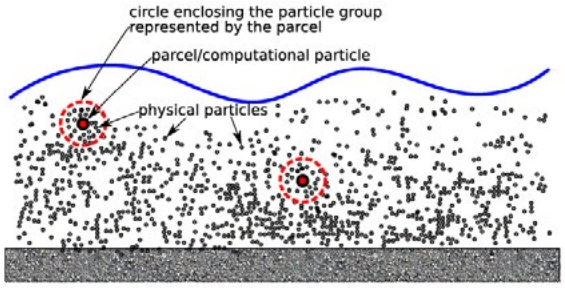
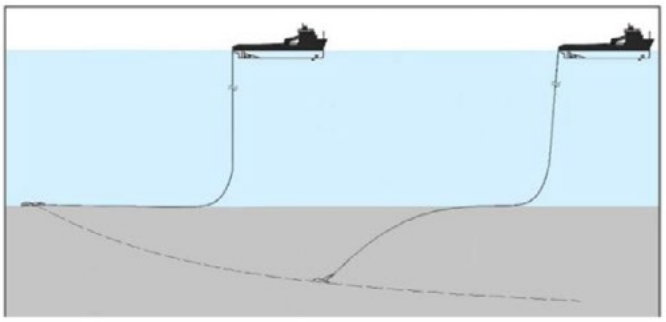
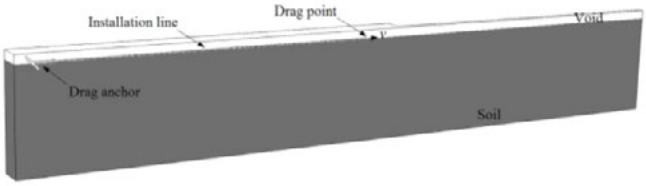
FEBRUARY 2015 NEWSLETTER

SEAGS Southeast Asian Geotechnical Society · AGSSEA Association of Geotechnical Societies in Southeast Asia

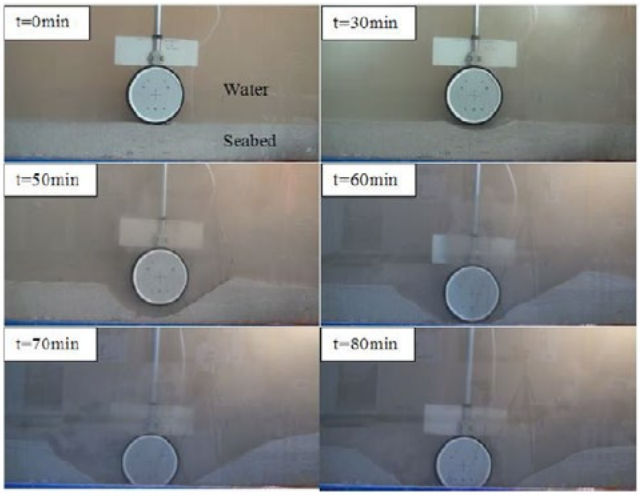


Computational representation of sand particles in the Eulerian -Lagrangian Modeling of coastal sediment transport (After Sun et al., 2014)

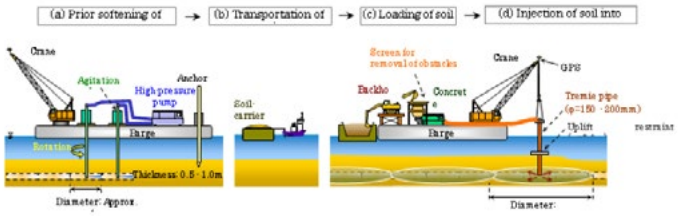




Sketch of the drag anchor installation and its FE model (After Liu and Zhao, 2014)



Seabed mobility and pipe movement modelled in the Large O-tube flume (After Luo et al., 2014)



Construction sequence for restoration of tidal flat (After Kumagai et al., 2014)

What's inside

Editors

Dr. Noppadol Phienwej
SEAGS Hon. Secretary General

Ir. Kenny Yee
AGSSEA Hon. Secretary General

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16.	**Ir. Yew Weng Yee**	Malaysia (Co-opted Member)
17.	**Prof. Jian Chu**	Singapore (Co-opted Member)
18.	**Prof. Mei-Ling Lin**	Taiwan (Co-opted Member)
19.	**Prof. Der-Wen Chang**	Taiwan (Co-opted Member)

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	Indonesian Society for Geotechnical Engineering (HATTI)	**Prof. Masyhur IRSYAM** **Dr. Pinto Tua SIMATUPANG**
	Malaysian Geotechnical Society (MGS)	**Dr. Sin-Fatt CHAN** **Ir. Yew Weng YEE**
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SEAGS/AGSSEA E-JOURNAL

SEPTEMBER 2014

SPECIAL ISSUE ON CENTRIFUGE MODELLING OF GEOTECHNICAL INFRASTRUCTURE

Editors: B.V.S. Viswanadham, Christophe Gaudin & Tom Schanz

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
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

DECEMBER 2014

SPECIAL ISSUE ON OFFSHORE AND COASTAL GEOTECHNICS

Editors: Shinji Sassa, Poul V. Lade, Lizhong Wang, Yean K. Chow, Dong S. Jeng, Christophe Gaudin & Fuping Gao

List of Papers

Recent Advances in Seabed Liquefaction and Its Implications for Marine Structures
By B. Mutlu Sumer

Eulerian–Lagrangian Modeling of Current-Induced Coastal Sand Dune Migration
By R. Sun, J. Wang, Y. Sakai and H. Xiao

Numerical Study of the Penetration Mechanism and Kinematic Behaviour of Drag Anchors Using a Coupled Eulerian-Lagrangian Approach
By Haixiao Liu and Yanbing Zhao

Cyclic Pore Pressure Generation in Silty Soils under the Action of Combined Waves and Current
By Yi-Fa Wang, Fu-Ping Gao, and Wen-Gang Qi

A Model for Predicting Pipeline Sinkage Induced by Tunnel Scour
By Chengcai Luo, Hongwei An, Liang Cheng and David White

Predicting Spudcan Extraction Resistance in Soft Clay
By Omid Kohan, Christophe Gaudin, Mark J. Cassidy, and Britta Bienen

A FE Procedure for Foundation design of Offshore Structures – Applied to Study a Potential OWT Monopile Foundation in the Korean Western Sea
By H.P. Jostad, G. Grimstad, K.H. Andersen, M. Saue, Y. Shin, and D. You

Compressibility as an Indicator of Liquefaction Potential
By M. Murat Monkul, Poul V. Lade, Ehsan Etminan, Aykut Senol

Centrifuge Modelling of the Seismic Responses of a Gently Sloped Liquefiable Sand Deposit Confined within Parallel Walls
By C.J. Lee, W.Y. Chung, and W.Y. Hung

Eulerian Finite Element Analysis for Uplift Capacity of Circular Plate Anchors in Normally Consolidated Clay
By Z. Chen, K. K. Tho, C. F. Leung and Y. K. Chow

Restoration Method of Artificial Tidal Flat by Use of Pressure Injection of Slurry Dredge Clay
By Takahiro Kumagai, Takashi Tsuchida, Changjin Ko and Hiroaki

Tsunami-Seabed-Structure Interaction from Geotechnical and Hydrodynamic Perspectives
By S. Sassa

Feature Storey on "Challenges in the Design of Tall Building Foundations"
By Harry G Poulos

THAI ISSUE MARCH 2015

SPECIAL COUNTRY ISSUE OF THAILAND – Dr. Surachat Sambhadharaksa Memorial Issue

Theme: ***Advances in Geotechnical Engineering for Infrastructure Developments in Thailand***

Editors: Suched Likitlersuang, Suksun Horpibulsuk, Suttisak Soralump, Tirawat Boonyatee Suchatvee Suwansawat, and Thanakorn Chompoorat

List of Papers

HONGKONG ISSUE 2015

SPECIAL COUNTRY ISSUE OF HONGKONG

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.

TAIWAN ISSUE 2015

SPECIAL COUNTRY ISSUE OF TAIWAN

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. Meei-Ling LIN (Editor in Charge)
Prof. Der Wen Chang 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

CHINESE TAIPEI GEOTECHNICAL SOCIETY (CTGS)

REPORT OF INTERNATIONAL DISTINGUISHED LECTURES IN TAIWAN AND THE VISIT OF DR. GUY HOULSBY

by Kuo-Hsin Yang, NTUST and Benson Hsiung, CECI

The Chinese Taipei Geotechnical Society (CTGS) invited Dr. Houlsby, Head of Department and Professor of Civil Engineering of Oxford University, Fellow of the Royal Academy of Engineering (FREng) and Fellow of the Institution of Civil Engineering (FICE) for the rerun of the 54th Rankine Lecture in Taiwan from 15th to 17th of December 2014. In June 2014, Professor Fang, Yung- Show, President of CTGS instructed Associate Professor Yang, Kuo- Hsin of National Taiwan University of Science and Technology (NTUST), Associate Professor Ge, Louis of National Taiwan University (NTU) and Dr. Benson Hsiung, Deputy Secretary of CTGS to form a task force in order to organize this event and financial support for this activity to be held and funded by the Ministry of Science and Technology of Taiwan (MOST) under the Short-term International Visiting Scholar Program.

On the 15th of December, Dr. Houlsby visited National Taiwan University (NTU), National Center for Research on Earthquake Engineering (NCREE) accompanied by Dr. Ge, Louis. Same day afternoon, Dr. Houlsby visited National Taiwan University of Science and Technology (NTUST) and delivered the Rankine Lecture, titled "Interactions in Offshore Foundation Design". The lecture was chaired by Professor Fang, Yung- Show and over 120 people had joined this event, and among the audience they are mainly university professors, students and engineers; Dr. Houlsby shared his research results on installation and performance of jack up units and design considerations of foundations for offshore wind turbines.

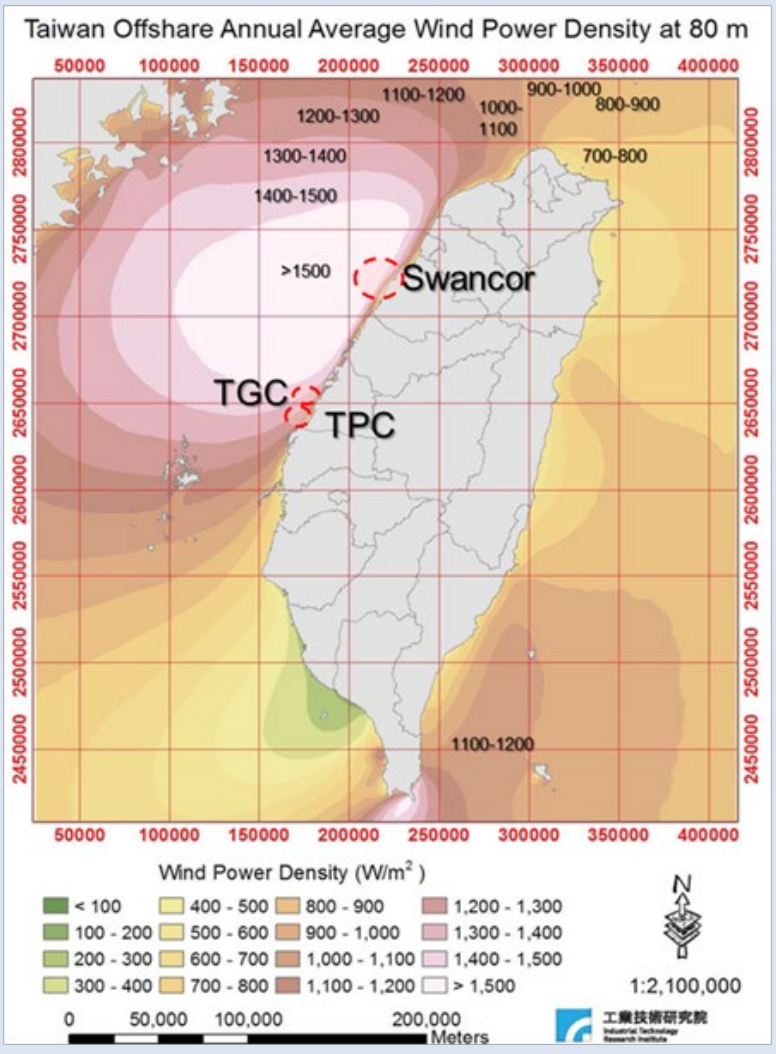
Dr. Houlsby answering questions during Q&A session

Group photo of first lecture participants at NTUST

After the Rankine lecture, a welcome dinner was held in the evening hosted by CTGS. Attendees at the dinner party include Professor Fang, Yung- Show, Dr. Ge, Louis, Dr. Yang, Kuo- Hsin, Dr. Woo, S. M., Dr. Ku, Cheng-Yu of National Taiwan Ocean University, Dr. Tsai, L. S. of CECI and Dr. Benson Hsiung.

On the second day of Dr. Houlsby's Taiwan Visit (16th of December 2014), he visited CECI Engineering Consultants., Inc. (CECI), one of the largest engineering consulting companies in Taiwan which currently has approximately 1,700 employees accompanied by Dr. Benson Hsiung. Dr. Houlsby received invitation from CECI delegates including Associate Vice President and Head of Geotechnical Engineering Department, Dr. Lee, Shun- Min, Assistant Vice President and Head of 1st Structure Engineering Department, Mr. Lin, Yew-Tsang, Mr. Lin, Chu-Kuan, Manager of Harbour Engineering Department as well as other senior engineers from Geotechnical Engineering Department and Harbour Engineering Department of CECI, which are the departments involved in recent offshore foundation designs in Taiwan. The meeting was chaired by Dr. Lee, Shun- Min and a short presentation was presented by Mr. Lin, Chu- Kuan to the guest in titled of "CECI - Offshore Wind Turbine Foundation". During the presentation, Mr. Lin indicated that there are two offshore pile tests in Taiwan which CECI involved, one in Miaoli for Swancor and one in Changhwa for TGC (refer to figure below). Several practical design issues of offshore foundations were raised and discussed during the meeting; design and analysis of wind farm offshore foundation are both Dr. Houlsby's range of study and expertise and it is indicated by Dr. Houlsby that Taiwan is the only place which he has a chance to discuss this issue in the country during his trip to Southeast Asia and Australia this time.

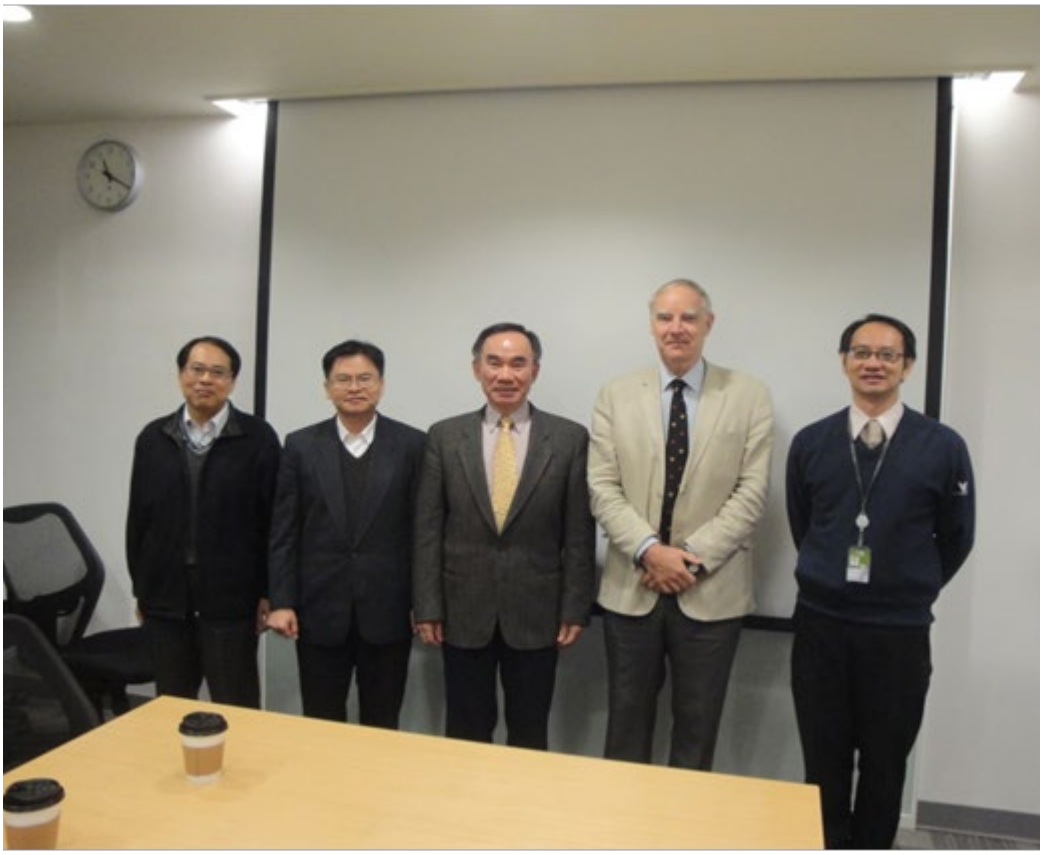
Welcome dinner party for Dr. Houlsby and CTGS members (guests in dinner in the first row from left to right: Dr. Ku, C. Y., Dr. Houlsby, Profess Fang, Y. S., Dr. Benson Hsiung and Dr. Woo, S. M.; in the 2nd row from left to right: Dr. Yang, K. H., Dr. Ge, Louis and Dr. Tsai, L. S.)



Location of pilot test sites of offshore foundation in Taiwan

After the meeting was concluded at CECI; Dr. Houlsby joined the lunch break at CECI. During the afternoon agenda, Dr. Houlsby visited Professor Falin Chen and his group in NTU to exchange ideas about application of tidal power for the offshore foundation.

