, Pongsakorn Punrattanasin, Cholachat Rujikiatkamjorn, Imen Said, Fernando Schnaid and António Topa Gomes. I am also very grateful to some of those former members who have kindly agreed to continue to serve the Editorial Board.

Join me, as well, to welcome Professor Charles Ng as the new Editor-in-Chief, who prepared the current issue of the ISSMGE Bulletin with the new Editorial Board, whose names are printed at the bottom left, on the front page of this Bulletin. We wish them great success in the difficult task they accepted and for devoting themselves to the ISSMGE.

Roger Frank

Paris, 16<sup>th</sup> August 2014

## **AWARDS COMMITTEE**

### **EXECUTIVE:**

Chair: Charles Ng (Asia) [cecwwng@ust.hk](mailto:cecwwng@ust.hk)

Secretary: Esve Jacobsz (Africa)

Lidija Zdravkovic (Europe)

Werner Bilfinger (South America)

Max Ervin (Australasia)

Teik Aun Ooi (Asia)

Kerry Rowe (North America)

Carlos Quadros (Africa)

Board liaison persons: Antonio Gens

Ad hoc members appointed as appropriate

## Vice President for Asia

### Professor Ikuo Towhata

Department of Civil Engineering University of Tokyo

7-3-1, Hongo Bunkyo-Ku

Tokyo 113-8656, Japan

Tel: +81-3-5841-6121

Email: towhata@geot.t.u-tokyo.ac.jp

<b>Hong Kong Geotechnical Society</b>	Hong Kong
<b>Bangladesh Society for Geotechnical Engineering</b>	Bangladesh
<b>CISMGE-CCES</b>	China
<b>Chinese Taipei Geotechnical Society</b>	Chinese Taipei
<b>Indian Geotechnical Society</b>	India
<b>Indonesia Society for Geotechnical Engineering</b>	Indonesia
<b>Iranian Geotechnical Society</b>	Iran
<b>Iraqi Scientific Society for Soil Mechanics and Foundation Engineering</b>	Iraq
<b>Japanese Geotechnical Society</b>	Japan
<b>Kazakhstan Geotechnical Society</b>	Kazakhstan
<b>Kyrgyzstan Geotechnical Association</b>	Kyrgyzstan
<b>Lebanese Geotechnical Engineering Society</b>	Lebanon
<b>Malaysian Geotechnical Society</b>	Malaysia
<b>Nepal Geotechnical Society</b>	Nepal
<b>Pakistan Geotechnical Engineering Society</b>	Pakistan
<b>Geotechnical Society of Singapore</b>	Singapore
<b>Southeast Asian Geotechnical Society</b>	South East Asia
<b>Korean Geotechnical Society</b>	South Korea
<b>Sri Lankan Geotechnical Society</b>	Sri Lanka
<b>Order of Syrian Engineers and Architects</b>	Syria
<b>Tajikistan Geotechnical Society</b>	Tajikistan
<b>Thai Geotechnical Society</b>	Thailand
<b>Uzbekistan Geotechnical Society</b>	Uzbekistan
<b>Vietnam Society for Soil Mechanics and Geotechnical Engineering</b>	Vietnam

## Papers submitted by SEAGS to and accepted by the 15ARC organizing committee

No.	Theme	Author 1	e-mail	Title	Author 2	Author 3	Author 4	Author 5
SEA-1	15: Case Histories	T.A. Ooi	drtaooi@gmail.com	Lateral Soil Pressure induced Failures	C.H. Tee	C.B. Chan		
SEA-2	7: Underground construction	Pio-Go Hsieh	spg@cc.hwh.edu.tw	A study of the efficiency of excavations with the installation of buttress walls in reducing the wall deflection	Wei-Han Hsieh	Chang-Yu Ou	Shao-Chi Chien	
SEA-3	11: Ground Improvement	Suksun Horpibulsuk	<a href="mailto:suksun@g.sut.ac.th">suksun@g.sut.ac.th</a>	Pullout Resistance Mechanism of Bearing Reinforcement Embedded in Stone Clay from Mae Moh Power Plant, Thailand	Apichet Joongklang	Artit Udmchai	Narongsak Mavong	Arul Arulrajah
SEA-4	11: Ground Improvement	K. Rainer Massarsch	rainer.massarsch@georisk.se	Execution and Evaluation of Deep Vibratory Compaction				
SEA-5	3: Geo-disaster earthquake	Jia He	jchu@iastate.edu	Microbial soil desaturation for mitigation of liquefaction	Jian Chu	Hanlong Liu	Yufeng Gao	
SEA-6	6: Foundations	Madhira R. Madhav	madhavmr@gmail.com	Bearing capacity of strip footing on reinforced granular bed over soft non-homogeneous ground with granular trench	Rajyalakshmi, K.	Abhishek, S.V.		
SEA-7	7: Underground construction-Tunnelling	Suched Likitlersuang	fcslk@eng.chula.ac.th	Long-term Behaviour Prediction of the Bangkok MRT Tunnels Using Simplified Finite Element Modelling	Chanaton Surarak	Sarun Bamrungrat	Arumgam Balasubramaniam	
SEA-8	10: Geo-environmental Engineering	A. Abdullah	hazarika@civil.kyushu-u.ac.jp	Improvement of Shallow Foundation using Non-liquefiable Recycle Materials	H. Hazarika			
SEA-9	11: Ground improvement and geo-synthetics	Liming HU	gehu@tsinghua.edu.cn	Electro-osmotic consolidation for expansive soils using active/inert electrodes	Hui Wu	Jay Meegoda		
SEA-10	11: Ground Improvement and Geosynthetics	Suthasinee Artidteang	kwangce@gmail.com	Properties and Applications of Kenaf Limited Life Geotextiles (LLGs) for Reinforcement of Embankment on Soft Ground	Salisa Chaiyaput	Dennes T. Bergado		
SEA-11	1: Characterization of Soils	Jirayut Suebsuk	jirayut.su@rmuti.ac.th	Modeling the Structured Clays under Repeated Loading	Suksun Horpibulsuk	Martin D. Liu		
SEA-12	11: Ground Improvement	Yoon Cheong LAM	<a href="mailto:yclam@minconsult.com">yclam@minconsult.com</a>	Land reclamation & soil improvement works for a coal fired power plant in Malaysia	Dennis GANENDRA	S. Krishna PRASAD		
SEA-13	10: Geo-environmental Engineering	Gouw Tjie-Liong	gtloffice@gmail.com	Modeling of Concrete Mattress for Shore Protection by Plaxis 2D	Anthony Gunawan			
SEA-14	7: Underground construction tunneling	Salisa Chaiyaput	salisa.fern@gmail.com	Influence of Copy Cutter Length on H&V Shield Behaviour	Huynh Ngoc Thi	Mitsutaka Sugimoto		
SEA-15	1: Characterization of Soils	Wong, S.T.Y.	elong@swinburne.edu.my	Characterization of Reconstituted Malaysian Kaolinite Silts with Varying Clay Contents	Ong, D.E.L.			

## Why join SEAGS, AGSSEA & ISSMGE?

The advantages in joining the SEAGS, AGSSEA and ISSMGE are as follows:

- 1 Receive updated activities, current events and important information regarding geotechnical engineering around the world through the bi-annual SEAGS / AGSSEA Newsletter and 4 issues of Journals annually.
- 2 The opportunity to submit papers for publication and to read up-to-date technical papers through the 4 issues of Geotechnical Engineering Journal annually.