Gift Exchange to Dr. Houlsby in CECI by Dr. Lee, Shun- Min (photo by Dr. Tsai, L. S.)



Group photos in CECI (from left to right: Mr. Lin, Chu- Kuan, Mr. Lin, Yew-Tsang, Dr. Lee, Shun- Min, Dr. Houlsby and Dr. Benson Hsiung; photo by Dr. Tsai, L. S.)

On 17th December 2014, Dr. Houlsby visited National Chiao-Tung University (NCTU) in Hsinchu City of Taiwan; he presented his second lecture, focused on "Foundations for Offshore Wind Turbines". This lecture was as well as hosted by Prof. Yung-Show Fang, the President of CTGS. More than 80 participants attended the presentation from universities, consulting companies, and Taipower Company. Scholars attended the lecture including Professor Huang, An- Bin, Professor Lin, C. P. and Professor Pan, Yi- Wen of NCTU and also Associate Professor Chang, W. J. of National Cheng- Kung University.

Group photo of second lecture at NCTU (attendance in the front row from left to right: Dr. Chang, W. J., Dr. Huang, A. B., Dr. Fang, Y. S., Dr. Houlsby, Dr. Lin, C. P. and Dr. Pan, Y. W.)

For the issues considered, it appears that there would be positive response reflecting on the design and research of offshore foundation and the use of the renewable energy (e.g., tidal power) in Taiwan. Experiences sharing by Dr. Houlsby are truly valuable to both academic and engineers in Taiwan. Financial support provided by Ministry of Science and Technology of Taiwan is highly appreciated.

RETURN OF THE 47th TERZAGHI LECTURE IN TAIWAN

On March 10, 2015, Prof. Kenneth H. Stokoe, II will deliver his lecture "Seismic Measurements and Geotechnical Engineering" at National Taiwan University of Science and Technology (NTUST) in Taipei, Taiwan. Dr. Kenneth H. Stokoe, II is the holder of the Jennie C. and Milton T. Graves Chair in Engineering in the Civil, Architectural and Environmental Engineering Department at the University of Texas at Austin. He has been working in the areas of field seismic measurements, dynamic laboratory measurements, and dynamic soil-structure interaction for more than 40 years. He has been instrumental in developing several small-strain field methods for in-situ shear wave velocity measurements. He has also developed two types of resonant column systems that are used to evaluate dynamic soil and rock properties in the laboratory. Over the last 12 years, Dr. Stokoe has led the development of large-scale mobile field equipment for dynamic loading of geotechnical systems, foundations and structures, an activity that has been funded by the National Science Foundation in the NEES (Network for Earthquake Engineering Simulation) program. The equipment has already led to the development of new testing methods to evaluate soil nonlinearity and liquefaction directly in the field. The honors and awards of Prof. Stokoe include election to the National Academy of Engineering, the Harold Mooney Award from the Society of Exploration Geophysicists, the C.A. Hogentogler Award from the American Society for Testing and Materials, and the H. Bolton Seed Medal and the Karl Terzaghi Distinguished Lecturer from the American Society of Civil Engineers. Dr. Stokoe is invited by Prof. Shannon H.H. Lee, NTUST and Prof. Tony Ni, NCKU to deliver the return lectures while reunion with his former UT students in Taiwan.

SPECIAL COUNTRY ISSUE OF 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 following are key dates for timely publication of the special issue:

a) Deadline for Submission of Abstract : 30 June 2014
b) Notification of Acceptance of Abstract : 30 September 2014
c) Deadline for Submission of Full Paper : 30 April 2015
d) Notification of Acceptance of Paper : 30 June 2015
e) Reviewer Feedback for Revision (if necessary) : June 2015 to September 2015
f) Deadline for Camera Ready Manuscript for Publication : 30 September 2015
g) Estimated Publication : March 2016

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

Editors:

1: Ir. Yee Thien Seng - GeoConsult, Malaysia (Coordinating Editor)
2: Ir. Kenny Yee - Menard Asia
3: Ir. Dr Chan Swee Huat - University of Nottingham Malaysia Campus
4: Ir. Dr. Ooi Lean Hock - MMC-Gamuda JV, Malaysia

Advisors:

1. Ir. Dr Ooi Teik Aun - TAO Consult, Malaysia
2. Ir. Dr Ting Wen Hui - Malaysia
3. Prof. Arumugam S. Balasubramaniam - Griffith University, Australia
4. Prof. Dennes T. Bergado – Bangkok, Thailand.
5. Ir. Dr Chan Sin Fatt - Malaysia
6. Ir. Yee Yew Weng - Keller Southeast Asia
7. Ir. Prof. Bujang Kim Huat – Universiti Putra Malaysia, Malaysia
8. Prof. Yasou Tanaka – Universiti Tunku Abdul Rahman, Malaysia
9. Ir. Liew Shaw Shong - G&P Geotechnics Sdn Bhd, Malaysia

Malaysian Geotechnical Society (MGS)

One Day Short Course on "Design & Construction of Pile Foundations" ▸ Reported by Ir. Yee Yew Weng

On 4th of July 2014, more than 120 Engineers attended a seminar at Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM entitled "Design & Construction of Pile Foundations". The seminar was jointly organised by Malaysian Geotechnical Society (MGS) and Geotechnical Engineering Technical Division, Institution of Engineers, Malaysia (GETD IEM). This short course was tailored for both designers and constructors.

The speaker, Dr. Seah Tian Ho, is a Geotechnical Expert from Alfa Geotech Company Limited, Thailand. From his vast experience gained from the industry, he introduced the participants to various foundation types and their applications in many soil types. The design aspects for foundation are explained, covering fundamental of pile capacity calculations, negative friction, and settlement analyses. Besides, he also touched on construction aspects, testing methods, and quality control procedures. Case studies were also presented for illustration.

During the question & discussion session, there were lively questions from the floor on design matters, as well as concerning construction difficulties. The seminar ended at 5.00pm with a big round of applause from the participants.

Participants attending the lecture by Dr. Seah Tian Ho

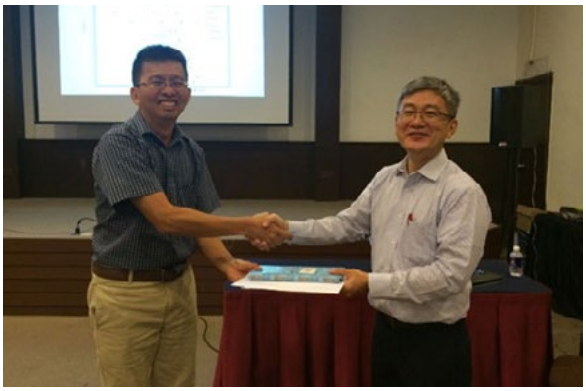
Photo of presentation of token of appreciation by Ir. Dr. Chan Sin Fatt to Dr. Seah Tian Ho

Talk on "Ground Improvement via Vacuum Consolidation Method in Vietnam" ▸ Reported by Ir. Yee Yew Weng

A talk organised jointly by GETD and the Malaysian Geotechnical Society on "Ground Improvement via Vacuum Consolidation Method in Vietnam" was presented by Dr. Seah Tian Ho, a Geotechnical Expert from Alfa Geotech Company Limited, Thailand on 5th July 2014. More than 60 Engineers attended the talk. This particular topic was chosen by Dr. Seah as in recent years, vacuum consolidation method has been extensively used in Vietnam on various types of infrastructure projects.

Dr. Seah shared his experiences in vacuum consolidation design and construction practice in Vietnam along with some examples on their performance. He explained that the main reason for adopting this method is construction cost is relatively low and comparable to conventional prefabricated vertical drain method with less surcharge fill and shorter construction time. Hauling or transporting large amount of fill has been a major problem in many projects. With stringent settlement requirements specified by the Vietnamese Government, ground improvement via vacuum consolidation has become widely used, attracting various international vacuum consolidation specialists to participate in Vietnamese projects.

Participants during talk by Dr. Seah Tian Ho



Token of appreciation presentation by Ir. Dr. Chan Swee Huat

The talk ended at 10.30am with a questions and answer session, which was actively participated, and a big round of applause from the participants.

Prof. Dr. Roger Frank, President of ISSMGE and Prof. Dr. Brian Simpson, Visit to Kuala Lumpur November 14th to 21st, 2014

Welcome Dinner for Prof. Dr. Brian Simpson Nov 14th, 2014

Prof. Dr. Brian Simpson arrived in Kuala Lumpur on Nov 14, 2014. A dinner was arranged to welcome him. The dinner was hosted by the Prof. Chin Fung Kee Memorial Lecture Advisory Board and Organizing Committee led by Ir. Dr. Ting W.H. The Managing Director of Arup (Malaysia), Ir. Wan Anuar Endut was also present.

Prof. Simpson is an Arup Fellow and Chairman of the British Standards Institution on Geotechnical Codes.

Committee Members at the dinner with Prof. Simpson in Petaling Jaya

24th Professor Chin Fung Kee Memorial Lecture Nov 15th, 2014

Prof. Dr. Brian Simpson delivered the 24th Professor Chin Fung Kee Memorial Lecture on the subject "Seeking the Code of the Ground" at Professor Chin Fung Kee Auditorium, Wisma IEM. The lecture was jointly organized by The Institution of Engineers, Malaysia and The Engineering Alumni Association of the University of Malaya, and was also supported by the Institution of Civil Engineers (Malaysian Chapter). The lecture was attended by 130 engineers and students. The main sponsor of this year's lecture was Arup Jururunding (M) Sdn. Bhd. Prof. Simpson explained that there are three issues dealing with the ground: deformation, water and safety. He explained the concepts of stress and strain, reminding the audience that strain is more important with regards to interaction with structure.

Prof. Simpson giving his lecture on "Seeking the Code of the Ground"

More than 130 engineers attended the 24th Professor Chin Fung Kee Memorial Lecture held at Wisma IEM

Welcome Lunch for Prof. Dr. Roger Frank Nov 15th, 2014

Prof. Dr. Roger Frank, the current President of ISSMGE, arrived in Kuala Lumpur on Nov 15, 2014. A lunch was arranged by the Malaysian Geotechnical Society (MGS) to welcome Prof. Frank. Committee Members of MGS present at the lunch exchange thoughts and views of MGS and possible support from ISSMGE.

Chairman of MGS, Ir. Dr. Ting W.H. presents a memento to Prof. Frank in appreciation of his visit to Malaysia

Prof. Frank explained the role that ISSMGE plays among international societies and encouraged MGS to make reference to their website.

Following lunch, the 6th MGS Committee General Meeting was held. Prof. Frank remained as the observer at the meeting.

Prof. Frank with MGS Committee Members during the welcoming lunch

KL Site Visits
Nov 16th, 2014

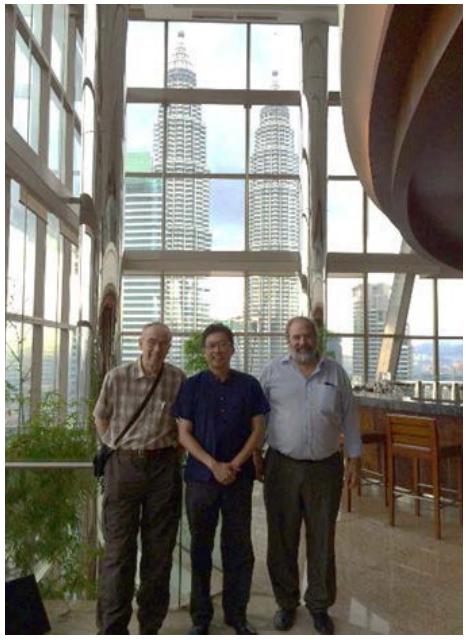
Prof. Dr. Roger Frank and Prof. Dr. Brian Simpson visited a few station boxes for the KVMRT (KL Metro) project in Kuala Lumpur. They were shown deep shafts as deep as 45m in KL Limestone.

They were encouraged to see the scale of geotechnical challenges faced by local designers and contractors. Due to the highly variable rock head and the presence of cavities, different ground engineering solutions were employed. These included the use of secant piles, heavy struts, ground anchors, cementsoil mixed walls; besides, rock-bolting, rock-grouting, guniting and cavity filling techniques.

Prof. Frank and Prof. Simpson at KVMRT site in KL

Seminar on Foundation and Retaining Wall Design
Nov 17th, 2014

Prof. Dr. Roger Frank and Prof. Dr. Brian Simpson conducted a 1-day seminar on Foundation and Retaining Wall Design at the Professor Chin Fung Kee Auditorium, Wisma IEM. The seminar was attended by about 60 engineers. Prof. Frank began the first part of his presentation on the topic, “Pressuremeter Testing and Foundation Design”. The speaker introduced how the design of shallow and deep foundations is done using data from the Menard Pressure Meter (MPM). Some experimental long duration monitoring of shallow foundations and instrumented pile tests results under different ground conditions in France were shown. Questions from the audience regarding applicability of MPM to embankments and group action of piles were raised before the session was adjourned for tea break.



Lunch near the Petronas Twin Towers

Prof. Frank giving his lecture during the Foundation & Retaining Wall Design seminar at Professor Chin Fung Kee Auditorium

The second session of the workshop on Retaining Walls under the theme of "What can go Wrong?!" was given by Prof. Simpson. Different modes of failure of retaining walls were explained and illustrated with the help of actual cases studies and with reference to Eurocode 7. The speaker pointed out that usually problem arises not because of erroneous calculation, but because something was forgotten during the design process. He reminded engineers that they should not forget fundamentals of engineering design: visiting the site; making to-scale drawings of the problem; and reviewing available data. He explained in detail the investigation of the Nicolle Highway collapse (Singapore), and emphasized the importance of communication (especially documented).

After lunch, Prof. Frank spoke on "The New French Standard for the Application of Eurocode 7 to Deep Foundations". He expounded on the design guides set out in the new French Standard for deep foundations (NF P94 – 262, 2012), where design parameters are set out using accrued data from actual pile tests. He demonstrated how Pressure Meter Test (PMT) and Cone Penetration Test (CPT) results can be used in accordance to Eurocode 7 to arrive at optimal design.

The last session of the workshop on "Retaining Structures - Getting it Right" was given by Prof. Simpson. Continuing from his morning session, Prof. Simpson suggested ways to avoid pitfalls in retaining wall design. He explained systematically how Eurocode 7 can guide the designer. He touched on the new revisions in Eurocode 7 with respect to ground anchors and reminded that the anchor goes through a "life" of constant stress changes from installation to long term performance. The audience asked many questions, especially regarding the use of numerical analysis in accordance with Eurocode 7 in the design of retaining walls. Prof. Simpson made reference to his paper presented at the 18SEAGC.

The workshop concluded with certificates of appreciation being presented to the speakers by MGS.

Prof. Simpson's Lectures on Retaining Wall design were very well received

ICE dinner in Petaling Jaya attended by the IEM President and 40 guests

Welcome Dinner for Prof. Dr. Roger Frank and Prof. Dr. Brian Simpson by ICE
Nov 17th, 2014

Ir. Dr. Ooi Teik Aun, the Malaysian representative from the Institution of Civil Engineering Malaysia (ICE) arranged a dinner to welcome Prof. Dr. Roger Frank and Prof. Dr. Brian Simpson in Petaling Jaya. The dinner was attended by Guest of Honour, the Institution of Engineers, Malaysia (IEM) President Dato' Ir. Lim C.H. and many other geotechnical practitioners.

Workshop on Eurocode 7
Nov 19th, 2014

Prof. Dr. Brian Simpson conducted a 1-day design workshop on "Eurocode 7" at the Professor Chin Fung Kee Auditorium, Wisma IEM. Prof. Simpson began by explaining the evolution of the Eurocodes over a period of more than five decades. He then proceeded to introduce the Euro Norms, with particular emphasis being on EN1990 and EN1997. He illustrated limit state design principles, partial safety factors, design values of actions and their effects which are given in EN1990, with specific applications on geotechnical design. On Eurocode 7, the different design approaches, load combinations and characteristic values were explained with the help of worked examples.

After the tea break, Prof. Simpson resumed the workshop by explaining how the Eurocodes aim to execute the design with the help of complementary documents such as the British Standards (BS), Published Documents (PD) and Non-Conflicting Complementary Information (NCCI). He then moved on to expound on Eurocode 7, Section 6 in particular the approach to the design of Shallow Foundations with the help of illustrations and worked examples before breaking for lunch.

In the third session, Prof. Simpson introduced a number of commentaries written on Eurocode 7 and also the features contained in the online facility (Eurocodes Plus). Section 7 of Eurocode 7 on Piled Foundations was explored to an appreciable depth with concise examples. During the last session, Prof. Simpson touched on Sections 3, 4, 5, 10 and 11 of Eurocode 7 Part 1 and on Eurocode 7 Part 2. He answered questions from the audience in regard to which design direction are to be followed for specific cases, model factors and effect of different load tests on design of Piled Foundations. The workshop ended with presentation of certificate of appreciation to Prof. Simpson.

Dialogue with Public Works Department (JKR) Directors
Nov 20th, 2014

MGS and IEM organized a dialogue with Directors from JKR (Geotechnical) with regards to implementation of the Eurocode 7. Dr. Mohd Nor (Chairman of meeting) informed that Dato' Dr. Aziz (Structure Section Head, absent with apologies) has announced that JKR will encourage submission of design documents for JKR projects using MS EN from Jan 1, 2015. Two years later (from Jan 1, 2017), the use of BS EN for JKR projects will be mandatory. Prof. Dr. Brian Simpson shared from his experience in the United Kingdom with regards to implementation of Eurocode 7 and gladly answered questions. The meeting ended after one and half hours of discussion and exchange of views, after the Chairman thanked Prof. Simpson.

Dialogue session with JKR Geotechnical Engineers

Discussion on implementation of Eurocode 7 in Malaysia with JKR

Workshop on Eurocode 7
Nov 21st, 2014

Prof. Dr. Brian Simpson gave a 1-day design workshop on "Eurocode 7" at Auditorium Perpustakaan, Kuala Lumpur organized by the Road and Geotechnical Engineering Branch, Public Work Department (JKR) and supported by MGS. The objectives of the workshop were to provide greater understanding of the Eurocode 7 general principles and concepts to engineers in JKR and to create awareness on the implementation of Eurocode 7.

Dr. Mohd Nor, the head of Road and Geotechnical Engineering Branch, chaired the seminar and reminded participants that submission of design using Eurocode 7 will commence in Jan 1, 2015 and become compulsory from Jan 1, 2017, for JKR projects. He encouraged JKR engineers, Consultants and Contractors to familiarize themselves with Eurocode 7 and start using the code in their everyday work.

Prof. Simpson explained the development of the Eurocodes in the UK and in Europe, over the last 30 years. He highlighted the differences between the current British Standard and the Eurocode 7, in particular, the limit state design principles. He used latest backanalysed data from UK to show that design using Eurocode 7 largely yielded equivalent results to the former design using of safety factors, but in a more consistent approach with structural designers. This helped enhance design synergy with structural design (soil-structure interaction application). Prof. Simpson encouraged users to make reference to the many commentaries now available in the market and also, the on-line Eurocode Plus. He also mentioned that there are guidelines given the suite "Execution of Special Geotechnical Works" that can be used for practical application in the field. He encouraged users to give feedback on the use of the Code as the drafters are constantly updating the Code for practical application.

Prof. Simpson presented the design workshop on Eurocode 7 organised by JKR

About 150 participants at the JKR Seminar in KL

The Workshop ended at 5pm and the Chairman thanked Prof. Simpson for coming to Malaysia to help with the implementation of Eurocode 7.

INTERNATIONAL COLLABORATION

HATTI Conference, Jakarta

The Secretary General, Ir. Yee Y.W. attended the Indonesian Geotechnical Society (HATTI) Conference on Nov 11th and 12th, 2014 in Jakarta. The conference was held at Bidakara Hotel and the topic for this year was "Geotechnical Engineering for Future Infrastructure Development in Indonesia". The conference was attended by 450 delegates. HATTI President Prof. Masyur, opened the conference and welcomed delegates from Indonesia and all over the world. Many papers were presented on Indonesian experience as well as international projects. The ISSMGE President, Prof. Dr. Roger Frank was present and gave a keynote lecture on the use of Eurocode 7 in Europe.

HATTI Conference, Jakarta

7th Geotechnical Society of Singapore Annual General Meeting cum Rankine Lecture, Singapore

GeoSS held their AGM on Dec 2nd, 2014 at NUSS Kent Ridge Guild House, Singapore. The Talk preceding the AGM was delivered by Prof. Guy Houlsby from University of Oxford, who repeated the Rankine Lecture. The AGM was chaired by incumbent chairman Dr. Ng T.G. addressing more than 150 members. The Vice President, Dr. Leong K.W. chaired the Awards Ceremony. The AGM closed with a dinner for all members present.

Repeat of the Rankine Lecture by Prof. Guy Houlsby

7th GeoSS AGM chaired by Dr. Ng T.G.

Visit of Chairman of German Geotechnical Society to Malaysia

The President of the German Geotechnical Society, Dr. W. Sondermann visited Kuala Lumpur on Dec 3rd, 2014. MGS organised a dinner which was attended by Dr. Ting W.H. (Chairman of MGS), Dr. Ooi T.A. (President of SEAGS), Ir. Yee T.S. (Chairman of IEM GETD), Dr. Leong K.W. (VP of GeoSS), Dr Chan S.F., Dr. V.R. Raju and Ir. Yee Y.W. Dr. Sondermann explained that the German Geotechnical Society has more than 2,000 members. Membership is opened to anyone who wants to support and promote geotechnical engineering. Current Society initiatives include reviewing the German Code DIN (to make it more concise) and to provide guidelines on minimum quality standard. He invited the Regional ASEAN societies to participate in the German Geotechnical Society Conference which is held every 2 years and attended by 1,000 participants.

The dinner with Dr. Sondermann

SPECIAL COUNTRY ISSUE OF SINGAPORE

Theme: ***Advances and Challenges in Underground Singapore***

We wish to solicit papers to share the advances and challenges in developing the underground space in Singapore. Possible topics are:

1. Engineering Geology and Stratigraphical Framework for Singapore;
2. Rock Cavern in Bukit Timah Formation and Jurong Formation;
3. Tunnels Beneath Existing Buildings and Piled Foundations;
4. Advances in Soil and Rock Tunnelling in Singapore;
5. Common Services Tunnels in Marina Bay;
6. Impact of Groundwater Lowering and Effect of Fissure Grouting;
7. Design and Construction of Cable Tunnel;
8. Developing Underground Space/Underground City

All submitted papers will be subjected to strict peer-review on the basis of originality, quality and relevance.

The following are key dates for timely publication of the special issue:

a) Deadline for Submission of Abstract : 30 Dec 2014
b) Notification of Acceptance of Abstract : 31 Mar 2015
c) Deadline for Submission of Full Paper : 31 Dec 2015
d) Notification of Acceptance of Paper : 31 May 2016
e) Reviewer Feedback for Revision (if necessary) : Jan 2016 to May 2016
f) Estimated Publication : Sept 2016

The abstract of the paper, in not more than 150 words, should be sent by e-mail to: **Dr. T G Ng** at ngtg@golder.com.sg. Upon acceptance of the abstract, a full-paper template shall be provided for the preparation of the full paper.

Editors:

1. Dr. Ng Tiong Guan – Golder Associates (Singapore) Pte Ltd (Coordinating Editor)
2. Dr. Wen Dazhi – Land Transport Authority, Singapore
3. Er Kiefer Chiam – Building Control Authority, Singapore
4. Assoc Prof (Adj) Zhou Yingxin – Nanyang Technological University, Singapore
5. Assoc Prof Harry Tan Siew Ann – National University of Singapore, Singapore

Advisors:

1. Prof. Yong Kwet Yew - National University of Singapore, Singapore
2. Prof. Phoon Kok Kwong – National University of Singapore, Singapore
3. Prof. Leung Chun Fai - National University of Singapore, Singapore
4. Prof. Arumugam S. Balasubramaniam - Griffith University, Australia
5. Er. Chua Tong Seng – Kiso Jiban Consultants, Singapore
6. Prof. Chu Jian - Iowa State University, USA
7. Assoc Prof. Leong Eng Choon – Nanyang Technological University, Singapore

Geotechnical Society of Singapore (GeoSS)

International Conference on Soft Ground Engineering (ICSGE2015)

3 to 4 December 2015, Singapore

International Conference on Soft Ground Engineering (ICSGE2015) is jointly organized by the Geotechnical Society of Singapore (GeoSS), the Centre for Soft Ground Engineering (CSGE) at National University of Singapore (NUS), and the Building and Construction Authority (BCA). The ICSGE2015 offers a platform for engineers and researchers to interact and share experience on geotechnical design and construction issues in soft ground.

CALL FOR PAPERS *(submission info on next page)*

The ICSGE2015 is pleased to invite original, previously-unpublished and high-quality research papers related but not limited to the following conference themes:

- Excavation and retaining structures in soft ground
- Foundations and structures on soft ground
- Ground improvements in soft soils
- Laboratory and numerical studies on soft soils
- Case studies on soft ground engineering problems

Abstracts from other themes relevant to conference are also welcome.

KEY DATES

Abstract Submission Due	15 March 2015
Notification of Abstract Acceptance Due	15 April 2015
Full Paper Submission Due	30 June 2015
Notification of Full Paper Acceptance Due	31 August 2015
Author Registration Due	31 October 2015
Conference	3-4 December 2015

All the accepted papers will be published by "Research Publishing, Singapore" and each paper in the proceedings will get DOI number assigned and deposited into CrossRef (www.crossref.org). The publication will be also be submitted to Web of Science and Scopus for possible indexing.

CONFERENCE LINKS *(for more details)*

- Home
- About Singapore
- Call for Abstracts
- Important Dates
- Committees
- Organizing Committees
- International Advisory Committee
- Registration
- Abstract Submission
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- Accommodation

ICSGE2015

International Conference on
Soft Ground Engineering

3 – 4 December 2015, Singapore

CALL FOR PAPERS

GeoSS

Building and Construction Authority

NUS National University of Singapore

ANNOUNCEMENT

International Conference on Soft Ground Engineering (ICSGE2015) is jointly organized by the Geotechnical Society of Singapore (GeoSS), the Centre for Soft Ground Engineering (CSGE) at National University of Singapore (NUS), and the Building and Construction Authority (BCA). The ICSGE2015 offers a platform for engineers and researchers to interact and share experience on geotechnical design and construction issues in soft ground.

TOPICS

- Excavation and retaining structures in soft ground
- Foundations and structures on soft ground
- Ground improvements in soft soils
- Laboratory and numerical studies on soft soils
- Case studies on soft ground engineering problems

Papers from other themes relevant to conference are also welcome.

Companies/Organizations that are interested to be conference sponsors or exhibitors may contact Conference Chair **Prof C F Leung**
(e-mail: ceelcf@nus.edu.sg)

IMPORTANT DATES

Abstract due	**15 Mar 2015**
Acceptance of abstract	**15 Apr 2015**
Full paper due	**30 Jun 2015**
Acceptance of full papers by	**31 Aug 2015**
Author registration due	**31 Oct 2015**

ABSTRACT SUBMISSION

Abstracts of about 300 words must include the title of the paper, authors' names, e-mails and affiliations. All submissions must be in English and should be made via the online submission system found at http://www.geoss.sg/icsgs2015. The required file format is Adobe Acrobat PDF or MS Word in one single file for each submission. The abstracts must be received by 15 March 2015.

All the accepted papers will be published by Research Publishing, Singapore and each paper in the proceedings will get DOI number assigned and deposited into *CrossRef* (www.crossref.org). The publication will be submitted to ISI Web of Science, Scopus and other subject related indexers for possible indexing.

Singapore — *Origin of the Lion City*

In the 13th-century Malay Annals, Sang Nila Utama, a prince from Palembang was shipwrecked and washed ashore to an island. There he saw a creature which he believed was a lion. Taking it to be a good sign, he founded a city, naming it "The Lion City" or Singapura, from the Sanskrit words "simha" (lion) and "pura" (city).

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- Yee YW

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- Yong, K Y *(Singapore)*
- Zhang, JM *(China)*
- Zhussupbekov, *Askar (Kazakhstan)*

www.geoss.sg/icsgs2015

ICSGE2015 Secretariat
Office of Professional Engineering & Executive Education (OPE^3)
NUS Faculty of Engineering
Blk E1 #05-15, Singapore 117578
Tel: (65) 6516 5113; Fax: (65) 6874 5097
Email: ICSGE2015@nus.edu.sg

VIETNAM ISSUE 2016

SPECIAL COUNTRY ISSUE OF VIETNAM

Theme: ***Ground Improvement & Piled Foundations*** *(TENTATIVE)*

Please temporarily accept the list below, which will be updated and confirmed later by our team.

Committee:
Dr. Phung Duc Long (Team Leader)
Prof. Trinh Minh Thu
Mr. Mai Trieu Quang
Dr. Pham Giao
Dr. Pham Long
Dr. Vu Hung

Advisers (to be confirmed):
Prof. Nguyen Ba Ke
Dr. Noppodol Phienwej

After discussing within our team, we suggest that the issue theme "Ground Improvement & Piled Foundations" could be also changed later.

INDONESIAN ISSUE 2016

SPECIAL COUNTRY ISSUE OF INDONESIA

1. Case histories on geotechnical earthquake engineering and landslides since these have been major events in Indonesia and many interesting studies have been conducted
2. Case histories on Geotechnical Construction Failures on Soft Soils and Development of Ground Improvement Techniques. The content will also cover problematic soils in Indonesia and neighbouring countries.
3. Advancement and Innovation on Pile Foundation Technology in Indonesia

Committee in Charge:
Dr. Hasbullah NAWIR
Professor Paulus P. Rahardjo
Spr Wardani
Gouw TL
Prof. Harianto Rahardjo
Masyhur Irsyam
Pintor Tua Simatupang

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

Time Lines to be announced

Vice President for Asia

Professor Ikuo Towhata

Department of Civil Engineering University of Tokyo

7-3-1, Hongo Bunkyo-Ku

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

Journal of Geotechnical Engineering

JOURNAL ISSUES 2017

MARCH 2017 Issue

Theme:

Climate Change, Environmental Geotechnics and Geo-hazards

Editors: Prof. Kazuya Yasuhara
Prof. Dennes Bergado
Prof. D.N.Singh, IIT Bombay
Prof. Malek Bouazza
Prof. Ikuo Towhata
Prof. Hideo Komine

Announcement of call for papers for CC&GE Issue, in 2017

Subject: Announcement and invitation of call for abstracts and papers contributed to the CC & GE Issue of SEAGS-AGSSEA Journal (2017)

Theme: Climate Change & Geotechnical Engineering

Topics: Climate change-triggered disastrous events and environmental impacts related to geotechnical engineering (CC & GE in abbreviation), such as:

(1) Case histories on climate change-related geo-disasters and environmental impacts, particularly in Asia-Pacific regions.

(2) Clarification of mechanism of climate change-related geo-disasters and environmental impacts using numerical analysis, laboratory experiments and field investigation

(3) Risk management of climate change-related geo-disasters and environmental impacts

(4) Application of ICT and innovative techniques for climate change-related geo-disasters and environmental impacts

(5) Countermeasures and adaptive measures against climate change-related geo-disasters and environmental impacts including mitigation measures

For this CC & GE Issue about 14 papers are envisaged with consideration of balances among topics, expertise and countries.

The following is the tentative schedule for this issue:

(1) Call for paper abstracts (September 2014 – March 2015)

(2) Full paper submission (on or before December 2015)

(3) Revision to and finalization of papers (before 30 August 2016)

(4) Manuscripts ready for publication (23 December 2016)

(5) CC & GE Issue appears in 2017

Click to download sample article for abstract in this link:
http://seags.ait.asia/wordpress/wp-content/uploads/CCGE-Issue-2017_sample-article-for-abstract.pdf

JUNE 2017 Issue

Theme:

Geotechnical Advances in Underground Transport

Editors: Robert Mair
Prof. K Y. Yong
Prof. Mitsutaka Sugimoto
Dr. SR Kim
Dr.Richard Hwang
Dr. John Endicott
Prof. Chang Yu Ou
Prof. Suchatvee Suwansawat
Prof. Hirokazu Akagi

Announcement of call for papers, Techniques special issue in June 2017

Subject: Announcement and invitation of call for abstracts and papers contributed to the issue of SEAGS-AGSSEA Journal in June 2017

Theme: Geotechnical Advances in Underground Transport

Topics: Geotechnical Advances in Underground Transport

1) Major underground transport systems completed or on-going in the 21st Century and their geological features;
2) New tunnelling techniques and performance;
3) Deep excavations and ground response to excavations;
4) Ground improvement techniques and applications;
5) Dewatering and measures dealing with groundwater;
6) Building protection and risk management

About 12 ~ 14 papers are envisaged with consideration of balances among topics, expertise and countries.

The following is the tentative schedule for this issue:

(1) Call for paper abstracts (January 2015 – June 2015)
(2) Full paper submission (on or before March 2016)
(3) Revision to and finalization of papers (before 30 November 2016)
(4) Manuscripts ready for publication (March 2017)
(5) This special Issue appears in June 2017

Journal is an open access, specialized, peer-reviewed, Journal for SEAGS: (Southeast Asian Geotechnical Society) & AGSSEA. (Association of Geotechnical Societies in South East Asia) that focuses on research, development and application within the fields of geotechnical engineering and technology. Published four times per year, it tries to give its contribution for enhancement of research studies.

- Contributions must be original, not previously or simultaneously published elsewhere.
- Accepted papers are available freely with full-text content upon receiving the final versions, and will be indexed at major academic databases.
- Papers should be written in English.
- The acceptance number of papers is generally less than 15.
- All articles are sent for blind peer review, with a fast and without delay review procedure (within approximately one month of submission).
- Submitted papers should follow the format of the sample article attached.
- Submissions are accepted via e-mail: richard.hwang@maaconsultants.com

SEPTEMBER 2017 Issue

Theme:

Soil Models in Geotechnical Analyses

Editors: Prof. Akira Murakami (Kyoto Univ.), murakami.akira.5u@kyoto-u.ac.jp
Prof. Poul Lade (The Catholic Univ. of America), lade@cua.edu
Prof. Buddhima. Indraratna (Univ. of Wollongong), indra@uow.edu.au
Prof. Jian-Hua Yin (The Hong Kong Polytechnic Univ.), cejhyin@polyu.edu.hk
Prof. Chu Jian (Nanyang Tech. Univ.), CJCHU@ntu.edu.sg
Prof. Suched Likitlersuang (Chulalongkorn Univ.), fceslk@eng.chula.ac.th

Announcement and invitation of call for abstracts and papers contributed to Special Issue on 'Soil Models in Geotechnical Analyses' of SEAGS-AGSSEA Journal in September 2017

Subject:

Announcement and invitation of call for abstracts and papers contributed to Special Issue on 'Soil Models in Geotechnical Analyses' of SEAGS-AGSSEA Journal in September 2017

Topics:

1) Constitutive modeling of materials including deformation, damage and failure;
2) Verification of existing and new constitutive models;
3) Development and usage of new materials;
4) Parameter identification and inverse analyses;
5) Micro-macro correlation of material response;
6) New techniques for material and site characterization and so on.