- 3 The ability to attend, participate, and avail to state-of-the-art lectures and papers in the local, regional, and international geotechnical conferences at discounted registration fees.
- 4 The chance to network with other geotechnical engineers, academics, and practitioners around the world as SEAGS member automatically becomes member of ISSMGE.
- 5 The opportunity to fraternize with professionals of

related fields of geology, geophysics, and rock mechanics through the association of ISSMGE with the International Society for Rock Mechanics (ISRM) and International Association of Engineering geology (IAEG).

## CONFERENCES in ASIA

### FIFTEENTH ASIAN REGIONAL CONFERENCE on Soil Mechanics and Geotechnical Engineering (15ARC)

November 2015, Kyushu, Japan

The Fifteenth Asian Regional Conference will be held under the auspices of the **Japanese Geotechnical Society (JGS)** in Kyushu, Japan in November 2015. The subtitle of this conference is “New Innovations and Sustainability” which

Indicates not only new technologies and methods in Geotechnical Engineering but also the sustainability of a better human life are the main topics of interest at this conference.

The JGS has been working on and contributing to various international activities with other countries' geotechnical society since its establishment. The JGS hosted once successfully the 9th and 16th International Society for the Soil Mechanics and Geotechnical Engineering (ISSMGE) at Tokyo in 1977 and Osaka in 2005. The JGS also hosts two or three international symposia or workshops on the specific themes every year in various region of Japan including five time of IS Kyushu.



As many of you know, ISSMGE members are from both academia and those working in the field, and thus the fusion of those two members are one of the most important issues for sustaining our society. In this 15ARC, we will hold a special event called “Engineering Session Day”. In addition, a discussion on the rehabilitation projects following mega disasters such as the 2011 Great Tohoku Earthquake will be featured as a work of collaboration involving groups from industry-government-academia.

With regard to the Asian Regional Conference, the JGS hosted twice Asian Regional Conference at Tokyo in 1963 and Kyoto in 1987. Over a quarter of a century has passed since the last hosting of the Asian Regional Conference was held in Japan. All the JGS members take great pleasure in inviting all of ISSMGE members from Asia and all over the world to participate in 15ARC, Fukuoka, Japan in 2015. Finally, we hope that all participants will join the special event and sessions and have fruitful discussions on all kinds of geotechnical issues.

The following themes of the conference are:

- (1) Mitigation and Risk Assessment of Geo-Hazards;
- (2) Solutions on Geoenvironmental Issues;
- (3) Information and Communication Technology (ICT) in Geotechnical Engineering;
- (4) Modeling of Geotechnical and Geoenvironment Problems;
- (5) New Construction Methods on various Ground Conditions; and;
- (6) Geotechnical Challenge under Global Climate Change and Green Innovation.

**For further information, please contact:**

15ARC  
2-39-1 Kurokami, Chuo-ku, Kumamoto City  
Kumamoto, Japan  
ZIP cord: 860-8555  
TEL & FAX: +81-96-342-3535  
E-mail: [15tharc@kumamoto-u.ac.jp](mailto:15tharc@kumamoto-u.ac.jp)  
Website: [www.jgskyushu.net/uploads/15ARC](http://www.jgskyushu.net/uploads/15ARC)



# **19TH SOUTHEAST ASIAN GEOTECHNICAL CONFERENCE & 2ND AGSSEA CONFERENCE (19SEAGC / 2 AGSSEAC)**

**Venue: Hanoi, Vietnam**

**Proposed Date: 17 – 19 June 2016**

**Conference Theme: Geotechnical Engineering for Green Vision Development**

Organized by the **Vietnamese Society for Soil Mechanics and Geotechnical Engineering (VSSMGE)** under the auspices of **Southeast Asian Geotechnical Society (SEAGS)** and the **Association of Geotechnical Societies in Southeast Asia (AGSSEA)**.

## **Topics for the conference include:**

- Case histories
- Protection of ecosystem
- Design codes, standards and manuals
- Design and analysis
- Opportunities and challenges of geotechnical engineering in Southeast Asia
- Laboratory tests and quality control
- Instrumentation and monitoring
- Innovative construction and green technology
- Ground improvement
- Slope stability and landslides
- Land reclamation and offshore construction
- Shallow and deep foundation
- Excavation and retaining structures
- Tunneling and underground space
- Seismicity and liquefaction
- Education and training

## **Key Dates:**

- Abstract deadline □ **1 May 2015**
- Notification of acceptance of abstracts □ **1 July 2015**
- Deadline of full paper □ **31 December 2016**
- Notification of acceptance of full paper □ **1 March 2016**
- Early bird registration deadline □ **15 March 2016**
- Conference □ **17 to 19 June 2016**

Language: English

Conference Chair: **Prof. Nguyen Truong Tien** (VSSMGE)

Conference Co-chair: **Dr. Ooi Teik Aun** (SEAGS) and **Ir. Kenny Yee**

(AGSSEA) Organizing Committee: To be confirmed

Conference Advisory Committee: To be confirmed

## CONFERENCES outside ASIA

### 10th INTERNATIONAL CONFERENCE on GEOSYNTHETICS Berlin, Germany

IGS Young Members "Call for Papers" 15 February 2014

The **German Geotechnical Society (DGGT)** and the **International Geosynthetic Society (IGS)** German Chapter, as a special group within the DGGT, cordially invite you to participate in the **10th International Conference on Geosynthetics (10ICG)** in 2014 in Berlin, Germany. The conference 10ICG will be held from 21 to 25 September 2014 in direct connection with the 33<sup>rd</sup> Baugrundtagung (German Soil Mechanics Conference) of DGGT (23 to 26 September 2014).

As the Baugrundtagung expects 1200 participants great synergy and interaction is anticipated between these events, especially in the co-organized, co-located exhibition. The overlapping of lectures from both events will also attract many additional experts from the geotechnical and geosynthetics professions. As a special benefit the Baugrundtagung will be translated to English simultaneously.

#### Conference Themes

- Green Engineering, Sustainability and Durability with Geosynthetics
- Use of Geosynthetics for Renewable Energy
- Mining, Waste Management, Contaminated Sites and Environmental Protection
- Roads, Railways and other Transportation Applications
- Reinforcement in Walls, Slopes, Embankments and Base Courses
- Flood Control, Levee and Canals, Dams,
- Reservoirs and other Hydraulic Applications
- Drainage and Filtration Properties of Geosynthetics
- Geomembrane and Geosynthetic Clay Liner Barrier Systems
- Case Histories and Innovative Uses of Geosynthetics
- Quality Control, Quality Assurance and Accreditation
- On-site Installation Technologies and Monitoring Programs
- Soil-Geosynthetic Interaction and Large-Scale Performance Testing
- Design Approaches
- Regulations and Recommendations
- Looking to the Future with New Geosynthetic Products



#### For further information, please contact:

Dr. Nathalie Touze-Foltz:

E-mail: [nathalie.touze@irstea.fr](mailto:nathalie.touze@irstea.fr),  
[g.braeu@bv.tum.de](mailto:g.braeu@bv.tum.de),  
[igssec@geosyntheticsociety.org](mailto:igssec@geosyntheticsociety.org)  
Website: [www.10ICG-Berlin.com](http://www.10ICG-Berlin.com)

## JOURNAL ISSUES 2014

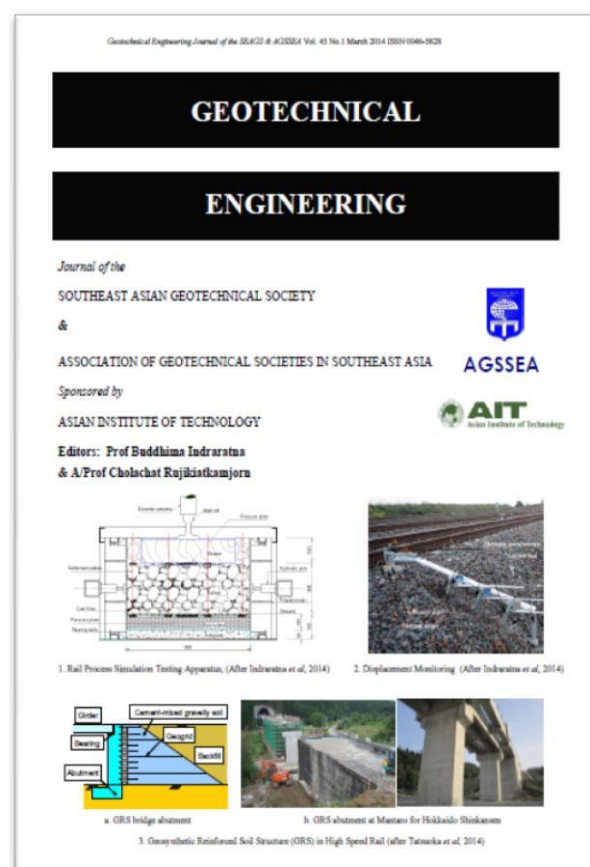
The Geotechnical Engineering Journal with ISSN 0046-5828 is now published by the Southeast Asian Geotechnical Society since 1970 and distributed to members, subscribers and others on a worldwide basis since 1970. Currently the Journal is published four times a year in March, June, September and December and an annual hard volume is published to contain all the papers in December. This procedure is adopted to keep the entire cost as low as possible and to avoid mailing and other expenses as much as possible. Since 2011, a number of themes oriented Issues were produced which really have excellent papers.

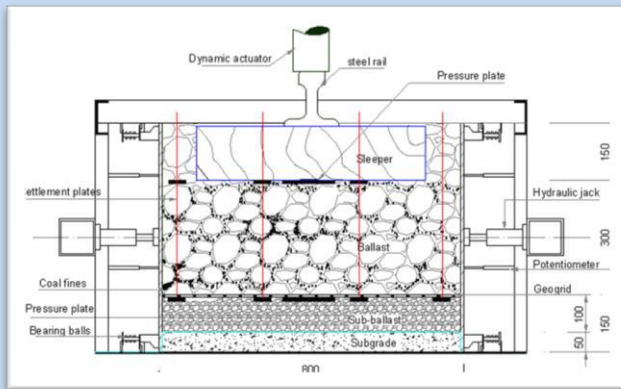
### March 2014 Issue

The Guest Editors for the Issue of **March 2014** are **Prof. Buddhima Indraratna** and **Dr. Cholachat Rujikiatkamjorn** on **Geotechnics for Advancing Transport Infrastructure** which resulted from keen discussion among various experts, for highlighting the key geotechnical issues encompassing modern transport infrastructures. This special issue includes a dozen invited papers from around the globe, including numerical and analytical methods, design parameters, field and laboratory testing, and case studies.

#### Details of the Table of Contents are:

- 1. Geosynthetic-Reinforced Soil Structures for Railways: Twenty Five Year Experiences in Japan** by *F. Tatsuoka, M. Tateyama, J. Koseki and Yonezawa, T.*
- 2. Enhancement of Rail Track Performance through Utilisation of Geosynthetic Inclusions** by *Buddhima Indraratna, Sanjay Nimbalkar, and Cholachat Rujikiatkamjorn*
- 3. Railway Track Transition Dynamics and Reinforcement Using Polyurethane GeoComposites** by *P. Woodward, O. Laghrouche and A. El-Kacimi*
- 4. How to Overcome Geotechnical Challenges in Implementing High Speed Rail Systems in Australia** by *H. Khabbaz and B. Fatahi*
- 5. Maintenance Model for Railway Substructure** by *Ali Ebrahimi, James M. Tinjum, and Tuncer B. Edil*



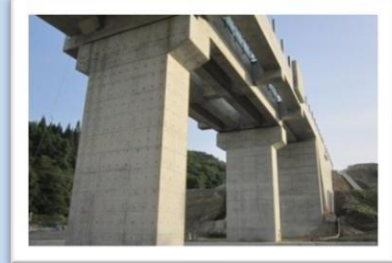
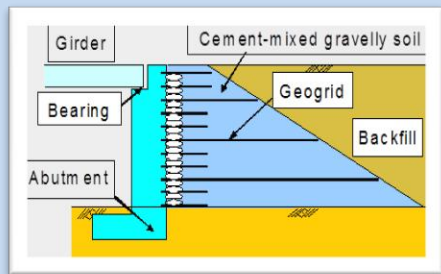


1. High Speed Rail Process Simulation Apparatus



2. Track displacement Monitoring

**Figs 1 & 2 from Indraratna et al, 2014**



**Fig.3: Geosynthetic Reinforced Soil Structure (GRS) in High Speed Rail**  
After Tatsuoka et al, 2014)

- 6. Dynamic Behaviour of Railway Ballasted Track Structures in Shaking Table Tests and Seismic Performance Evaluation in Japan**  
by T. Ishikawa, S. Miura and E. Sekine
- 7. Mechanical Properties of Polyurethane-Stabilized Ballast**  
by A. Keene, J.M. Tinjum, and T.B. Edil
- 8. Dependency of Cyclic Plastic Deformation Characteristics of Unsaturated Recycled Base Course Material on Principal Stress Axis Rotation**  
by A. Inam, T. Ishikawa, and S. Miura
- 9. Quickness Test Approach for Assessment of Flow Slide Potentials**  
by V. Thakur and S. A. Degago
- 10. Cement Stabilization for Pavement Material in Thailand**  
by S. Horpibulsuk, A. Chinkulkijniwat, A. Suddeepong, and A. Neramitkornburee
- 11. Stone Columns Field Test: Monitoring Data and Numerical Analyses**  
by Marcio Almeida, Bruno Lima, Mario Riccio, Holger Jud, Maria Cascão, Felipe Roza

Technical Note: **Numerical Analysis of Response of Geocell Confined Flexible Pavement**  
by G. L Sivakumar Babu and Ram Babu



## THEME ISSUES from 2011-2013

Brief details of the other Theme Issues from 2011-2013 are given below. They too have excellent papers.