Tentative schedule:

(1) Call for paper abstracts (March 2016 – August 2016)
(2) Full paper submission (on or before October 2016)
(3) Revision to and finalization of papers (March 2017)
(4) Manuscripts ready for publication (May 2017)
(5) Special Issue appears in September 2017

Journal is an open access, specialized, peer-reviewed, Journal for SEAGS: (Southeast Asian Geotechnical Society) & AGSSEA. (Association of Geotechnical Societies in South East Asia) that focuses on research, development and application within the fields of geotechnical engineering and technology. Published four times per year, it tries to give its contribution for enhancement of research studies.

- Contributions must be original, not previously or simultaneously published elsewhere.
- Accepted papers are available freely with full-text content upon receiving the final versions, and will be indexed at major academic databases.
- Papers should be written in English.
- The acceptance number of papers is generally less than 15.
- All articles are sent for blind peer review, with a fast and without delay review procedure (within approximately one month of submission).
- Submitted papers should follow the format of the sample article attached.
- Submissions are accepted via e-mail.

Click to download sample article for abstract in this link:
http://seags.ait.asia/wordpress/wp-content/uploads/Sept-Issue-2017_sample-article-for-abstract.pdf

DECEMBER 2017 Issue

Theme:
Research & Practice in Foundations & Deep Ground Improvement Technique

Editors: Prof. Tatsunori Matsumoto
Prof. Masaki Kitazume
Prof. San Shyan Lin
Prof. Der Wen Chang
Prof. Yoshiaki Kikuchi
Prof. Harry Poulos

Announcement on call for papers, Research and Practice in Foundations and Deep Ground Improvement Techniques special issue in December 2017

Subject: Announcement and invitation of call for abstracts and papers contributed to the Research & Practice in Foundations & Deep Ground Improvement Techniques Issue of SEAGS-AGSSEA Journal (2017)

Theme: Research & Practice in Foundations & Deep Ground Improvement Techniques

Topics: Research & Practice in Foundations & Deep Ground Improvement Techniques, such as:

1) New pile testing techniques and/or interpretation methods;
2) New technology or application of deep ground improvement;
3) Performance Based Design and/or Analysis of Deep Foundations;
4) Technologies of Deep Foundations with Energy Concerns;
5) Design and Analysis of Pile-Raft Foundations;
6) Physical modelling (Centrifuge and/or 1-g model test) of Deep Foundations & Deep Ground Improvement;
7) Field monitoring of Deep Foundations & Deep Ground Improvement.

For this Research & Practice in Foundations & Deep Ground Improvement Techniques Issue about 12 ~ 14 papers are envisaged with consideration of balances among topics, expertise and countries.

The following is the tentative schedule for this issue:

(1) Call for paper abstracts (January 2015 – August 2015)
(2) Full paper submission (on or before June 2016)
(3) Revision to and finalization of papers (before 31 March 2016)
(4) Manuscripts ready for publication (March 2017)
(5) This special Issue appears in 2017

Journal is an open access, specialized, peer-reviewed, Journal for SEAGS: (Southeast Asian Geotechnical Society) & AGSSEA. (Association of Geotechnical Societies in South East Asia) that focuses on research, development and application within the fields of geotechnical engineering and technology. Published four times per year, it tries to give its contribution for enhancement of research studies.

- Contributions must be original, not previously or simultaneously published elsewhere.
- Accepted papers are available freely with full-text content upon receiving the final versions, and will be indexed at major academic databases.
- Papers should be written in English.
- The acceptance number of papers is generally less than 15.
- All articles are sent for blind peer review, with a fast and without delay review procedure (within approximately one month of submission).
- Submitted papers should follow the format of the sample article attached.
- Submissions are accepted via e-mail: matsumoto@se.kanazawa-u.ac.jp ; dwchang@mail.tku.edu.tw ; or sslin46@gmail.com

SEAGS-AGSSEA Journal: Details

This note is in four parts:

Part I: Editors 1970-2014
Part II: Prefaces 2011 to 2014
Part III: Table of Contents 2011 to 2014
Part IV: Biodata: Guest Editors 2011-2014

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1.1: March: Ground Improvement
- *Prof. Jie Han*

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

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

1.4: December: Soil Behaviour
- *Dr. Dariusz Wanatowski*

2: Year 2012

2.1: March: Unsaturated Soil Behaviour
- *Prof. Charles W W Ng*
- *Dr. Apiniti Jotisankasa*

2.2: June: Geotechnical Earthquake Engineering
- *Prof. Ikuo Towhata*
- *Prof. Der Wen Chang*
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- *Prof. Malek Bouazza*

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- *Tom Lunne*
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- *Dr.Ooi Teik Aun*

3.2: Modelling Soil Behaviour
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- *Prof. Angelo Amorosi*
- *Prof. Muhunthan Balasingham*
- *Dr. Dariusz Wanatowski*
- *Dr Hossam Abuel-Naga*
- *Dr. Suched Likitlersuang*

3.3: Geotechnical Analyses
- *Prof. Fusao Oka*
- *Prof. Akira Murakami*
- *Prof. Helmut F. Schweiger*
- *Prof. Charles W.W. Ng*

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

4: Year 2014

4.1: March: Geotechnics for Advancing Transport Infrastructures
- *Prof. Buddhima Indraratna*
- *Dr. Cholachat Rujikiatkamjorn*

4.2: June: Deep Foundations
- *Prof. Tatsunori Matsumoto*
- *Prof. Der-Wen Chang*
- *Prof. Dr.-Ing. Jürgen Grabe*

4.3: Centrifugal Model Testing & Geotechnical Engineering Practice
- *Prof. B.V.S. Viswanadham*
- *Prof. Colin Leong*
- *Prof. Christophe Gaudin*
- *Prof. Tom Schanz*
- *Prof. Charles W.W. Ng*

4.4: December : Offshore & Coastal Geotechnics
- *Dr. Shinji Sassa*
- *Dr. Ole Hededal*
- *Prof. Dong Sheng*
- *Prof. William Van Impe*

B: PAST EDITORS

Dr. E.W. Brand (1970 – 1973)

Dr. E.W. Brand, Prof. A.S. Balasubramaniam (1974 – 1976)

Dr. E.W. Brand, Dr. V.K. Campbell (1977 – 1978)

Dr. V.K. Campbell (1978 – 1980)

Mr. J.S. Younger (1980 – 1985)

Mr. D.R. Greenway (1986 – 1987)

Mr. P.G.D. Whiteside (1988 – 1989)

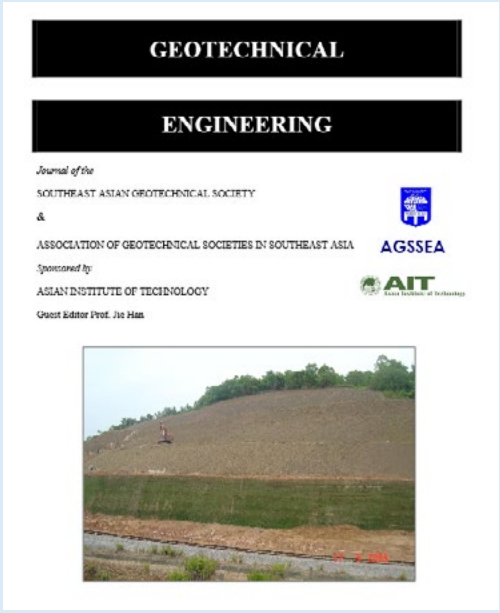
Mr. C.A.M. Franks (1990 – 1995)

Prof. D.T. Bergado (1996 – 2001)

Dr. N. Phienwej (2002 -2010)

PART II: PREFACES (2011-2014)

MARCH 2011: Ground Improvement



MARCH 2011 *JOURNAL ISSUE*

Since the early use of fabrics to reinforce roads by the South Carolina Highway Department in the USA in 1920s, geosynthetics have been successfully adopted as reinforcements in many civil engineering applications, ranging from slopes, earth retaining walls, embankments, foundations, landfills, roads, earth structures for river and coastal protection, etc. This special issue focusing on geosynthetic-reinforced earth structures contains several technical papers contributed by a combination of internationally well-known experts and young, energetic researchers and/or engineers in these areas from China, Japan, Malaysia, Singapore, and the United States. They present past successes, recent developments, and/or issues in the design, modeling/analysis, construction, and performance evaluation of geosynthetic-reinforced earth structures.

Prof. Dov Leshchinsky at the University of Delaware in the USA, an internationally well-known expert in geosynthetics, slopes, and walls, offers his broad and in-depth views on some issues related to the design of mechanically-stabilized earth walls and slopes. Issues include discussion on the artificial separation between reinforced walls and slopes, deficient seismic design of reinforced earth structures, and difficulties associated with feedback from field data and its implications on design of reinforced earth walls. Prof. Leshchinsky offers the solutions to these issues including the adoption of reinforced slope design method for reinforced walls and reduced seismic coefficients with limit equilibrium analysis for seismic design of reinforced earth structures. Prof. Leshchinsky emphasizes the importance of following the principles of statics in the development of design methods from field data.

Dr. Teik Aun Ooi at TAO Consultant and Mr. C.H. Tee at Mega Geoproducts and Services have many years' practical experience in design and construction of geosynthetic-reinforced earth walls and steep slopes in Malaysia. They share their rich experience and knowledge accumulated through years of practice in their technical paper. They present various case histories of slope repair and the role of geosynthetic reinforcement in the slope reconstruction and performance.

Prof. Jinchun Chai at Saga University in Japan has developed a number of design methods well adopted in practice for ground improvement. In his paper included in this special issue, Prof. Chai proposed a method for predicting undrained shear strength of saturated clayey backfill in an embankment reinforced by dual function (reinforcement

and drainage) geocomposites, which is used to calculate the factor of safety of the reinforced embankment. The proposed method considers the effects of discharge capacity of the geocomposite, spacing between geocomposite layers, construction speed, and the coefficient of consolidation of the backfill.

Dr. Jie Huang, an assistant professor at the University of Texas at San Antonia, Dr. Anil Bhandari, a project manager at Terracon (a major geotechnical firm in the USA), and Dr. Xiaoming Yang, a research associate at Louisiana Transportation Research Center, are three active young researchers and engineers in geotechnical engineering. They jointly contribute a technical paper to review and summarize the numerical modeling techniques (FEM, FDM, and DEM) to model and analyze geosynthetic-reinforced earth structures including MSE walls, reinforced slopes and embankments, and reinforced unpaved and paved roads.

Prof. Jian Chu at Nanyang Technological University in Singapore and Prof. Shuwang Yan at Tianjin University in China are internationally well-recognized for their research in ground improvement, coastal protection, and land reclamation. Together with Prof. Chu's student, Wei Guo, they contribute a technical paper on recent advances in the research and practice using geosynthetic tubes and geosynthetic mats for the construction of river and coastal structures.

Prof. Yunmin Chen at Zhejiang University is a leading geotechnical engineering researcher in China. Prof. Chen and his colleagues have been involved in the research and consulting of several major landfills in China. Their technical paper addresses the issues related to the performance-based design of geosynthetic liner systems in landfills, including the breakthrough time, interface sliding failure, and liner tensile failure.

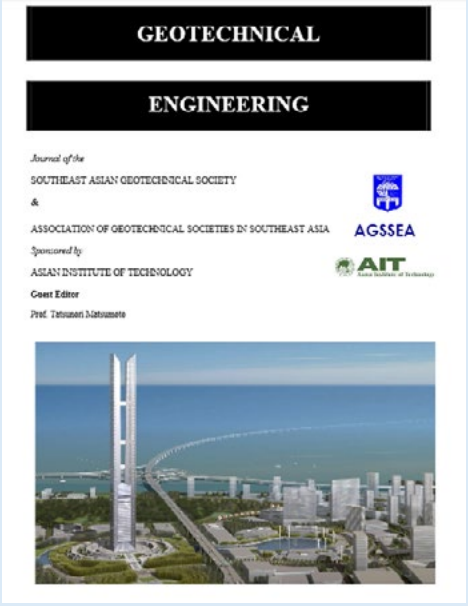
Prof. Jie Han at the University of Kansas in the USA is the guest editor of this special issue. He, his former graduate student, Mr. Yuze Zhang, and his colleague, Prof. Robert L. Parsons contribute a technical paper on laboratory evaluation of geosynthetic-soil confinement using a wheel tracking device. Their paper discusses a newly-developed performance-based laboratory test method to evaluate geosynthetic-soil confinement and distinguish the benefits of rut reduction among different types of geosynthetics and base course materials.

JUNE 2011: Piled Foundation

The **Southeast Asian Geotechnical Society** (**SEAGS**) was formed over 40 years ago and has been an important factor in the growth of geotechnical engineering in the Southeast Asian region. SEAGS has made a very important contribution to the dissemination of geotechnical knowledge by publishing the journal Geotechnical Engineering, which first appeared in 1970. A number of influential papers have appeared in this journal, generally dealing with regional issues and case histories but also with geotechnical problems on a global scale.

In recent years, several of the original countries comprising SEAGS have grown to such an extent that they have formed their own national geotechnical groups. A number of these countries have formed the **Association of Geotechnical Societies of South East Asia** (AGSSEA) which now interact and cooperate with SEAGS. Currently, the Presidents of SEAGS and AGSSEA are **Dr. Ooi Tiek Aun** and **Professor K.Y. Yong** respectively, while the Secretaries General are **Professor Dennes Bergado** and **Mr. Kenny Yee**.

SEAGS and AGSSEA now cooperate in producing Geotechnical Engineering, and in order to respond to the growth of geotechnics in the region, the editors have decided to re-focus the journal and to produce a series of theme issues that deal with specific areas of geotechnical engineering.



JUNE 2011 *JOURNAL ISSUE*

This present issue deals with deep foundations, a subject that has been of abiding interest to engineering professionals in the region over many years. Indeed, with the remarkable growth in the number and height of structures, studies of deep foundations and their behaviour under various scenarios have become a matter not only of research interest, but also of intense practical and economic interest. It is being recognised increasingly that traditional methods

of deep foundation design that may have been adequate in past times may not be suitable for today's circumstances, where much larger loads may be acting on the piles and where piles may be subjected not only to direct structural loads but to loads imposed by ground movements arising from such sources as earthquakes, excavations and tunnel construction. It is also being recognised that in such cases, the sources of movement may also change the stress state in the ground so that the ground conditions during and after construction may be different from those encountered during the site investigation. Such differences need to be recognised and allowed for in the design process. It must also be recognised that there may well be "side effects" that arise from construction-related ground movements that may adversely affect existing foundation.

A further trend, and one that is to be applauded, is the increasing use of pile load testing, not only as a means of verifying the capacity and integrity of the as-constructed piles, but also as an adjunct to pile design. Many of the elements of uncertainty that are present in pile design may be reduced by carrying out tests on trial piles as part of the design process. However, in such cases, it is essential to understand the limitations of the test procedure being and to interpret the test results accordingly, taking into account the test configuration and test setup, the means of applying load and supplying reaction, and the means of measurement of the pile responses. In particular, care should be taken to allow for residual stresses that exist in the pile prior to testing, as failure to do so may lead to misinterpretation of the contributions to the pile resistance of the shaft and the base.

The nine papers in this issue cover a broad range of topics in deep foundations, including load testing (3 papers), analysis and design issues (2 papers), fundamental understanding of pipe pile behaviour (1 paper), piled raft foundations (2 papers), and two case histories, one involving the foundations for the Taipei 101 tower, formerly the world's tallest building, and the other a proposed 151 storey tower in South Korea.

Professor Tatsunori Matsumoto from Japan is the editor for this issue and has been instrumental in attracting the papers that appear here, and especially, in securing a number of papers from Japan. He has done a fine job in coaxing and encouraging the authors of the papers, arranging for the review of the papers, and editing the final manuscripts. He deserves the thanks of the journal readership for his untiring efforts. He has been assisted by **Professor Der-Wen Chang** of Taiwan, and by **Professor Balasubramaniam** (Bala), from Australia, whose links with SEAGS extend over many years.

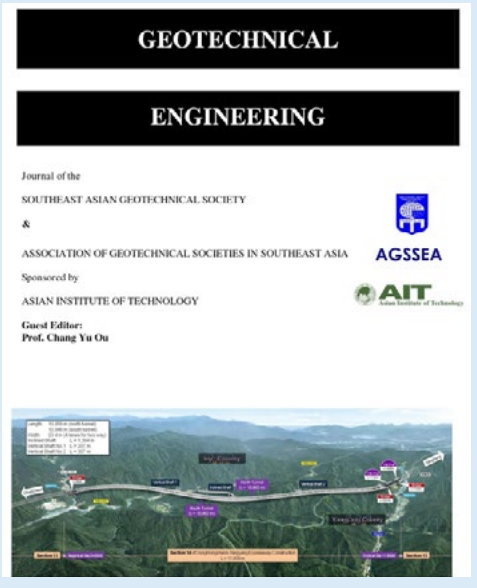
It is to be hoped that the readers of this issue will benefit from the information and knowledge that is contained within the papers, and that they may find occasion to apply this knowledge in their own professional practice.

H.G. Poulos

SEPTEMBER 2011: Excavations & Tunnels

Asia currently is the most fast growing area in economy. Many high rise buildings and infrastructures including subway tunnels in urban areas and mountain tunnels connecting cities are under construction. Some of them are extraordinary in terms of scale and construction difficulty. The strength and stress-strain behavior of soils are seriously considered and monitoring systems are comprehensively implemented in projects. Therefore, as a guest editor of this special issue featuring the urban geotechnical construction, I am very happy to have the papers from distinguished investigators from China, Korea, Singapore and Taiwan. Many thanks for their contribution.