### Year 2011

**March** □ **Ground Improvement:** Prof. Jie Han

**June** □ **Piled & Piled Raft Foundations:** Prof. Tatsunori Matsumoto & Prof. Der-Wen Chang

**September** □ **Deep Excavations & Tunnels:** Prof. Chang Yu Ou

**December** □ **Soil Behaviour:** Dr. Dariusz Wanatowski

### Year 2012

**March** □ **Unsaturated Soil Behaviour:** Prof. Charles W W Ng & Dr. Apiniti Jotisankasa

**June** □ **Geotechnical Earthquake Engineering:** Prof. Ikuo Towhata, Prof. Der Wen Chang & Dr. Ivan Gratchev

**September** □ **Environmental Geotechnics and Sanitary Landfills:** Prof. Malek Bouazza

**December** □ **In-situ Testing:** Tom Lunne & Prof. Don de Groot

### Year 2013

**March** □ **Contributed Papers:** Prof. Der-Wen Chang & Dr. Dariusz Wanatowski

**June** □ **Modelling Soil Behaviour:** Prof. Akira Murakami

**September** □ **Geotechnical Analyses:** Prof. Fusao Oka & Prof. Helmut F. Schweiger

**December** □ **Ground Improvement (Honouring Prof. Bergado):** Prof. Chai Jin-Jun & Prof. Shui-Long Shen

## SPECIAL ISSUES for 2015

### June 2015

#### Design of Pile Foundations

**Prof. San-Shyan Lin**

The trend in pile foundations for high or large super structures has been toward using larger diameter driven piles or drilled shafts due to their considerable axial load carrying capacities and lateral resistance capacities. With the advancement of technology, the testing of larger size pile foundations are being continuously improved or innovated. In addition, there is also a desire in our profession to adopt the reliability based design approach (including Load Resistance Factor Design and Limit State Design) to address various performance requirements and accommodate uncertainties in the design. On the other hand, a substantial amount of published papers in the past decades indicate geotechnical engineers are still concerned with up-to-date pile load testing and new trend of reliability based design.

We are organizing a special issue of “Testing and Reliability Based Design of Pile Foundations” in Geotechnical Engineering – Journal of SEAGS-AGSSEA. The aim of this special issue is to bring together researchers and practitioners in the aforementioned areas to share their advanced state-of-the-art or state-of-the-practice research achievements to resolve the challenging issues. Papers describing static, dynamic, rapid or any other types of testing and reliability or performance based design of pile foundation studies are solicited for this special issue.

## Submission Guidelines

Only high quality original papers that are not or have not been submitted for publication elsewhere will be considered. All submitted papers will be peer-reviewed on the basis of originality, quality and relevance. The submitted papers should be formatted according to the journal style. Instructions for submission can be found at: <http://www.seags.ait.ac.th/Note.htm>. Please submit your abstract and paper to Prof. San-Shyan Lin via his email address [sslin46@gmail.com](mailto:sslin46@gmail.com)

## Important Dates

Abstract deadline: 30 October, 2013

Notification of acceptance of abstracts: 30 December, 2013

Submission of full paper: 30 May, 2014

First decision notification 30 August, 2014

Revised version submission: 30 November, 2014

Estimated publication date: June 2015

## Guest editors of the special issue:

**San-Shyan Lin**, Prof., Dept. of Harbor and River Eng., Taiwan Ocean University, Taiwan

**Robert Liang**, Prof., Dept. of Civil Engineering, Akron University, USA.

**C. H. Juang**, Glenn Professor, Dept. of Civil Engineering, Clemson University, USA.

**September 2015**

## Time Effects on the Behavior of Soils September 2015

Call for the special issue of “Time Effects on the Behavior of Soils” in Geotechnical Engineering – Journal of SEAGS-AGSSEA by Guest Editor: Jian-Hua YIN (Hong Kong) and Zhen-Yu YIN (China)

Dear Colleagues,

Due to the low permeability and strength of soft soils, the excess pore water pressure is usually generated with time during constructions of embankments, buildings for example. Foundation soils may be deforming simultaneously under undrained, partially drained or fully drained conditions. The continuing undrained straining in soft soils may result in a collapse of the foundation on the soils; while the continuing drained straining may result in long-term and excessive displacements of geotechnical structures. Therefore, it is important to capture the time effects on the behavior of soils in order to estimate both short-term and long-term displacements and stability of geotechnical structures.

We are organizing a special issue of “Time Effects on the Behavior of Soils” in Geotechnical Engineering – Journal of SEAGS-AGSSEA. The aim of this special issue is to bring together researchers and practitioners in the above mentioned areas to share their research achievements and solutions, to resolve the challenging issues. This will give an opportunity to push further the discussion upon the fundamental issues and application areas. Papers describing consolidation theories, constitutive models, numerical analyses, measurement techniques, and experimental studies are solicited for this special issue.

SEAGS-AGSSEA Newsletter / August 2014

## Submission Guidelines

Only high quality original papers that are not or have not been submitted for publication elsewhere will be considered. All submitted papers will be refereed based on the basis of originality, quality and relevance. The submitted papers should be formatted according to the journal style. Instructions for submission can be found at: <http://www.seags.ait.ac.th/Note.htm>.

Please submit your abstract and paper to Prof. Jian-Hua YIN and Zhen-Yu YIN via their email addresses [cejhyin@polyu.edu.hk](mailto:cejhyin@polyu.edu.hk) and [zhenyu.yin@gmail.com](mailto:zhenyu.yin@gmail.com).

## Important Dates

- Submission of full papers: 30 May 2014
- First decision notification: 30 August 2014
- Revised version submission: 30 November 2014
- Estimated publication date: September 2015

Sincerely Yours,

### Jian-Hua Yin, PhD, Professor

Department of Civil Engineering, The Hong Kong Polytechnic University, Hong Kong

Email: [cejhyin@polyu.edu.hk](mailto:cejhyin@polyu.edu.hk)

### Zhen-Yu Yin, PhD, Professor

Department of Civil Engineering, Shanghai Jiao Tong University, Shanghai, China

Email: [zhenyu.yin@gmail.com](mailto:zhenyu.yin@gmail.com)

December 2015

## Contaminated Soils

Dr. Albert Yeung

## SPECIAL COUNTRY ISSUES

Additionally, **Special Country Issues** are planned for 2015- 2016 for the first time to describe the on-going intense geotechnical activities covering AGSSEA Member countries: Thailand, Taiwan, Hong Kong, Malaysia, Singapore & Indonesia.

**Special Issue on 2015: THAILAND – Dr. Surachat Sambhadharaksa Memorial Issue****Theme: Advances in Geotechnical Engineering for Infrastructure Developments in Thailand****Guest Editors:****Dr. Suched Likitlersuang**, Chulalongkorn University (Editor in Chief)**Dr. Suttisak Soralump**, Kasetsart University**Dr. Tirawat Boonyatee**, Chulalongkorn University**Dr. Siam Yimsiri**, Burapha University**Dr. Thanakorn Chompoorat**, Phayao University (Secretary)**Advisors:****Prof. Arumugam S. Balasubramaniam**, Griffith University, Australia**Prof. Suchatvee Suwansawat**, the King Mongkut's Institute of Technology Ladkrabang**Dr. Seah Tian Ho**, AIT**Dr. Wanchai Teparaksa**, Chulalongkorn University**Dr. Supot Teachavorasinskun**, Chulalongkorn University**Dr. Boonchai Ukritchon**, Chulalongkorn University**Dr. Warakorn Mairiang**, Kasetsart University**Dr. Watcharin Kasalak**, Khon Kaen University**Prof. Dennes T. Bergado**, AIT**Dr. Noppadol Phienwej**, AIT**IMPORTANT DATES** □ Please kindly note the following should you like to contribute an article to this issue:

Abstract Submission Deadline	<b>28 Feb 2014</b>
Notification of Abstract Acceptance	<b>31 Mar 2014</b>
Full Paper Submission Deadline	<b>1 Aug 2014</b>
Notification of Paper Acceptance	<b>1 Nov 2014</b>
Feedback For Revision (If Necessary)	<b>November 2014 to January 2015</b>
Final Camera Ready Manuscript Received for Publication	<b>February 2015</b>

We are very pleased to announce the call-for-paper on “**Advances in Geotechnical Engineering for Infrastructure Developments in Thailand**” for a special issue published on **March 2015**. This is also a **memorial issue** for **Dr. Surachat Sambhadharaksa** who has significantly contributed to developing the geotechnical engineering profession and education in Thailand as well as in the Southeast Asian.