This special issue covers some important aspects of urban geotechnical construction. One of the biggest issues for underground construction in a densely built-up urban environment is the potentially adverse impact on buildings adjacent to deep excavations. Thanks for **Mr. Goh** and **Prof. Mair** who present the influence of building stiffness in the assessment of adjacent building safety. Excavation instability sometimes causes catastrophic collapse of the projects. **Prof. Zheng** and his group introduce the concept of redundancy into the design of retaining structure and develop a design methodology based on the concept of



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redundancy. **Prof. Jeng** and his colleagues give a very interesting case study of the largest excavation in Shanghai soft clay. In urban areas, excavations may have a significant impact on the stress and deformation of existing tunnels. Several construction techniques have been developed to reduce the movement of excavations in soft clay. **Prof. Wang** and his group made a comprehensive study of the effectiveness of these different methods and the interactive impact of the two adjacent excavations in Shanghai soft clay on the crossing tunnel using the numerical method. In the past studies of ground movement induced by deep excavations mostly focus on those due to main excavation, for example, excavation of soil, dewatering, strut installation and demolish and so on. Ground movement induced by diaphragm wall construction is seldom taken into account. **Prof. Ou** and his group present the behavior of ground movement induced by construction of diaphragm wall based on the monitoring results of the construction of the Taipei metro system. The envelope due to diaphragm wall construction is established in the paper. In the traditional pneumatic caissons, workers have to conduct excavation inside the working chamber under high pressure, temperature, and humidity while in the new pneumatic caissons, soil excavation and removal are completed by remotely controlled equipments. **Prof. Peng** and his colleagues report the monitored results for the new pneumatic caisson conducted in Shanghai soft clay and numerical approach considering the soil disturbance during construction. The agreement between field monitoring and numerical analysis results are discussed. In densely popular cities, construction of underground tunnels should be kept minimal impact on existing buildings. Instead of shield machines, use of hydraulic jacks to push pipes through the ground is an economic and minimal impact on the existing buildings. **Prof. Ding** and his co-workers introduce the technologies of pipe-jacking methods to reach micro disturbance to existing buildings. Inje Tunnel, an 11 km-long twin-tunnel, still under construction, will be the longest road tunnel in Korea. **Director Cho** introduces the details of the tunnel design, including geotechnical consideration, cross-section of the excavation, reinforcement, drainage, ventilation operation, safety facility corresponding with a tunnel fire, and portal planning.

Finally, I would like thank all of the reviewers, who gave excellent and in-depth reviews on the papers. Thanks to the editor-in-chief, **Prof. Balasubramaniam**, for his gracious invitation as the guest editor of this special issue.

Prof. Chang Yu Ou
Guest Editor

DECEMBER 2011: Soil Behaviour

Despite a remarkable research progress made in last few decades in various aspects of geomechanics, understanding of soil as an engineering material is still a very challenging task. Consequently, our ability to model and predict the behaviour of geomeaterials in slopes, foundations, and earth structures is still limited. On the other hand, an enormous improvement in technical capabilities of soil mechanics laboratories in last few years allows researchers and engineers to investigate soil behaviour with greatest ever accuracy. As a result, advanced laboratory soil testing is more frequently used in geotechnical practice. For example, an accurate measurement of small strain stiffness is essential in the analysis of many geotechnical problems.

This Special Issue covers some very interesting aspects of soil behaviour and includes papers from Poland, Singapore, United States, Greece, Japan, Hong Kong, United Kingdom and Hungary. The Issue starts with the contribution of **Prof. Sawicki** from the Institute of Hydro-Engineering in Poland. His paper discusses possible links between pre-failure instability behaviour of sand and plastic dilation. The analysis presented by Prof. Sawicki is supported by high-quality experimental data obtained from triaxial compression tests. The second paper is written by **Dr Meng** from the University of Wollollong in Australia and **Prof. Chu** from Nanyang Technological University, who has recently taken up the Chair in Geotechnical Engineering at the Iowa State University in the United States. The authors present an experimental study on strength anisotropy of the intact residual soil of Bukit Timah granite in Singapore. The results obtained from K_o consolidated undrained triaxial and simple shear tests carried out on specimens cut

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from large blocks of undisturbed samples are used to discuss the effects of inherent and induced anisotropy on the strength parameters of the residual soil in Singapore. **Prof. Lade** from the Catholic University of America in the United States and **Dr Wang**, his former PhD student at the Johns Hopkins University, present their work on shear banding in sand. The authors discuss several series of true triaxial tests performed on cubical and rectangular prismatic specimens of Santa Monica Beach sand. The analysis carried out by Prof. Lade and Dr Wang indicates that the occurrence of the critical conditions for shear banding in sand may be delayed in short specimens. The authors suggest that true triaxial experiments should be performed on tall specimens in which the shear banding occurs freely and strain softening behaviour is more pronounced. A very interesting study on behavioural patterns of fine sands is presented by **Prof. Georgiannou** from the National Technical University of Athens in Greece. In her paper, Prof. Georgiannou presents several series of hollow cylinder, triaxial compression and extension tests. She discuss the influence of various parameters such as particle shape, grading, addition of fines, consolidation history, stress level and loading conditions on the undrained behaviour of sand. Next paper of the Issue is written by **Prof. Shibuya** from Kobe University in Japan and his former researcher, **Dr Jung**, currently with the Korean Institute of Construction Technology. They discuss the effects of strain rate on undrained shear behaviour of seabed Holocene clay from the Kobe airport based on a few series of triaxial compression and extension tests carried out with different shearing rates. **Prof. Yin** and **Mr Tong** from the Hong Kong Polytechnic University together with **Prof. Zhu** from Wuhan University of Technology in China present an experimental investigation on sedimentation and self-weight consolidation behaviour of marine deposits from Hong Kong carried out in settling columns. **Dr Ibraim** and his colleagues from the Bristol University in the United Kingdom present their new hollow cylinder torsional apparatus equipped with an accurate strain measurement system. The authors demonstrate that their hollow cylinder apparatus is capable of measuring soil's stiffness in a wide range of strains and stresses. Two of my PhD students at the University of Nottingham and I contribute to the Special Issue with a paper on laboratory investigation of fibre reinforced sand at high pressures. We discuss results of drained compressions tests carried out in a high pressure triaxial cell and demonstrate that the effectiveness of fibre reinforcement at high confining pressures is very limited. Finally, **Prof. Imre** from Szent Istvan University and Budapest University of Technology and Economics in Hungary with her colleagues presents a technical note discussing the ratio of the maximum and minimum dry density for sands.

As a Guest Editor of this Issue I would like to thank all the authors for their valuable contributions. I would also like to thank the Editorial Team of the Journal for inviting me to edit this Special Issue. Last but not least, I would like to thank all the reviewers for assessing the papers in a timely and thorough manner. Their excellent assistance is greatly appreciated.

Dariusz Wanatowski,
Guest Editor

MARCH 2012: Unsaturated Soils

Most of the Earth's land surface comprises unsaturated geomaterials, which often pose geotechnical hazards such as rainfall-induced landslides to societies and serviceability problems to high speed rail links founded on collapsible and expansive unsaturated soils. However, the vast majority of text books, conference proceedings and journal articles investigate mainly saturated soil mechanics, which is only a special case of unsaturated soil mechanics. With intensive building and construction activities in countries like China, India, Central and South America and Africa on foundation soils that are often unsaturated, geotechnical engineers can no longer ignore the complication of unsaturated soils and the challenges they present. In developed countries, many geo-environmental problems such as nuclear waste disposal also involve unsaturated soil mechanics heavily. Research on unsaturated soils has therefore been a major focus in many universities and research institutions over the last two decades.

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This special issue contains eight keynote papers selected from the 5th Asia-Pacific Conference on Unsaturated Soils held in Pattaya, Thailand, between 29 February and 2 March 2012. The series of Asia-Pacific Conferences on Unsaturated Soils began in Singapore in 2000. With the continued support of the Technical Committee on Unsaturated Soils (TC106) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), the 2nd, 3rd, and 4th conferences were held in 2003 in Osaka, Japan, in 2007 in Nanjing, China and in 2009 in Newcastle, Australia, respectively. These conferences have proven to be a fruitful forum where researchers and practitioners in the region and beyond gathered enthusiastically to present their latest research findings and development and to exchange ideas on the subject.

Guest Editors
Charles W.W. Ng
Apiniti Jotisankasa

JUNE 2012: Geotechnical Earthquake Engineering

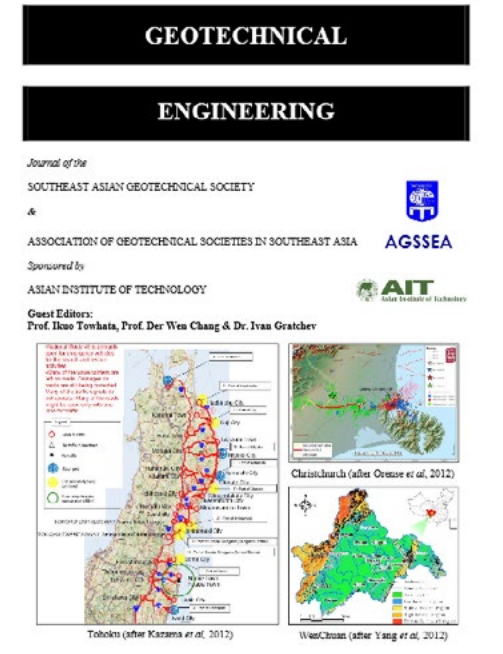
I would like to express my deep respect to the geotechnical colleagues in Southeast Asia who have been publishing this prestigious journal for more than 40 years. It is very important that a regional engineering community maintains its own place of publication and is able to freely express its own idea of importance and value. I wish this journal to continue its contribution for a long time from now on.

When I was asked in 2011 to take care of a special issue on geotechnical earthquake engineering, I felt reluctant. This was because of my domestic situations after the gigantic earthquake on March 11, 2011, after which I have been working on such a variety of urgent issues as liquefaction vulnerability of subsoil, causative mechanisms of river levee damage, and post-earthquake public appeal among many others. Then fortunately two capable people started to jointly work with me for all the aspects of the publication of this issue. Upon this occasion, I would like to express my sincere appreciation to my Co-Guest Editors, **Prof. Der Wen Chang** and **Dr. Ivan Gratchev** without whom the editing and publication of this issue will not be impossible.

The mitigation of natural disaster is an important but difficult task. This is partially because we do not fully understand what happens during disasters. We can scarcely eyewitness the occurrence of a natural disaster. We can only visit sites of damage after the event and report the observation to colleague engineers. It is certainly possible that important and essential keys for mitigation are still overlooked or unknown. In this regard, the study of disaster mitigation is important and fascinating to capable and ambitious people.

In my personal opinion, earthquake problems deserve attention of capable people most significantly in mountain areas. In the mountain areas where many slope failures are triggered by earthquake shaking, not only the seismic shaking but also the ground condition is uncertain or not well known for design purposes. Accordingly, many unexpected things happen. This is the reason why many papers in this issue address earthquake-rainfall interaction, which is called the combined effects, as well as the long-term effect of past earthquakes. These new problems are not studied in details yet and the practice does not know how to deal with them. Conventional approach of geotechnical engineering such as limit equilibrium and factor of safety is too expensive because the action is combined and rare. Consequently, there is no practical approach yet and ambitious people are waited to start positive action to solve the problem. As the chief editor of this issue, I strongly expect such people to read this issue and be stimulated. I am confident that there are many challenges in this field of study that deserve deep devotion of good people. It is desired that this special issue would pave a road to solution of geotechnical earthquake problems that appear abundant in Southeast Asia and have not been well investigated.

Guest Editor
Ikuo Towhata



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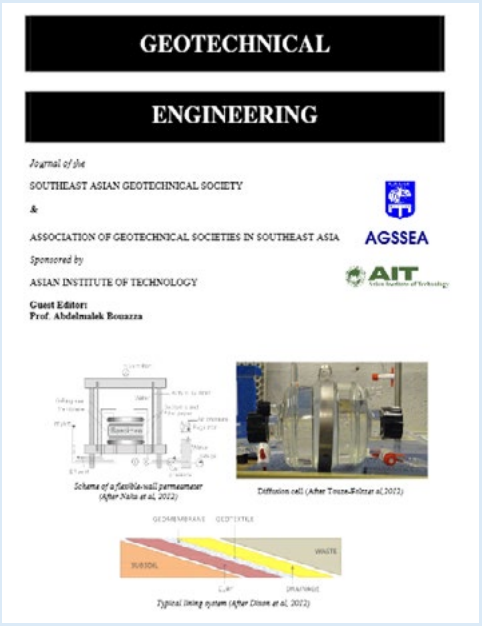
SEPTEMBER 2012: Environmental Geotechnics and Sanitary Landfills

Geosynthetics are extensively used in waste containment facilities either as part of cover or bottom lining systems. Their aim is to reduce water ingress into the containment, to control gas migration in the case of the cover liners, and to limit contaminant migration to levels that will result in negligible impact in the case of bottom liners. This special issue gives an overview of the research effort conducted in various part of the world on the theme of this special issue. It contains ten papers addressing important aspects related to waste containment design including the important interaction between waste or soil and lining systems, geomembrane wrinkles, hydrocarbon diffusion, geosynthetic clay liners and interaction with acid mine drainage and acidic solutions, settlement and its mitigation through the use of geosynthetics and finally concluding with an overview of the use of geosynthetics in landfills in Asia and in Perth, Australia.

Finally, I wish to express my appreciation to the authors for their effort and time in the preparation of a set of very high quality papers. I am very much indebted to the reviewers for their highly competent efforts. Last but not least, I would like to gratefully acknowledge the assistance and encouragement of **Professor A. Balasubramaniam**, Editor in Chief, during the preparation of this issue.

Abdelmalek Bouazza
Guest Editor



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December 2012 Issue: In-situ Tests

This special issue the journal is focused on in-situ testing and covers recent developments in equipment and data interpretation, results from field programs conducted at research test sites, and case histories. In situ testing and soil sampling with subsequent laboratory testing are the key components of geotechnical site investigation practice. Because of the wide range of soils and soil behavioural response that can be encountered during a site investigation there is correspondingly a large variety of in situ tools that have been developed and used in practice. Collectively, the eight papers in this special issue touch on aspects of many of the common devices including: standard penetration test, piezocone, seismic piezcone, field vane, seismic dilatometer, pressuremeter, full-flow penetrometers, and earth pressure cells. Topics include determination of key soil properties for design such as undrained shear strength, shear wave velocity, preconsolidation stress, effective stress friction angle, lateral earth pressure, cyclic resistance, and hydraulic conductivity. Results presented in the papers cover the full spectrum of soils including low and high plasticity clays, sensitive clays, plastic and non-plastic silts, sands, gravels and peat. The data presented for the case histories and also that collected at the research test sites provide a valuable frame of reference for future investigations in similar soils.

The Guest Editors thank the authors for their contributions and all the reviewers for the time and dedication to reviewing the manuscripts. We also thank **Dr A. Balasubramaniam** and **Dr T.A. Ooi** for the opportunity to serve as Guest Editors and especially for their constant encouragement and assistance during the preparation of this issue and guiding its publication to fruition.

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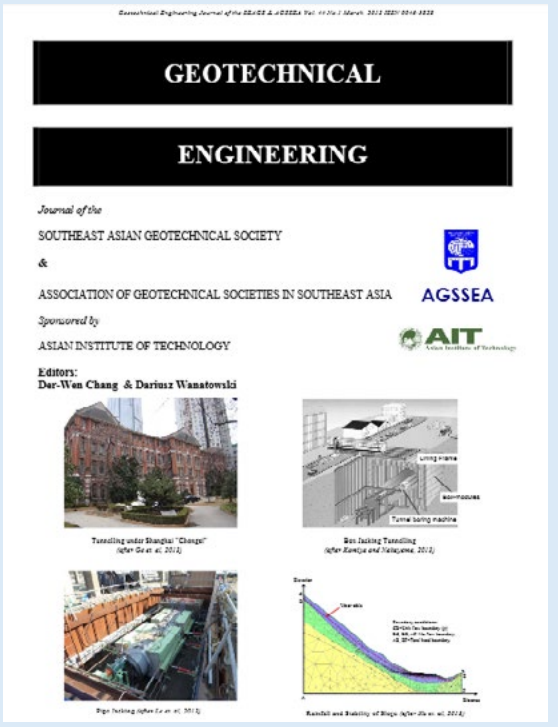
MARCH 2013: Contributed Papers

The SEAGS and AGSSEA Journal of Geotechnical Engineering has been growing tremendously since the SEAGC in Taipei in 2010. Thanks to all our Guest Editors and also the Editorial Team with **Dr. Ooi** and IEM Team from Malaysia, and **Prof. Bergado** and Team from AIT and **Prof. Charles NG** from the HK Society in using the HKUST Web. In 2010~2012, many important and representative topics had been selected and successfully presented. Apart from a series of special issues on subjects in geotechnical engineering, a considerable amount of contributed papers with wider spectrum have been received.

As a consequence, the 1st issue in 2013 collects eleven excellent papers on the fundamentals of soil behaviours and the lessons learned from different construction technologies. There are papers discussing the **deep excavation in clay by Mabrouk and Rowe**, a historical overview on **consolidation and strength for Taipei clay made by Hwang et al.**. **Lime stabilization and the acid effects on organic clay was brought by Mohd Yunus et al**. **Settlements of the compacted soils and the compaction for mudstones were discussed by Leong et al. and Puttiwonggrak et al., respectively**. On the other hand, **small-strain behaviour of sand was presented by Lai et al.** considering the effects of stress paths.