The subjects in this issue will include Sedimentary Soil Behaviour; Laboratory and In-situ Tests; Pile Foundation; Deep Excavation; Tunnelling; Slope Stability; Ground Improvement and other relevant subjects related to infrastructure developments in Thailand.

Enclosed please find a full-paper template for preparations. The abstract of less than 300 words and full-paper can be sent to **Dr. Thanakorn Chompoorat**, Phayao University (Secretary), E-mail: [cthanakorn@gmail.com](mailto:cthanakorn@gmail.com)



We would greatly appreciate your interests and kind help to support this issue on Advances in Geotechnical Engineering for Infrastructure Developments in Thailand.

With Kind Regards,

**Dr. Suched Likitlersuang**

(Editor in Chief)

## 2016 ▶ MALAYSIAN Issue

### Special Issue on March 2016: MALAYSIA

#### Theme: Advances in Geotechnical Engineering for Building & Infrastructure Developments in Malaysia

In order to have a wider catchment of papers and to pick those of the highest quality, topics are invited as based on activities in Malaysia as:

1. Recent Research Developments in Theoretical Geotechnics
2. Laboratory and Insitu Tests
3. Deep Foundations
4. Ground Stabilisation and Earthworks Engineering;
5. Slope Engineering
6. Tunneling Engineering
7. Soft Ground Engineering
8. Deep Excavations and Ground Retention Systems
9. Subjects of relevance to building and infrastructural developments in Malaysia.

The paper should not have been submitted for publication elsewhere. All submitted papers will be subjected to strict peer-review on the basis of originality, quality and relevance.

The abstract of the paper, in not more than 150 words, should be sent by e-mail to:

**Ir. Yee Thien Seng**, at [alainyee@streamyx.com](mailto:alainyee@streamyx.com)

Upon acceptance of the abstract, a full-paper template shall be provided for the preparation of the full paper.

#### Editors:

**Ir. Yee Thien Seng** - GeoConsult, Malaysia  
(Coordinating Editor)

**Ir. Kenny Yee** - Menard Asia

**Ir. Dr. Chan Swee Huat** - University of Nottingham  
Malaysia Campus

**Ir. Dr. Ooi Lean Hock** - MMC-Gamuda JV, Malaysia

**IMPORTANT DATES** □ The following are key dates for timely publication of the special issue:

Deadline for Submission of Abstract	<b>30 June 2014</b>
Notification of Acceptance of Abstract	<b>30 September 2014</b>
Deadline for Submission of Full Paper	<b>30 April 2015</b>
Notification of Acceptance of Paper	<b>30 June 2015</b>
Reviewer Feedback for Revision (if necessary)	<b>June 2015 to September 2015</b>
Deadline for Camera Ready Manuscript for Publication	<b>30 September 2015</b>
<u>Estimated Publication</u>	<b>March 2016</b>

#### Advisors:

**Ir. Dr. Ooi Teik Aun** - TAO Consult, Malaysia

**Ir. Dr. Ting Wen Hui** - Malaysia

**Prof. Arumugam S. Balasubramaniam** - Griffith University, Australia

**Prof. Dennes T. Bergado** - Bangkok, Thailand

**Ir. Dr. Chan Sin Fatt** - Malaysia

**Ir. Yee Yew Weng** - Keller Southeast Asia

**Ir. Prof. Bujang Kim Huat** – Universiti Putra Malaysia, Malaysia

**Prof. Yasou Tanaka** - Universiti Tunku Abdul Rahman, Malaysia

**Ir. Liew Shaw Shong** - G&P Geotechnics Sdn Bhd, Malaysia

**Theme: From Newly Built to Disaster Preventions - Recent Geotechnical Experiences in Taiwan**

The target candidates are in addition to the Universities, the Engineering Consulting Firms and Research Institutes who have done excellent geotech works in Projects related to constructions, mitigations, rehabilitations, managements, etc.

**Time Lines:**

**June 30, 2014** - Abstract due

**July 31, 2014** - Notice of abstract acceptance

**October 31, 2014** - Full paper due

**December 31, 2014** - Notice of review comments and suggestions for revisions

**January 31, 2015** - Final paper due

**Committee in Charge:**

**Prof. Der Wen Chang** (Editor in Charge)

**Prof. Meei-Ling LIN**

**Prof. Chang Yu Ou**

**Dr. Richard Hwang**

**Advisors (To be confirmed):**

**Prof. Yung-Show Fang Prof.**

**San-Shyan Lin**

**Dr. Chung Tien Chin**

**Dr. John C. Li**

**Dr. Za-Chieh Moh**

**HONG KONG Issue**

**Subject:** Appeal to HKGEO, HKHA and MTRC for papers contribution to the HK Issue of SEAGS\_AGSSEA Journal (2015): From: Sing-lok CHIU, PhD, MSc, DIC, BSc, RGE, RPE(Geo), MHKIE

**Theme: Geotechnical challenges of the recent major projects in Hong Kong**

**Topics:** Regarding the topics of papers for the HK issue, initially no limits are set; however, some topics are brain stormed as follows:

- (1) Soil and Rock Behaviours - Theory and applications
- (2) Laboratory and field techniques - Testing and monitoring
- (3) Slope instability and natural terrain hazard assessment - Theory, practice and risk management
- (4) Foundations and deep excavations - Theory and practice
- (5) Modern trend of tunnelling techniques

For this HK Issue about 10 to 12 papers are envisaged; given the past experience of Prof Yin on similar task. The tentative schedule for this HK Issue is as follows:

- (1) Call for paper abstracts (Jan – March 2014)
- (2) Full paper submission (on or before 31 August 2014)
- (3) Revision to and finalization of papers (before 31 October 2014)
- (4) Manuscripts ready for publication (31 December 2014)
- (5) HK Issue appears in 2015

At present, working with Dr. Chiu are Tony Cheung of AECOM as the task leader, SL of AECOM as the coordinator and Prof Yin of PolyU as special task advisor. Other possible helpers are also there.

## INDONESIAN Issue

**Theme:** to be announced

### Committee in Charge:

Dr. Nurly Gofar  
Dr. Hasbullah Nawir  
Prof. Paulus P. Rahardjo  
Spr Wardani  
Gouw TL  
Prof. Harianto Rahardjo  
Prof. Masyhur Irsyam  
Dr. Pintor Tua Simatupang

### Advisors:

Dr. Mike Dobbie  
Prof. Ikuo Towhata  
Prof. K.Y. Yong  
Scott Younger

**Time Lines** to be announced

## VIETNAMESE Issue

**Theme:** Ground Improvement & Piled Foundations

### Committee:

Dr. Phung Duc Long (Team Leader)  
Mr. Mai Trieu Quang  
Dr. Pham Giao  
Dr. Pham Long  
Dinesh Raj Shiwakoti  
Dr. Sung-min Michael Cho

### Advisers (to be confirmed):

Prof. Nguyen Truong Tien Dr.  
Ir. Dr. Ooi Teik Aun  
Ir. Kenny Yee  
Dr. Noppadol Phienwej  
Prof. Dennes Bergado  
Nguyen Duc Toan

**Time Lines** to be announced

## 50th ANNIVERSARY SPECIAL ISSUE for 2017

On the occasion of the **50th Anniversary** in 2017, special Issues are planned as follows:

- Prof. Kazuya Yasuhara, Dr. Farrokh Nadim, NGI & Prof. Heinz Brandl on **Climate Change, Hazards and Innovative Methods in Energy Saving Geotechnical Construction**
- Robert Mair, Prof. K Y. Yong & Prof. Zhao Jian on **Geotechnical Advances in Underground Transport**
- Prof. Poul Lade, Prof. Akira Murakami and Prof. Helmut Schweiger on **Soil Models in Geotechnical Analyses**
- Prof. Harry G Poulos, Prof. Masaki Kitazume & Prof. Chang Yu Ou on **Research & Practice in Foundations & Deep Ground Improvement Techniques**
- Prof. Jie Han, Prof. F. Tatsuoka & Prof. Ben Leshchinsky on **Geosynthetic-reinforced earth structures under non-standard conditions**
- Prof. Ikuo Towhata, Prof. Der Wen Chang & Prof. C.W. Lu on **Earthquake Related Hazards & Mitigation**

# SEAGS MEMBERSHIP LIST

COUNTRY	Life Members, Ordinary Membership & Subscriptions of SEAGS by Country (August 2014)		
	Life Membership	Individual Membership	Subscribers
Australia	11	4	2
Austria	1		
Canada	4	1	7
Cambodia	1		
China	2	3	
Germany	1		2
Hong Kong	6	3	4
India	1		2
Indonesia	3	1	
Iraq	1		
Ireland			1
Italy			2
Japan	12	6	2
Kazakhstan	1		
Korea	5		2
Malaysia	15	25	
Mexico, D.F.		1	
Mongolia		1	
Myanmar	2		
Pakistan	1		
Philippines	2	1	
The Netherlands			9
Norway	1		1
R.O.C.	17	5	2
Scotland			
Singapore	11	6	1
Spain	1		
South Africa			1
Sweden	2		
Switzerland	2		
Thailand	10	11	
U.A.E.		1	
U.K.		1	3
U.S.A.	7	4	14
Vietnam	1	2	
Total	121	76	55



## LIST OF DONORS

### Mr. Y. Y. Tseng

Mr. Tseng's was the first of 120 engineers to attended AIT through sponsorship of the Retired Servicemen Engineering Agency ("RSEA") of Chinese Taipei. Mr. Tseng returned to the agency at a time in which the agency was participating in the rapid development of Chinese Taipei's infrastructure and resources. Mr. Tseng became Chief Engineer and Vice President, subsequently being elevated to President (1991-99). Mr. Tseng was also in charge of the RSEA's overseas business expansion, with offices in North America, the Middle East, Africa, South East Asia and the South Pacific Ocean. During his tenure at the Agency, Mr. Tseng led the firm to be listed among the world's top 500 ranked by the Engineering News Record magazine. At this time the Agency became a mega construction firm with a staggering annual turnover of over US\$1 billion. Mr. Tseng has supported AIT continually since his graduation by encouraging sponsorship of scholarships, serving as Chairman of the national chapter of the AIT Alumni Association and serving as an AIT Trustee, the first alumni to have held that position.

### Mr. Hoow Kiong Ooi

Mr. Ooi graduated from IIT Bombay (1976) with B Tech in Civil Engineering and AIT Bangkok (1978) with Master of Eng. in Soil Engineering. Upon graduation he returned to Malaysia where he started off his career as a Geotechnical Engineer for Consultant Firm and Malaysia Mining Corporation. He then freelanced for a while before establishing and managing a Specialist Geotechnical Contracting firm in 1984. He retired in 2013 and is currently residing in New Zealand.

### Mr. June Soun Chen

AITAA-ROC  
Chapter  
R.O.C.

## INTERESTING WEBSITES

### SGI-Line



- ▶ [http://www.swedgeo.se/templates/SGIStandardPage\\_184.aspx?epslanguage=EN](http://www.swedgeo.se/templates/SGIStandardPage_184.aspx?epslanguage=EN)
- ▶ [http://www.swedgeo.se/templates/SGIStandardPage\\_186.aspx?epslanguage=EN](http://www.swedgeo.se/templates/SGIStandardPage_186.aspx?epslanguage=EN)

The **SGI-Line** is a literature database containing references to international geotechnical and geoenvironmental literature in a broad context, from practical solutions to theoretical analysis. The database is one of a small number in the world specialized in geotechnical and geoenvironmental engineering. The database contains some 70,000 references from 1976 up to present. The database is continuously updated and expanded with about 2,000 references a year. Several references added during the recent years links to further information,

full-text documents or abstracts/table of contents. SGI-Line is produced by the Swedish Geotechnical Institute, Sweden. Most of the documents, books, articles in journals, papers in conference proceedings, reports, theses, etc, referred to in the database are available in the SGI Library.

Link to more information on the Database (Information sheet):

<http://www.swedgeo.se/upload/SGI-tjanster/pdf/SGILine-english-2007.pdf>

## QuadSearch



► <http://delab.csd.auth.gr/~lakritid/index.php?lan=1&s=2>

**QuadSearch** are metasearch engines that are web services designed to transfer the user's queries to multiple existing search engines. A metasearch engine does not maintain its own index of documents. It collects and reorganizes the result

lists (top-k lists), then it returns the processed data to the user. Compared to a classic single search engine, a metasearch engine offers increased web coverage, improved retrieval effectiveness, effortless invocation of multiple search engines.

## ICE Virtual Library



The ICE Virtual Library hosts all the content from ICE Publishing, the publishing division of the Institution of Civil Engineers (ICE).

► <http://www.icevirtuallibrary.com/content/journals>

This site is an online journal service. It provides the opportunity to stay on top of cutting-edge issues in all aspects of civil engineering with papers and articles. It contains large amount of civil engineering journals. All Proceedings of the Institution of Civil Engineering journals are listed on this site. Abstracts and table of contents are freely available to all.

## Geotechnical software sites

The following sites contain geotechnical software's indispensable to geotechnical engineers.

► <http://www.usucger.org>

This site's mission is to provide advocacy for the continued development and expansion of high quality geomechanical, geotechnical and geo-environmental engineering research and education which will enhance the welfare of humankind.

► <http://alert.epfl.ch>

The Alliance of Laboratories in Europe for Research and Technology (ALERT) "Geomaterials" has been created to develop a European School of Thinking in the field of the Mechanics of Geomaterials. The generic name "Geomaterials" is viewed as gathering together materials, whose mechanical behaviour depends on the pressure level, which can be dilatant under shearing and which are multiphase because of their porous structure.

► <http://www.geoengineer.org>

The site started as a personal effort to provide useful information for engineers, students, and academia by taking advantage of the opportunities provided by the internet. Consecutively, it provides a cost-free resource for the engineers to learn about the latest news in their field and keep up with the progress of research.

► <http://www.ascelibrary.org>

In this site you can find and download full-text civil engineering research and applications-oriented articles. You can choose only the content you need from across a universe of 260,000 pages of content; journal papers from 1993 to present, proceedings papers from 2003 to present, 28,000 articles-4,000 new articles added each year. You can quickly have the information thru Research Library gold Card.