Additionally, four papers discussing the observations from on-site construction technologies and/or relevant numerical simulation can be found. They are: **Joint effect on Pipe Jacking method by Le et al.**, F**E modelling on Box-Jacking tunnel work induced ground behaviours by Komiya and Nakayama**, **Deformations of historic building due to tunnelling by Ge et al.**, and **Monitoring technology on slope with rainfall infiltration by Xu et al**. **Papagiannakis discusses an overview of the state of the art of mechanistic-empirical pavement design**, as established by NCHRP Study 1-37A in the United States. It is our belief that all the papers presented in this issue are highly valuable and useful to the engineering work. The editors would like to express their sincere gratitude towards the authors and the reviewers who make this publication possible.



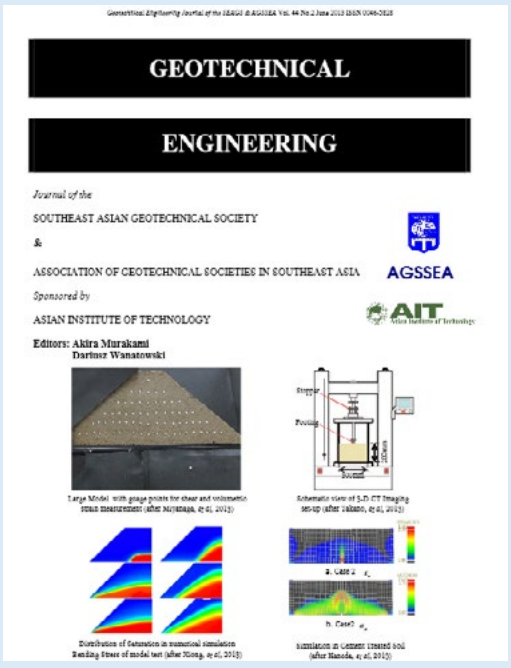
MARCH 2013 JOURNAL ISSUE

Editors
Der-Wen Chang
Dariusz Wanatowski

JUNE 2013: Modelling of Soil Behaviour

It is a pleasure for me to be the Guest Editor for this Special Issue on Modelling Aspects of Soil Behaviour. There are seven excellent papers:

Soil-water-air coupled finite element analysis of model test on slope failure of unsaturated soil; Relation between seepage force and velocity of sand particles during sand boiling; A density-and stress-dependent elasto-plastic model for sands subjected to monotonic undrained torsional shear loading; 1-G Model Test with Digital Image Analysis for Seismic Behavior of Earth Dam; X-ray CT imaging of 3-D bearing capacity mechanism for vertically loaded shallow foundations; Modeling and Bending Test Simulations of Cement Treated Soil; and Modelling viscous effects during and after Construction in London Clay.



JUNE 2013 JOURNAL ISSUE

The authors of these papers are **Y. Xiong**, **X. Bao** and **F. Zhang**; **K. Fujisawa**, **S. Nishimura**, **T. Shuku** and **A. Murakami**; **G. Chiaro**, **J. Koseki** and **L.I.N. De Silva**; **Y. Miyanaga**, **A. Kobayashi** and **A. Murakami**; **D. Takano**, **J. Otani** and **M. Nakamura**; **K. Kaneda**, **S. Onimaru** and **T. Tanikawa**; and **S. D. Clarke** and **C. C. Hird**.

Appropriate modelling of the soil behaviour is now most important with all types of current analyses and design of the geotechnical aspects of Infra-structure and mining engineering projects. This Special Issue is the second of this type in this Journal since 2011 and the first one was in December 2011 as edited by the guest Editor **Dr. Dariusz Wanatowski**. The material contained in this issue will fit in very well with the next Issue in September 2013 on Geotechnical Analyses. Visco elasto-plastic modelling of soils has been the current trend in soil behaviour.

I must thank **Dr. Hossam Abuel-Naga** of the School of Mechanical, Aerospace, and Civil Engineering, the University of Manchester, in helping with the submission of the paper by S. D. Clarke and C. C. Hird. Also, the in-house editor of the Journal Dr. Dariusz Wanatowski for his meticulous and painful task of checking and making sure that the articles are indeed in the correct format as required in the production of the journal.

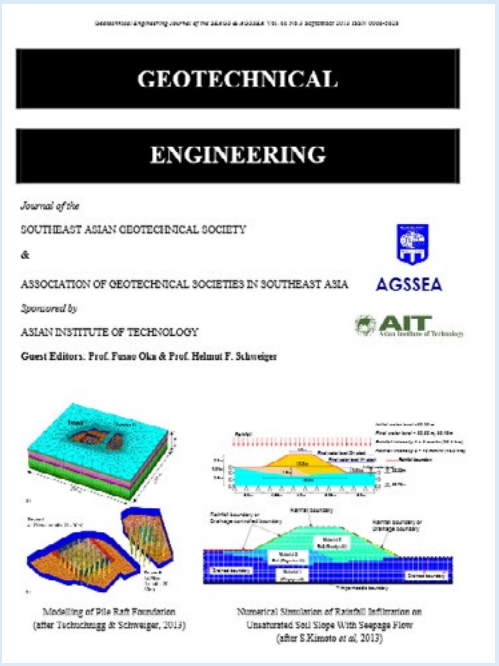
Akira Murakami
Guest Editor
Editorial Team, SEAGS/AGSSEA J. of Geotechnical Engineering
Professor of Kyoto University
Graduate School of Agriculture
Editor, Soils and Foundations

SEPTEMBER 2013: Role of Analyses in Geotechnical Engineering

I am very pleased to be the Leader of the Team of Guest Editors on this Special Issue on the Role of Analyses in Geotechnical Engineering. The co-editors are **Prof. Helmut** and **Prof. Muhunthan** in seeking contributions. **Dr. Dariusz Wanatowski** also helped in Proof Reading the articles.

There are nine papers in this issue and they are: Numerical Simulation of the Rainfall Infiltration on Unsaturated Soil Slope Considering a Seepage Flow; Seismic Response of Gravity-Cantilever Retaining Wall Backfilled with Shredded Tire; Numerical modeling of lateral response of long flexible piles in sand; New Sampling Algorithm in Particle Fileter for Geotechnical Analysis; Comparison of deep foundation systems using 3D finite element analysis employing different modeling techniques; Application of a constitutive model for swelling rock to tunnelling; Finite element modelling of seismic liquefaction in soils; Random Wave-Induced Seabed Responses around Breakwater Heads; and Influence of brittle property of cement treated soil on undrained bearing capacity characteristics of the ground.

The authors of these papers are: **S.Kimoto**, **F.Oka** and **E.Garcia**; **N. Ravichandran** and **E. L. Huggins**; **Md. Iftekharuzzaman** and **Bipul C Hawlader**; **T. Shuku**, **S. Nishimura**, **K. Fujisawa** and **A. Murakami**; **F. Tschuchnigg** & **H.F. Schweiger**; **B. Schadlich**, **T. Marcher** and **H.F. Schweiger**; **V. Galavi**, **A. Petalas** and **R.B.J. Brinkgreve**; **Y Zhang**, **D-S Jeng**, **Z-W Fu** and **J Ou** and **S. Yamada**, **T. Noda**, **A. Asaoka** and **T. Shina**.



SEPTEMBER 2013 JOURNAL ISSUE

Finally, I hope this Special Issue would be of great values to the Readers of Geotechnical Engineering Journal, whether they are in research or practice.

Fusao Oka
Guest Editor
Editorial Team, SEAGS/AGSSEA J. of Geotechnical Engineering
Professor Emeritus of Kyoto University
Kyoto, Japan

DECEMBER 2013: Issue to Honour Prof. Bergado

This special issue is dedicated to **Professor Dennes T. Bergado** to commemorate his retirement from the Asian Institute of Technology (AIT) in June, 2013. The general theme of this issue is: **Soft Ground improvement and Geosynthetics**, which has been the main area of Prof. Bergado's personal research activity over the past 3 decades and to which he has contributed enormously. The idea of having a special issue for Prof. Bergado's retirement came from **Prof. A. S. Balasubramaniam** in March 2012. When he asked us to be guest editors for this issue, we accepted the invitation happily and eagerly. Prof. Bergado was **Prof. Jinchun Chai**'s supervisor for his Doctor of Engineering Degree in AIT (1992), and he is also a close friend of **Prof. Shuilong Shen**.

We were determined to make the issue one of very high standards and a lasting and memorable contribution to the subject area. We started to invite active researchers in the field to contribute their new research results or state-of-the-art papers in April 2012. All those we invited responded warmly and enthusiastically, and we believe this was because of Prof. Bergado's outstanding contribution to the field as well as his friendly personality. We informed all who agreed to contribute that all papers would be subject to strict critical review and only those papers that satisfactorily addressed all review comments would be finally included in this issue. Thirteen (13) full papers were received by the end of 2012. Review and revision works took about 4 months and in May 2013, the 13 high quality papers were finally accepted and ready for publication. Among these papers, 7 are review articles, i.e., state-of-the-art papers, and 6 contain essentially new and previously unpublished material.

In the meantime, we invited senior professors in the field of geotechnical engineering who know Prof. Bergado well to write their thoughts and reflections about him for this special issue. The notes penned by **Prof. H.G. Poulos**, **Prof. S.K. Kim** & **Prof. N. Miura** are included with this preface. It is hoped that these short notes will provide inspiration to young researchers and engineers working in the area of ground improvement and the application of geosynthetics.

DECEMBER 2013 *JOURNAL ISSUE*

Finally we would like to thank all the contributors and people who helped us to make this special issue a success. We wish Prof. Dennes T. Bergado a very happy retirement and at the same time urge him to continue to contribute professionally to the fields of soft ground improvement and the use of geosynthetics. We feel he still has much to offer to our profession.

Jinchun Chai, Saga, Japan
Shui-Long Shen, Shanghai, China

MARCH 2014: Geotechnics for Advancing Transport Infrastructure

This Special Issue of the Geotechnical Engineering Journal of the Southeast Asian Geotechnical Society & Association of Geotechnical Societies in Southeast Asia on the Geotechnics for Advancing Transport Infrastructure is the result of keen discussion among various experts, for highlighting the key geotechnical issues encompassing modern transport infrastructure. 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.

The issue begins with an invited paper by **Tatsuoka et al** titled "**Geosynthetic-Reinforced Soil Structures for Railways: Twenty Five Year Experiences in Japan**." It draws our attention to the importance of the application of Geosynthetic-reinforced soil retaining walls constructed for high-speed train lines considering for both high seismic loads and subsequent over-topping tsunami current.

The article on the "**Enhancement of Rail Track Performance through Utilisation of Geosynthetic Inclusions**" by **Indraratna et al**. proposes the use of artificial inclusions such as polymeric geosynthetics and rubber shock mats with the aim of reducing particle breakage as a cost-effective option. The relative performance of different types of geogrids, geocomposites and shock mats installed in fully instrumented field tracks has been evaluated in the towns of Bulli and Singleton in the State of New South Wales, Australia.

In their study on "**Railway Track Transition Dynamics and Reinforcement Using Polyurethane GeoComposites**," **Woodward et al.** investigate the application of a polyurethane rein-

forcement technique to control the ballast migration behaviour in the transition zone to reduce dynamic effects from problems like hanging sleepers. The paper demonstrates the effectiveness of the application through numerical simulation and a case study at Tottenham Hale Junction in the United Kingdom.

In the paper "**How to Overcome Geotechnical Challenges in Implementing High Speed Rail Systems in Australia**," **Khabbaz** and **Fatahi** summarise lessons learnt from other countries experienced with high speed rail. The challenges and the effective solutions associated with implementing HSR systems in Australia are explained including selection and design of proper tracks, geographical issues, environmental concerns, economics and project costs and construction procedures.

In their contributions "**Maintenance Model for Railway Substructure**," by **Ebrahimi et al.** propose a maintenance model for railway substructure to predict the deformation of railway track and to estimate a schedule for ballast maintenance and tamping. A mechanistic-based maintenance planning software program was developed by incorporating the mechanistic empirical deformation model for railway substructure.

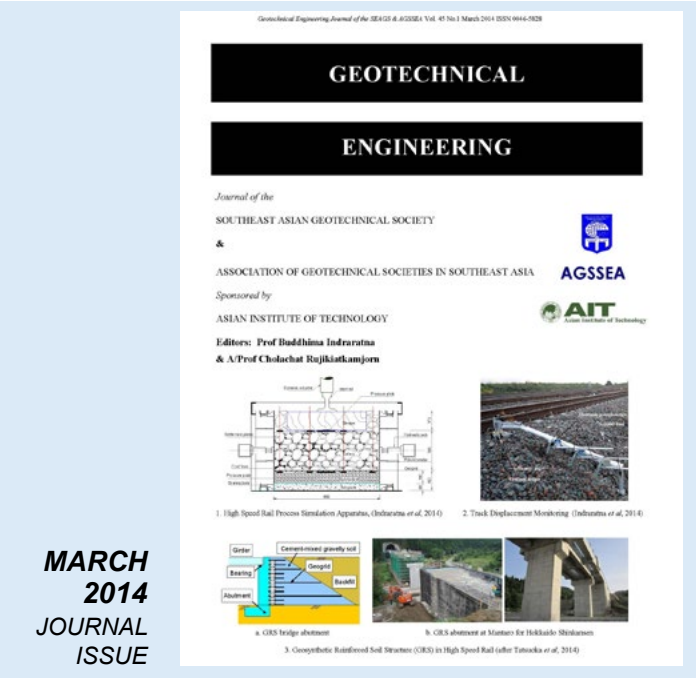
In their study "**Dynamic Behaviour of Railway Ballasted Track Structures in Shaking Table Tests and Seismic Resistant Performance Evaluation in Japan**," **Ishikawa et al.** present an experimental and analytical study to explain the dynamic response of ballasted track structures subjected to horizontal seismic motions using small-scale model ballasted tracks with shaking table tests. They show that this technique could roughly assess the seismic performance of ballasted track structures for practical use.

The article "**Mechanical Properties of Polyurethane-Stabilized Ballast**," by **Keene et al.** presents the mechanical properties of Polyurethane-Stabilized Ballast (PSB) compared to other materials commonly used in transportation infrastructure. It is found that PSB has mechanical properties similar to cement-stabilized soil (i.e., displays flexural strength), but has much greater compressive strength than ballast, which is critical for stabilization of track substructure.

"**Dependency of Cyclic plastic Deformation Characteristics of Unsaturated Recycled Base Course Material on Principal Stress Axis Rotation**" is an experimental study by **Inam et al.** who present the strength-deformation characteristics of unsaturated recycled crusher-run material, under various loading conditions and saturation degrees using multi-ring shear apparatus. The results from the multi-ring shear tests during repeated axial and shear loading tests can produce the real permanent deformation behaviour inside the base course and such results can be incorporated in practical pavement design.

The paper "**Quickness Test Approach for Assessment of Flow Slide Potentials**" by **Thakur** and **Degago** introduces a novel and pragmatic test procedure referred to as the quickness tests to evaluate remoulded shear strength of the sensitive clays. Based on relevant Norwegian landslides data, a quickness based criteria is proposed to assess the potential for occurrence of flow slides.

"**Cement Stabilization for Pavement Material in Thailand**" presented by **Horpibulsuk et al.** is a detailed review on the application of lightweight cemented clay and recycled pavement material, which are commonly used in Thailand. The effects of water content, cement content, air content and curing time play a major role in controlling the field strength development.



MARCH 2014 JOURNAL ISSUE

The study on "**Stone Columns Field Test: Monitoring Data and Numerical Analyses**" **Almeida et al.** presents a case study of a field test performed on a set of sixteen stone columns loaded with iron rails for one month. The numerical calculations of vertical and horizontal displacements reproduced the field measurements with satisfactory accuracy up to limit state conditions. The yield of stone columns provided by 3D analysis appears to be more realistic than that provided by 2D analysis.

"**Numerical Analysis of Response of Geocell Confined Flexible Pavement**," by **S. Babu** and **R. Babu** investigates the behaviour of geocell reinforcement in the flexible pavement. The paper elaborates on the effects of secant modulus of geocell material, aspect ratio, thickness of geocell-reinforced layer, and type of subgrade material using a series of numerical analyses.

Our invitation to be Guest Editors of this Special Issue is gratefully appreciated. The 11 articles plus the technical note included in this Special Issue covers an array of issues from theory to practice in transport infrastructure development. We gratefully acknowledge the efforts of all Authors who accepted our invitation to submit high quality articles in a timely manner. All papers have been peer-reviewed according to journal guidelines to maintain high standards, and we acknowledge these efforts by all Reviewers.

It is hoped that this Special Issue on Transport Geotechnics would be of immense benefit to both researchers and practitioners alike.

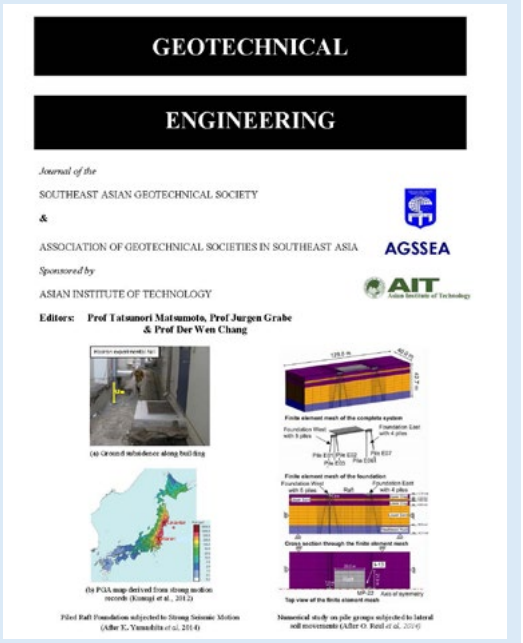
Prof Buddhima Indraratna,
A/Prof Cholachat Rujikiatkamjorn

JUNE 2014: Deep Foundations

The theme of the 2014 June issue is Deep Foundations. **Prof. Tatsunori Matsumoto** at Kanazawa University, Japan and **Prof. Jurgen Grabe** at Hamburg University of Technology, Germany are the guest editors while **Prof. Der-Wen Chang** at Tamkang University, Taiwan is the in-house editor. Prof. Der Wen Chang also undertook all the administrative works related to the review of the articles and co-coordinating with the Guest Editors, Authors and Reviewers. After 18-month of preparations, thirteen papers were finally selected and to be published in this Issue.

The content of this issue covers up mainly the task force studies 1~5 of ISSMGE TC212. More than half of the technical papers are based on observations of the experimental works. Axial bearing capacity and static cyclic loading behaviors of the model piles and/or pile group are respectively examined by **Aoyama et al.**, **Hwang et al.** and **Ünsever et al.**. Case studies on Response of Laterally Loaded Nonlinear Piles are shown by **Wei Dong Guo**. Seismic performance of the piles from field measurements are discussed by **Yamashita et al.**. Seismic soil-structure-foundation behaviors with liquefaction concerns from the shaking table test with numerical comparisons are discussed in the study made by **Zhang et al.**. An overview of the deep foundation systems of the high-rise buildings can be found by **Katzenbach and Dr. Leppla**.

On the other hand, a number of numerical studies can be found on simulating the pile foundation behaviors. The topics include: energy pile with feasible material modeling by **Ma et al.**, passive loading effects on piles by **Moormann and Aschrafi**, dynamic load testing on pipe piles compared to case study by **Ta et al.**, laterally loaded nonlinear piles by **Wei Dong Guo**, seismic performance of the piles using Reliability method by **Chang et al.**, and bearing behaviors



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of pile group and/or piles respectively discussed by **Wu and Yamamoto**, **Reul et al.** and **Ünsever et al.**.

It is the sincere wish of the editors that this issue can provide a good record for the advanced works on deep foundation research. Sincere gratitude is expressed by the editors to the delegates and the reviewers who have contributed tremendous time and efforts in making this Remarkable Issue feasible and to complete the work within very strict timelines.

Tatsunori Matsumoto
Jurgen Grabe &
Der Wen Chang

SEPTEMBER 2014: Centrifugal Model Tests and Contributed Papers

Prof Viswanadham, and **Dr.Ooi Teik Aun** & **Dr. Hanh Quang Le**

A growing number of papers were received from time to time by authors who have an active interest in the journal. It is the only journal and SE Asia and we need to cater well for all authors.

As such, this Issue of the Journal is in two parts. The First Part is edited by **Prof. Viswanadham** and his team on Centrifugal Model Tests. The second part is edited by the in-house editors of the Journal.

Part 1: Centrifuge-based Physical Modeling

It is a pleasure for us to be Guest Editors for this Special Issue on Centrifuge-based Physical Modeling. There are seven excellent papers:

Centrifuge Modelling of Improved Ground; **Simulation of Soil Movement in Geotechnical Centrifuge Testing – Deep Excavations, Tunnelling, Deposit**; **Run-out of sensitive clay debris: significance of the flow behaviour of sensitive clays**; **Verification of the Generalized Scaling Law for Flat Layered Sand Deposit**; **Performance of Rail Embankments Constructed with Coal Ash as a Structural Fill Material: Centrifuge study**; **Centrifuge Model Tests on the Use of Geocomposite as an Internal Drain in Levees**; **Field scale tests for determination of pullout capacity of suction pile anchors under varying loading conditions.**

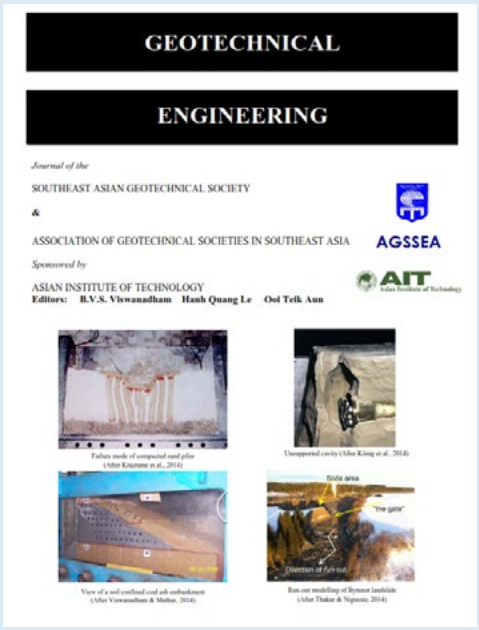
The authors of these papers are **M. Kitazume, Y. Morikawa and S. Nishimura**; **D. König, O. Detert andT.Schanz**; **V. Thakur and D. Nigussie**; **T. Tobita, S. Escoffier, J. L. Chazelas and S. Iai**; **B.V.S. Viswanadham and V.K. Mathur**; **Vijaya Ravichandran, R. Ramesh, S. Muthukrishna Babu, G.A.Ramadass, M.V.Ramanamoorthy and M.A. Atmanand.**

With an aim of disseminating knowledge and expertise about the centrifuge based physical modelling techniques, the Technical committee TC 104 on Physical Modelling in Geotechnics of the ***International Society of Soil Mechanics and Geotechnical Engineering*** (ISSMGE) is organizing regional workshops first in Europe and Asia. The first Asian workshop on Physical Modelling in Geotechnics (Asiafuge2012) was held in Mumbai, India in November 14-16, 2012 and was organised in association with Indian Institute of Technology Bombay, Mumbai, India, and the Indian Geotechnical Society Delhi with an emphasis on the application of centrifuge-based physical modelling for infrastructure development. Selected themes included ***soft ground problems, foundations, deep excavations, slopes and embankments, earthquakes, climate change, ground improvement techniques, tunnels, offshore foundation systems, environmental geotechnics, geosynthetics and novel construction techniques in infrastructure geotechnics***. The above papers were selected by a scientific committee consisting of delegates, who attended Asiafuge 2012.

B.V.S. Viswanadham (Lead Guest Editor)
C. Gaudin
T. Shanz

Part 2: Contributed Papers

In this part there are 7 contributed papers on **Mobile information system for risk management in urban underground construction**; **Design methods in Segmental Tunnel Linings**; **Challenges in constructing urban tunnels**; **Bulk compression of dredges soils**; **Energy piles**; **Bored piles in residual soils** and **Centrifugal shaking table tests on reinforced earth embankments**.



SEPTEMBER 2014 *JOURNAL ISSUE*

The authors of the papers are: **Hanh Quang Le** and **Bin-Chen Benson Hsiung**; **N.A. Do, D. Dias, P.P. Oreste, I. Djeran-Maigre**; **R. Katzenbach** and **S. Leppla; Hiroshi Shinsha** and **Takahiro Kumagai**; **A.M. Tang, J.M. Pereira, G. Hassen, N. Yavari**; **Mutiasani Dianmarti Kusuma** and **Eng-Choon Leong**; **W.Y. Hung , J.H. Hwang, C.J. Lee**.

The editorial team of the contributed papers are most grateful to the authors and the reviewers for their excellent job. Most papers in Part 2 were presented in Geotech Hanoi 2013, but were modified significantly and had been subjected to extensive review.

Ooi Teik Aun (Lead Editor Part 2)
Hanh Quang Le
Noppodol Phienwej

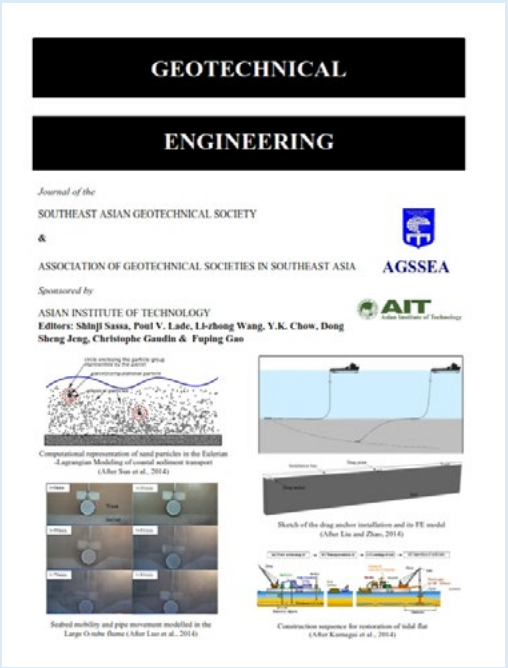
DECEMBER 2014: Offshore & Coastal Geotechnics

The theme of the 2014 December issue is Offshore and Coastal Geotechnics. The guest editors for this special issue are **Dr. Shinji Sassa** at Port and Airport Research Institute, Japan, **Prof. Poul V. Lade** at The Catholic University of America, USA, **Prof. Li-zhong Wang** at Zhejiang University, China, **Prof. Yean K. Chow** at National University of Singapore, **Prof. Dong Sheng Jeng** at Griffith University, Australia, **Prof. Christophe Gaudin** at University of Western Australia and **Prof. Fuping Gao** at Chinese Academy of Sciences. **Dr. Dariusz Wanatowski** at the University of Nottingham Ningbo, China contributed to the editorial management. **Prof. Bala** as the Editor-in-Chief and **Dr. Teik A. Ooi** as the President of SEAGS strongly supported the launch of this special issue on Offshore and Coastal Geotechnics.

The topics and scope covered in this special issue are comprehensive and interdisciplinary, ranging from Offshore Foundations, Seabed Liquefaction, Scour and Erosion, Marine Slope Stability and Geotechnical Aspects of Dredging and Reclamation Works to Tsunami-Seabed-Structure Interaction. The issue is comprised of twelve papers with a selection of the authors from eight countries involving Asia, Australia, Europe and USA.

Sumer summarizes recent research advances in seabed liquefaction through the use of standard wave-flume tests and centrifuge wave-soil modelling and mathematical approaches together with their implications for the stability of marine structures. **Sun et al.** develops and validates a new hybrid Eulerian-Lagrangian modelling framework of coastal current-induced sediment transport and sand dune migration. **Liu** and **Zhao** present a numerical study of the penetration mechanism and kinematic behaviour of the

drag anchor in soils by performing a large deformation finite element analysis. **Wang et al.** describes and discusses the results of a series of specially designed water flume tests on the response of silty soils under the action of combined waves and currents. **Luo et al.** proposes a new pipeline stability analysis method that takes into account the three-dimensional scour and pipe sinkage that were observed in an innovative large experimental facility, named the O-tube. **Kohan et al.** describes an improved analytical method for accurately predicting the offshore spudcan extraction resistance in soft clay and validates the method against a large database of centrifuge model tests. Jostad et al. develops and validates a new finite element procedure that accounts for 3D cyclic undrained degradation of soils with its application to a foundation design of offshore structures. **Monkul et al.** proposes volumetric compressibility (mv) as an indicator of liquefaction potential for sands and silty sands that are ubiquitous in offshore and coastal deposits on the basis of a series of isotropic compression and undrained triaxial tests. **Lee et al.** investigates the seismic responses of a gently sloped liquefiable sand deposit confined within parallel walls of different geometry using centrifuge modelling and assesses the wall effects in relieving the excess pore pressures and the lateral spreading. **Chen et al.** numerically investigates the pullout behaviour of circular plate in normally consolidated clay and presents a direct design method for obtaining the uplift capacity of a circular plate anchor embedded in soils with a linearly increasing shear strength. **Kumagai et al.** presents and validates a new restoration method of artificial tidal flats by use of pressure injection of slurry dredge clay through the combined use of laboratory and field experiments and the finite element analyses. Sassa reports some recent research advances on tsunami-seabed-structure interaction and discusses the stability assessment for the design of tsunami-resistant structures from geotechnical and hydrodynamic perspectives.



DECEMBER 2014 JOURNAL ISSUE

We consider that this special issue presents and illustrates the outcome of some of the state-of-the-art research on Offshore and Coastal Geotechnics, and hope that it will make an important contribution to this growing field in the years to come.

Shinji Sassa
Poul V. Lade
Lizhong Wang
Yean K. Chow
Dong S. Jeng
Chiristophe Gaudin
Fuping Gao

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T.A. Ooi and C.H. Tee

3: Embankment Construction with Saturated Clayey Fill Material Using Geocomposites
J.-C. Chai, T. Hino, Y. Igaya, and Y. Yamauchi

4: Numerical Modeling of Geosynthetic-Reinforced Earth Structures and Geosynthetic-Soil Interactions
J. Huang, A. Bhandari, and X. Yang

5: Geosynthetic Tubes and Geosynthetic Mats: Analyses and Applications
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3: Three-Dimensional Deformation Behavior of an Oversized Excavation in Shanghai Clay
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8: Design and Construction of InJe Tunnel, the Longest Road Tunnel of Korea
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5: Simulating Shear Rate-Dependent Undrained Stress-Strain Behaviour of Natural Sedimentary Clay at Kobe Airport
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6: Experimental Investigation on Settling Behavior of Hong Kong Marine Deposits in Settling Column Condition
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8: Effect of High Confining Pressure on the Behaviour of Fibre Reinforced Sand
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9: A Comment on the Ratio of the Maximum and Minimum Dry Density for Sand
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3: In-Situ And Laboratory Investigations Of Stress-Dependent Permeability Function And SDSWCC From An Unsaturated Soil Slope
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A.J. Puppala, T. Wejrungsikul, V. Puljan and T. Manosuthikij

5: Unsaturated Soil Mechanics For Slope Stabilization
H. Rahardjo, A. Satyanaga, E. C. Leong

6: The Development Of Unsaturated Soil Mechanics At Imperial College, London
J.R. Standing

7: Climate Change And The Role Of Unsaturated Soil Mechanics
D.G. Toll1, J. Mendes1, P.N. Hughes, S. Glendinning and D. Gallipoli

8: Some Mining Applications Of Unsaturated Soil Mechanics
D.J. Williams

June 2012: Geotechnical Earthquake Engineering
Guest Editors: Ikuo Towhata, Der Wen Chang & Ivan Gratchev

1: Proposed Changes to the Geotechnical Earthquake Engineering Provisions of the Bangladesh National Building Code
Tahmeed M. Al-Hussaini, Tahsin R. Hossain and M. Hayeem Al-Noman

2: Analysis of Soil Liquefaction during the Recent Canterbury (New Zealand) Earthquakes
RP Orense, MJ Pender and LM Wotherspoon

3: Numerical Simulation of Seismic Slope Stability Analysis based on Tension-Shear Failure Mechanism
Yingbin Zhang, Guangqi Chen, Jian Wu, Lu Zheng & Xiaoying Zhuang

4: A Real-time Prediction Method for Regional Rainfall-induced Geohazards in Post-earthquake Region of Wenchuan Earthquake
Z. Yang, J. Qiao, H. Tian, D. Huang, M. Wang and H. Meng

5: Effects of Anisotropic Consolidation and Stress Reversal on the Liquefaction Resistance of Sands and Silty Sands
Abbas Galandarzadeh and Alireza Ahmadi

6: Characteristics of Slope Failures During Natural Disasters Considering Geographical Features and Groundwater Level: Case Study of the Chuetsu Region of Niigata, Japan
H.Toyota

7: Overview of the Geotechnical Damages and the Technical Problems Posed after the 2011 off the Pacific Coast of Tohoku Earthquake
M. Kazama, T. Noda, T. Mori and J. Kim

8: Development of Potentail Map for Landslides Induced by the Chi-Chi Earthquake Using Instability Index
Meei-Ling Lin and Yu-Hung Shu

9: Geotechnical Hazards with Emphasis on Seismically-Combined Effects on Slopes
Ikuo Towhata

10: Monitoring on Earthquake Induced Landslide - A Case Study in Northwest Chengdu, China
Hongling Tian, Jianping Qiao., Taro Uchimura and Lin Wang

September 2012: Geosynthetics and Sanitary Landfill
Guest Editor: Abdelmalek Bouazza

1: Waste/Lining System Interaction: Implications for Landfill Design and Performance
N. Dixon, K. Zamara1, D.R.V. Jones and G. Fowmes

2: Wrinkling of a Geomembrane on a Compacted Clay Liner on a Slope
R. K. Rowe, P. Yang, M.J. Chappel, R.W.I. Brachman & W.A. Take

3: Diffusion of phenolic compounds through an HDPE geomembrane
N. Touze-Foltz, M. Ahari, M. Mendes, C. Barral, M. Gardoni and L. Mazéas

4: Shear-Induced Geomembrane Damage due to Gravel in Underlying Compacted Clay
P. J. Fox, C. Athanassopoulos, S. S. Thielmann, and A. N. Stern

5: Evaluation of mineral barriers against acid rock drainage
Naka, T. Katsumi, G. Flores, T. Inui, T. Ohta, T. Urakoshi, and T. Ishihara

6: Improvement on the Performance of Geosynthetic Clay Liners Using Polymer Modified Bentonite
Y. Liu, W. P. Gates and A. Bouazza

7: Effect of Settlement rate and Geogrid reinforcement on the Deformation Behaviour of Soil barriers of Landfill Covers: Centrifuge Study
S. Rajesh and B.V.S. Viswanadham

8: Effect of differential settlements on the sealing efficiency of GCLs compared to CCLs: Centrifuge Study
B.V.S. Viswanadham, S. Rajesh and A. Bouazza

9: Geosynthetic Lining System for Modern Waste Facilities – Experiences in Developing Asia
H. B. Ng and B. Ramsey

10: The Use of Geosynthetics in Major Metropolitan Landfills in Perth, WA – Two Case Studies
L. Du Preez, R. Beaman and I. Watkins