### Other Links:

**The Engineer Explains** □ <http://engineerexplained.com/VincentChuColumn/#T1>

**Ask An Expert** □ <http://engineeringcivil.com/ask-an-expert>

**Ask a Civil Engineer** □ <http://aboutcivil.com/answers/>

**RockWare** □ <http://www.rockware.com/home/lobbyMod.php?id=3&mod=industry>

**SoilVision Systems** □ <http://www.soilvision.com/>

**GAEA Technologies** □ <http://www.gaea.ca/>

**TAGAssoft** □ <http://www.tagasoft.com/TAGAssoft>

**GEO-SLOPE** □ <http://www.geo-slope.com/>

**Geotechnical Software Resources** □ <http://www.ejge.com/GVL/soft-gvl.htm>

## PROCEEDINGS & JOURNALS FOR SALE

No.	Please tick choice	TITLE	Discounted Price in Surface Mail (US\$)	Additional for Air Mail Charge (US\$)	
				Asian Zones	Other Zones
1.		Proceedings of the International Symposium, Exhibition and Short Course on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change, Conference CD, 7 to 9 December 2010.	50	10	15
2.		Proceedings of the International Symposium on Geotechnical Engineering. Ground Improvement and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming. Conference CD, 3 to 4 December 2009	50	10	15
3.		Proceedings of the 16 <sup>th</sup> Southeast Asian Geotechnical Conference, 8 to 11 May 2006, Kuala Lumpur (Vol. 1 = 964 pages)	150	21	29
4.		Proceedings of the International Symposium on Geotechnical Aspects of the Suvarnabhumi Airport Thailand	50	10	20
5.		Proceedings of the 15 <sup>th</sup> Southeast Asian Geotechnical Conference, 22 to 26 November, 2004, Bangkok (Vol. I = 1,000 pages/ Vol.2 = 210 pages)	100	21	29
6.		Proceedings of the Malaysian Geotechnical Conference 2004, The Institute of Engineering Malaysia, 16-18 March 2004 (524 pages)	100	14	21
7.		Proceedings of the 14 <sup>th</sup> Asian Regional Conference on Geotechnical Engineering Meeting Society's Needs, Hong Kong, 10-14 December 2001 (2 Volumes)	100	10	15
8.		Proceedings of the GEOTECH-YEAR 2000, Developments in Geotechnical Engineering, Bangkok, Thailand, November 2000. All Volumes.	100	16	22
		Volume I (452 pages) Hard Bound	55	10	15
		Volume II (734 pages) Hard Bound	65	15	20



<b>9.</b>		Proceedings of the Civil and Environmental Engineering Conference – New Frontiers and Challenges, 8-12 November 1999. All Volumes. Soft bound.	200	37	50
		Volume 1 – Environmental Engineering (506 pages of 57 papers)	50	10	16
		Volume 2 – Geotechnical and Geo-environmental Engineering (700 pages of 78 papers).	50	13	19
		Volume 3 – Structural Engineering and Construction (634 pages of 72 papers).	50	13	19
		Volume 4 – Transportation Engineering (428 pages of 47 papers).	50	10	16
		Volume 5 – Water Engineering and Management (598 pages of 67 papers).	50	13	19
		Volume 6 - Keynote and Special Lectures. (274 pages of 23 papers)	50	7	10
<b>10.</b>		Proceedings of the 13 <sup>th</sup> Southeast Asian Geotechnical Conference, Taipei, Taiwan, R.O.C, 16-10 November, 1998. Vol. 1 (851 pages), Vol. 2 (212 pages), Hard bound.	100	22	30
<b>11.</b>		Proceeding of the 30 <sup>th</sup> Year Anniversary Symposium on Deep Foundations, Excavations, Ground Improvements and Tunneling, Bangkok, Thailand, 03-07 November, 1997. 645 pages.	100	16	22
<b>12.</b>		Proceedings of the 12 <sup>th</sup> Southeast Asian Geotechnical Conference and the 4 <sup>th</sup> International Conference on Tropical Soils, Kuala Lumpur, Malaysia, May 1996. Vol. 1 (618 pages), Vol.2 (332 pages).	80	21	29
<b>13.</b>		Proceedings of the 11 <sup>th</sup> Southeast Asian Geotechnical Conference, Singapore, March 1993. Hard bound (864 pages).	80	16	22
<b>14.</b>		Proceedings of the Symposium on Developments in Geotechnical Engineering (From Harvard to New Delhi, January 1936-1994) Bangkok, Thailand. (694 pages).	80	10	15

15.		Proceedings of the Symposium on Prediction versus Performance in Geotechnical Engineering, Bangkok, Thailand, December 1992. Soft bound (645 pages)	80	10	15
16.		Handouts of the Short Course on Earthquake Resistant Design, Landslides, Slope Stability and Embankment Dams. 28 July – 1 August, 1997 (931 pages)	60	16	22
17.		Handouts of the Short Course on Geotechnical Analysis for Design and Construction Using Finite Element Program – CRISP. 3-6 February, 1997 (441 pages)	60	16	22
18.		Handouts of the Short Course on Estimation of Design parameters for Soils and Rocks from Laboratory and In-situ Tests. 10-14 June, 1996 (1086 pages)	60	21	29
19.		Handouts of the Short Course on Deformation of Soils and Rocks and Displacement of structures - Soil and Rock structure Interaction. 4-8 November, 1996 (1165 pages)	60	26	37
20.		Handouts of the Short Course on Slope Failures and Their Remedial Measures. July 1994 (500 pages)	40	10	15
21.		Proceedings for the One-Day Short Course on Geosynthetic Applications and PLAXIS Numerical Applications. Short Course CD.	30	10	15
		<i>Sub-total</i>			

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<b>A</b>	Institution Member - US\$ 2,000.00			
<b>B</b>	Company Member - US\$ 500.00			
<b>C</b>	Individual Member:-			
	Soil Engineering - US\$ 50.00			
	Engineering Geology - US\$ 55.00			
	Rock Mechanics & Mining Engineering - US\$ 60.00			
<b>Total:</b>				

Multiple section member are entitled to the discounts:

Choose any two section - discount = US\$ 10.00

For all three sections - discount = US\$ 25.00

☐ I/We wish to for my/our Membership Subscription as ticked above. Enclosed herewith Bank Draft/Cheque No \_\_\_\_\_ issued to **Asian Institute of Technology** for the sum of US\$ \_\_\_\_\_

☐ I/We authorise you to Debit my Visa/Mastercard/American Express Account for USD \_\_\_\_\_

Credit Card No:

(CCV = Credit Card Verification Number: 3 digits for Visa/MC & 4 digits for Am.Exp.)

Last 3 or 4 CCV Digits (on the back of Credit Card):     Expiry Date:

Contact Name:			
Organization:			
Position:			
Mailing Address:			
Contact Numbers:	Tel.: <input type="text"/>	Fax: <input type="text"/>	
	Email: <input type="text"/>		

☐ I/We have sent by Telegraphic Bank Transfer the amount of USD \_\_\_\_\_ to:-

Account Name: Asian Institute of Technology

Account Number: 359 - 3 - 00001 - 2

Bank Address: Siam Commercial Bank Co., Ltd.

AIT Sub-branch, 58 Moo 9, Paholyothin Highway, Klong Luang, Pathumthani 12120, Thailand

Swift Code: SICOTHBANK

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## APPLICATION FORM / UPDATE INFORMATION

### Southeast Asian Geotechnical Society (SEAGS)

Asian Institute of Technology  
Room no. N117, SET Building,  
P.O. Box 4, Klong Luang, Pathumthani 12120  
THAILAND

Tel: (66) 02 524 5864

Fax: (66) 02 516 2126

Email: [seags@ait.ac.th](mailto:seags@ait.ac.th)

☐ New application ☐ Update information and/or change of postal address

Title: ☐ Prof. ☐ Dr. ☐ Mr. ☐ Ms. ☐ \_\_\_\_\_

First name:			
Middle name			
Last name:			
Membership no.			
Title/Position:			
Organization:			
Address:			
Telephone no.		Fax no.	
Email:			
Signature		Date:	



# SOUTHEAST ASIAN GEOTECHNICAL SOCIETY (SEAGS)



**President:** *Dr. Ooi Teik Aun*

**Editor-in-Chief of Geotechnical Engineering Journal:**  
*Prof. A.S. Balasubramaniam*

**Secretary-General:** *Dr. Noppadol Phienwej*

Secretariat at Asian Institute of Technology, Km. 42 Paholyothin Highway, Klong Luang, Pathumthani 12120, Thailand

**SEAGS**

c/o A.I.T., P.O. Box 4, Klong Luang, Pathumthani 12120, Thailand ☎ Tel: 66-02-524-5864 ☎ Fax: 66-02-524 5865 ☎ E-mail: <seags@ait.ac.th>

Internet: <http://www.seags.ait.ac.th>

## PAYMENT AND MEMBERSHIP APPLICATION FORM

☐ Prof. ☐ Dr. ☐ Mr. ☐ Ms. ☐ \_\_\_\_\_

First Name	Middle Initial	Last Name
Title/Position: _____		
Title/Position: _____		
Company/Institution: _____		
Address: _____		
_____		Fax: _____
_____		Tel: _____
Country: _____	E-mail: _____	

### PART I : FEES FOR CURRENT YEAR 2014

(Tick Box)

(Please check on in each section)

#### ❖ LIFE MEMBERSHIP FEES ARE AS FOLLOWS:-

- 1) For a person who is 60 years old and above, five times of original annual membership fee. ☐
- 2) For a person who is 55 but less than 60 years old, [(60-present age) +5] times annual regular membership fee. ☐
- 3) For a person who is less than 55 years old, ten times of the original annual membership fee. ☐

SUB-TOTAL (CURRENT YEAR) US \$

#### Multiple section member are entitled to the following discounts:

- Choose any two sections (discount) = US \$ 10
- For all three sections (discount) = US \$ 25 ( - ) LESS DISCOUNT US \$

TOTAL PAYMENT (CURRENT YEAR/LIFE MEMBER) US \$

PART II: TOTAL AMOUNT PAYABLE US \$

#### Note for Members:

- ⌘ **INSTITUTION MEMBER** (US\$2,000/year) **AND COMPANY MEMBER** (US\$500/year) The Institution Member refer to professional association or organization while the Company Member refer to private firms. Up to 10 members and up to 2 members, respectively, from Institution Member and Company Member, can enjoy SEAGS member privileges.
- ⌘ **SOIL ENGINEERING** (US\$ 50/year) SEAGS Members are entitled for the Group Memberships in International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and subscriptions of "Geotechnical Engineering Journal" Current Volume No: 44Year: 2013 (4 issues per year), and "SEAGS Newsletter" (Two issues per year - February and August) are included.
- ⌘ **ENGINEERING GEOLOGY** (US\$ 55/year) SEAGS Members are entitled for the International Association of Engineering Geology and subscriptions of "Geotechnical Engineering Journal" Current Volume No: 44 Year: 2013 (4 issues per year), and "SEAGS Newsletter" (Two issues per year - February and August) are included.
- ⌘ **ROCK MECHANICS AND MINING ENGINEERING** (US\$ 60/year) SEAGS Members are entitled for the International Society for Rock Mechanics, subscriptions of "Geotechnical Engineering Journal" Current Volume No: 44Year: 2013 (4 issues per year), and "SEAGS Newsletter" (Two issues per year - February and August) are included.

## PAYMENT METHOD

For your convenience, we have arranged ways for you to pay your membership fee, ranging from payment by personal Cheque, Banker's Draft and International Money Order to payment by Telegraphic Bank Transfer or credit card. If payment is made by credit card, please add 4% for processing fee and VAT. In summary, you can make payments follows:

**I. Cheque/ Bank draft /Money order** (Add US\$ 3 for foreign check) made payable to

### "ASIAN INSTITUTE OF TECHNOLOGY"

and delivered to the SEAGS Secretariat as stated below.

**II. Telegraphic Bank Transfer** (Please send the Bank Receipt to SEAGS Secretariat for confirmation of payments)

Account Name	:	Asian Institute of Technology
Account Number	:	359 – 3 – 00001 - 2
Bank Address	:	Siam Commercial Bank Co., Ltd., AIT Sub-branch 59 Moo 9, Paholyothin Highway, Klong Luang Pathumthani 12120, Thailand
Type of A/C	:	Current
Swift Code	:	SICOTHBK

**III. Credit Card** (amount payable + 4% US\$/Baht \_\_\_\_\_)

☐ **Visa Card**    ☐ **Master Card**    ☐ **American Express\*** Please add the Card ID for American Express.  
(Card ID is a four digit code printed on the face of the Card).

Credit Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Cardholder's Name: \_\_\_\_\_ Cardholder's Signature: \_\_\_\_\_

#### IMPORTANT: RETURN THIS APPLICATION TOGETHER WITH REMITTANCE/ PAYMENT ADVICE TO:

Secretary-General  
Southeast Asian Geotechnical  
Society c/o Asian Institute of  
Technology Room no: N117, SET  
Building  
P.O. Box 4, Klong Luang  
Pathumthani 12120, Thailand  
Fax: (66) 02 516 2126 Tel: (66) 02 524 5864  
E-mail: [seags@ait.ac.th](mailto:seags@ait.ac.th)

## TEMPLATE FOR PREPARATION OF FULL PAPER

Please visit link below to download the template for preparation of full paper

► <http://seags.ait.asia/submission-services/template-preparation-full-paper/>

## CONTRIBUTION OF ARTICLES / INFORMATION

SEAGS / AGSSEA Newsletters are published bi-annually by Southeast Asian Geotechnical Society and Association of Geotechnical Societies in Southeast Asia. Contributions on the information related to the professional advancement, member profile, and other news of SEAGS and AGSSEA members are invited.

Please direct all correspondence to:

### **Dr. Noppadol Phienwej**

Hon. Secretary - General  
Southeast Asian Geotechnical Society  
c/o Asian Institute of Technology  
Room No. 211, AIT Library  
P.O. Box: 4, Klong Luang, Pathumthani 12120,  
THAILAND  
Tel: (66) 02 524 5864; (66) 02 524 5512  
Fax: (66) 02 516 2126; (66) 02 524 5509  
E-mail: [seags@ait.ac.th](mailto:seags@ait.ac.th)  
Homepage: <http://www.seags.ait.ac.th>

or

### **Ir. Kenny Yee**

Hon. Secretary General  
Association of Geotechnical Societies in Southeast Asia  
c/o IEM Training Centre Sdn. Bhd.  
No. 33-1A, Jalan SS 52/18  
P.O. Box 224 (Jalan Sultan)  
46200 Petaling Jaya, Selangor Darul Ehsan  
MALAYSIA  
Tel: (60) 03 7958 6851  
Fax: (60) 03 79582851  
E-mail: [kenny.yeeks@gmail.com](mailto:kenny.yeeks@gmail.com)  
[choy.iemtc@gmail.com](mailto:choy.iemtc@gmail.com)  
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