December 2012 – In Situ Testing
Guest Editors: Tom Lunne and Don J. DeGroot

1: Evaluation of existing CPT correlations in silt
A. S. Bradshaw, A. C. Morales-Velez and C.D.P. Baxter

2: Characterisation of quick clay at Dragvoll, Trondheim, Norway
A. Emdal, M. Long, A. Bihs, A. Gylland and N. Boylan

3: Field response of push-in earth pressure cells for instrumentation and site characterization of soils
Alan J. Lutenegger

4: Frequent-interval SDMT and continuous SCPTu for detailed shear wave velocity profiling in soils
T. Ku and P.W. Mayne

5: In situ testing of peat – a review and update on recent developments
M. Long and N. Boylan

6: Understanding the stiffness of soils in Singapore from pressuremeter testing
K.H. Goh, K. Jeyatharan and D. Wen

7: In situ measurement of hydraulic conductivity of saturated soils
D.J. DeGroot, D.W. Ostendorf and A.I. Judge

8: Rate effect on cone penetration test in sand
F. A. B. Danziger and T. Lunne

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March 2013: Contributed Papers

1: Some factors affecting deep excavation in clay over gassy bedrock
Ahmed B. Mabrouk and R. Kerry Rowe

2: Effects of consolidation and specimen disturbance on strengths of Taipei clays
Richard N. Hwang, Za-Chieh Moh and I-Chou Hu

3: Lime stabilisation of organic clay and the effects of humic acid content
N.Z. Mohd Yunus, D. Wanatowski and L.R. Stace

4: Wetting-induced settlement of compacted soils
E.C. Leong, S. Widiastuti and H. Rahardjo

5: Compaction curve with consideration of time and temperature effects for mudstones
A. Puttiwongrak, H. Honda, T. Matsuoka and Y. Yamada

6: Small strain behavior of sand under various stress paths considering anisotropic initial stress state
Yong Lai, Jian-yong Shi, Xiao-jun Yu and Qiu-rong Cao

7: Study of joint effect on pipe in Pipe Jacking method
L.G. Le, M. Takise, M. Sugimoto and K. Nakamura

8: Finite element analysis of ground behaviour due to Box-Jacking tunnel work
K. Komiya and T. Nakayama

9: Tunneling induced deformation of a historic building in Shanghai
Shi-ping Ge, Dong-wu Xie, Wen-qi Ding, Ya-fei Qiao, Jin-chun Chai

10: In-situ monitoring of internal displacements by FBG sensors and slope stability analysis under rainfall infiltration
Dongsheng Xu, Fei Tong, Huahu Pei, and Jianhua Yin

June 2013: Modelling Aspects of Soil Behaviour
Guest Editors: Akira Murakami & Dariusz Wanatowski

1: Soil-water-air coupled finite element analysis of model test on slope failure in unsaturated soil
Y.L. Xiong, X.H. Bao and F. Zhang

2: Relation between seepage force and velocity of sand particles during sand boiling
K. Fujisawa, A. Murakami, S. Nishimura and T. Shuku

3: A density-and stress-dependent elasto-plastic model for sands subjected to monotonic undrained torsional shear loading
Gabriele Chiaro, Junichi Koseki and L.I. Nalin De Silva

4: 1-G Model Test with Digital Image Analysis for Seismic Behavior of Earth Dam
Y. Miyanaga, A. Kobayashi and A. Murakami

5: X-ray CT imaging of 3-D bearing capacity mechanism for vertically loaded shallow foundations
D. Takano, J. Otani, M. Nakamura, and R. Mokwa

6: Modeling and Bending Test Simulations of Cement Treated Soil
Kazuhiro Kaneda, Tomohiro Tanikawa and Sadatomo Onimaru

7: Modelling Viscous Effects during and after Construction in London Clay
S. D. Clarke and C. C. Hird

September 2013: Numerical Analyses
Guest Editors: Fusao Oka, Helmut F. Schweiger, & Muhunthan Balasingham

1: Numerical Simulation of the Rainfall Infiltration on Unsaturated Soil Slope Considering a Seepage Flow
S.Kimoto, F.Oka and E.Garcia

2: Seismic Response of Gravity-Cantilever Retaining Wall Backfilled with Shredded Tire
N. Ravichandran and E. L. Huggins

3: Numerical modeling of lateral response of long flexible piles in sand
Md. Iftekharuzzaman and Bipul C Hawlader

4: A New Sampling Algorithm in Particle Fileter for Geotechnical Analysis
T. Shuku, S. Nishimura, K. Fujisawa and A. Murakami

5: Comparison of deep foundation systems using 3D finite element analysis employing different modeling techniques
F. Tschuchnigg & H.F. Schweiger

6: Application of a constitutive model for swelling rock to tunnelling
B. Schadlich, T. Marcher and H.F. Schweiger

7: Finite element modelling of seismic liquefaction in soils
V. Galavi, A. Petalas and R.B.J. Brinkgreve

8: Random Wave-Induced Seabed Responses around Breakwater Heads
Y Zhang, D-S Jeng, Z-W Fu and J Ou

9: Influence of brittle property of cement treated soil on undrained bearing capacity characteristics of the ground
S. Yamada, T. Noda, A. Asaoka and T. Shina

December 2013: Ground Improvement: (Dedicated to Prof. Dennes Bergado)
Guest Editors: Jin-Chun Chai & Shui-Long Shen

1: Behaviour of Clay Subjecting to Vacuum and Surcharge Loading in an Oedometer
J.-C. Chai, J. P. Carter, A. Saito and T. Hino

2: Behaviour of Geogrid Reinforced Abutments on Soft Soil
Ennio M. Palmeira, André R.S. Fahel and Gregório. L. S. Araújo

3: Geocell-Reinforced Granular Fill under Static and Cyclic Loading: A Synthesis of Analysis
X. Yang and J. Han

4: Electrical Vertical Drains in Geotechnical Engineering Applications
J. K. Lee and J.Q. Shang

5: Design and Performance of Soft Ground Improvement Using PVD with and without Vacuum Consolidation
P.V. Long, D.T. Bergado, L.V. Nguyen and A.S. Balasubramaniam

6: Reassessment of Long-Term Performance of Geogrids by Considering Mutual Interaction among Reduction Factors.
Han-Yong Jeon and Yuan Chun Jin

7: Simulations of PVD Improved Reconstituted Specimens with Surcharge, Vacuum and Heat Preloading using Axisymmetric and Equivalent Vertical Flow Conditions
P. Voottipruex and D.T. Bergado, and W. Wongprasan

8: Reinforced Embankments on Soft Deposits: Behaviour, Analysis and Design
C. Taechakumthorn and R.K. Rowe

9: Current State of the Art in Vacuum Preloading for Stabilising Soft Soil
C. Rujikiatkamjorn1 and B. Indraratna

10: Jet Grouting Practice: an Overview
Z.F. Wang, S.L. Shen, C.E. Ho and Y.H. Kim

11: Deep Mixing Method in Japan
Masaki Kitazume

12: Recent Studies of Geosynthetic Tubes and Matterres: an overview
Wei Guo, Jian Chu and Shuwang Yan

13: Design Method for Bearing Reinforcement Earth Wall
S. Horpibulsuk, C. Suksiripattanapong and A. Chinkulkijniwat

14: Current State of Knowledge on Thermal Consolidation using Prefabricated Vertical Drains
H. M. Abuel-Naga, G. A. Lorenzo and D. T. Bergado

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March 2014: Transport Infrastructures

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

2: Enhancement of Rail Track Performance through Utilisation of Geosynthetic Inclusions
Buddhima Indraratna, Sanjay Nimbalkar, and Cholachat Rujikiatkamjorn

3: Railway Track Transition Dynamics and Reinforcement Using Polyurethane GeoComposites: How to Overcome Geotechnical Challenges in Implementing High Speed Rail Systems in Australia
H. Khabbaz and B. Fatahi

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

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

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

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

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

9: Cement Stabilization for Pavement Material in Thailand
S. Horpibulsuk, A. Chinkulkijniwat, A. Suddeepong, and A. Neramitkornburee

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

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

June 2014 : Deep Foundations

1: Numerical investigation of passive loads on piles in soft soils
C. Moormann and J. Aschrafi

2: Numerical simulation of an energy pile using thermo-hydro-mechanical coupling and a visco-hypoplastic model
Xiaolong Ma, Gang Qiu and Jürgen Grabe

3: Numerical studies on dynamic load testing of an open-ended pipe pile and a case study
L. Phan Ta , T. Matsumoto and H. Nguyen Hoang

4: Performance of piled raft foundation subjected to strong seismic motion
K. Yamashita, T. Hashiba, H. Ito and T. Tanikawa

5: Static cyclic load tests on model foundations in dry sand
Y.S. Unsever, T. Matsumoto, S. Shimono and M.Y. Özkan

6: Axial bearing behaviour of a model pile in sand under multiple static cycles
J.H. Hwang, Z.X. Fu, P.Y. Yeh and D.W. Chang

7: Seismic PBD of piles from Monte Carlo simulation using EQWEAP analysis with weighted intensities
D.W. Chang, Y.H. Lin, H.C. Chao, S.C. Chu and C.H. Liu

8: Case studies on response of laterally loaded nonlinear piles
Wei Dong Guo

9: Numerical analysis of the effect of pile tip shape on soil behavior around pile
Y. Wu and H. Yamamoto

10: Shaking table test on superstructure-foundation-ground system in liquefiable soil and its numerical verification
F. Zhang, R. Oka, Y. Morikawa, Y. Mitsui, T. Osada, M. Kato and Y. Wabiko

11: Model loading tests on the bearing behaviour of a group pile and ground deformation
S. Aoyama, L. Danardi, L. Bangan, W. Mao, S. Goto and I. Towhata

12: Numerical study on the bearing behaviour of pile groups subjected to lateral pressure due to horizontal soil movements
O. Reul, J. Bauer and C. Niemann

13: Deep foundation systems for high-rise buildings in difficult soil conditions
R. Katzenbach and S. Leppla

September 2014: Centrifugal Model Test

1: Centrifuge Modelling of Improved Ground
M. Kitazume, Y. Morikawa and S. Nishimura

2: Simulation of Soil Movement in Geotechnical Centrifuge Testing – Deep Excavations, Tunnelling, Deposit
D. König, O. Detert and T. Schanz

3: Run-out of Sensitive Clay Debris: Significance of the Flow Behavior of Sensitive Clays
V. Thakur and D. Nigussie

4: Verification of the Generalized Scaling Law for Flat Layered Sand Deposit
T. Tobita, S. Escoffier, J. L. Chazelas and S.

5: Performance of Rail Embankments Constructed with Coal Ash as a Structural Fill Material: Centrifuge Study
B.V.S. Viswanadham and V.K. Mathur

6: Field Scale Tests for Determination of Pullout Capacity of Suction Pile Anchors Under Varying Loading Conditions
Vijaya Ravichandran, R. Ramesh, S. Muthukrishna Babu, G.A. Ramadass, M.V.Ramanamoorthy and M.A. Atmanand

7: A Novel Mobile Information System for Risk Management of Adjacent Buildings in Urban Underground Construction
Hanh Quang Le and Bin-Chen Benson Hsiung

8: Comparison Between Design Methods Applied to Segmental Tunnel Linings
N.A. Do, D. Dias, P.P. Oreste, I. Djeran-Maigre

9: Challenging Construction Projects Related to Urban Tunnels
R. Katzenbach and S. Leppla

10: Bulk Compression of Dredged Soils by Vacuum Consolidation Method Using Horizontal Drains
Hiroshi Shinsha and Takahiro Kumagai

12: Mechanical Behavior of Energy Piles in Dry Sand
A.M. Tang, J.M. Pereira, G. Hassen, N. Yavari

13: Estimating Side Resistance of Bored Pile in Residual Soils
Mutiasani Dianmarti Kusuma and Eng-Choon Leong

14: Seismic Response of Geosynthetic Reinforced Earth Embankment by Centrifuge Shaking Table Tests
W.Y. Hung , J.H. Hwang , C.J. Lee

DECEMBER 2014: Offshore and Coastal Geotechnics
Editors: Shinji Sassa, Poul V. Lade, Lizhong Wang, Yean K. Chow, Dong S. Jeng, Christophe Gaudin & Fuping Gao

1: Recent Advances in Seabed Liquefaction and Its Implications for Marine Structures
B. Mutlu Sumer

2: Eulerian–Lagrangian Modeling of Current-Induced Coastal Sand Dune Migration
R. Sun, J. Wang, Y. Sakai and H. Xiao

3: Numerical Study of the Penetration Mechanism and Kinematic Behaviour of Drag Anchors Using a Coupled Eulerian-Lagrangian Approach
Haixiao Liu and Yanbing Zhao

4: Cyclic Pore Pressure Generation in Silty Soils under the Action of Combined Waves and Current
Yi-Fa Wang, Fu-Ping Gao, and Wen-Gang Qi

5: A Model for Predicting Pipeline Sinkage Induced by Tunnel Scour
Chengcai Luo, Hongwei An, Liang Cheng and David White

6: Predicting Spudcan Extraction Resistance in Soft Clay
Omid Kohan, Christophe Gaudin, Mark J. Cassidy, and Britta Bienen

7: A FE Procedure for Foundation design of Offshore Structures – Applied to Study a Potential OWT Monopile Foundation in the Korean Western Sea
H.P. Jostad, G. Grimstad, K.H. Andersen, M. Saue, Y. Shin, and D. You

8: Compressibility as an Indicator of Liquefaction Potential
M. Murat Monkul, Poul V. Lade, Ehsan Etminan, Aykut Senol

9: Centrifuge Modelling of the Seismic Responses of a Gently Sloped Liquefiable Sand Deposit Confined within Parallel Walls
C.J. Lee, W.Y. Chung, and W.Y. Hung

10: Eulerian Finite Element Analysis for Uplift Capacity of Circular Plate Anchors in Normally Consolidated Clay
Z. Chen, K. K. Tho, C. F. Leung and Y. K. Chow

11: Restoration Method of Artificial Tidal Flat by Use of Pressure Injection of Slurry Dredge Clay
Takahiro Kumagai, Takashi Tsuchida, Changjin Ko and Hiroaki

12: Tsunami-Seabed-Structure Interaction from Geotechnical and Hydrodynamic Perspectives
S. Sassa

Feature Storey on "Challenges in the Design of Tall Building Foundations"
Harry G Poulos

PART IV: BIODATA: GUEST EDITORS 2011 to 2014

1: YEAR 2011

March 2011 : Geosynthetics: Prof. Jie Han

Prof. Jie Han, the Guest Editor is a Professor at Department of Civil, Environmental, and Architectural Engineering at the University of Kansas in the United States. He received his Ph.D. degree in Civil Engineering from the Georgia Institute of Technology in 1997 and has been a professional engineer in Georgia since 1998. Dr. Han was a senior engineer and manager of technology development at Tensar Earth Technologies, Inc., a leading geosynthetic manufacturer in the world, from 1997 to 2001.

Prof. Han's research and practical experiences have dealt with geosynthetics-reinforced earth structures, ground improvement, pile foundations, and pavement applications Prof. Han has coauthored three technical books, edited two ASCE Geotechnical Special Publications, and published more than 150 peer-reviewed journal papers and conference papers (a large portion on geosynthetics). Prof. Han is currently serving as the Technical and Proceedings Co-chair for the GeoFrontiers 2011 Conference to be held in Dallas, Texas, USA from March 13 to 16, 2011, which is jointly organized by the ASCE Geo-Institute, the Industrial Fabrics Association International, the North American Geosynthetic Society, and the geosynthetic industry.

Prof. Han serves as a member on the editorial boards for four major international journals in geotechnical engineering, the ASCE Geosynthetic and Ground Improvement Committees, and TRB A2K07 Committee on Geosynthetics.

June 2011: Prof. Tatsunori Matsumoto

Guest Editors on Foundations

A special issue on **Deep Foundations** is also planned and to be edited by **Prof. Tatsunori Matsumoto** with the assistance of **Dr. Der Wen Chang** and this is expected in June 2011. **Professor Harry G. Poulos**, **Prof. Bengt Fellenius** and several others are expected to contribute in this issue together with Prof. Tatsunori Matsuoka.

Prof. Tatsunori Matsumoto
Prof. Matsumoto is now with Kanazawa University in Japan for nearly 32 years. He was educated at the Kanazawa University and received his Doctoral Degree from Kyoto University for his work on steel pipe piles in 1989. He has extensive research and practical experience on piled foundations and piled raft foundations. Prof. Matsumoto has a Shake Table Facility for the study of dynamic and earthquake type of behaviour of piled foundations. He has also worked on the centrifuge with pile groups and piled raft foundations in collaboration with Taisei Corporation. His research work on piled raft foundations range from the simplified calculation methods of Poulos - Davis and Randolph (PDR Method), Burland's method to approximate computer based methods such as the strip on spring and plate on spring approaches and hybrid methods. He has also worked on more rigorous method using boundary elements and finite elements. Prof. Matsumoto also has wide experience in the seismic design of raft and piled raft foundations. Prof. Matsumoto is one of the authors of the computer software PRAB—Piled Raft Analysis with Batter Piles. With this software piled raft foundation can be analyzed with vertical and horizontal loads as well as moment.

Prof. Der-Wen Chang

Prof. Der-Wen Chang teaches at The Department of Civil Engineering of Tamkang University (TKU), Taipei, Taiwan for over 19 years. He received Ph.D. in Civil Engineering at The University of Texas at Austin in 1991 and MS in Civil Engineering at Michigan State University in 1987. Prof. Chang has supervised the research work of over 60 Master Thesis and 3 Ph.D. Thesis at TKU, and published more than 160 articles as the Journal, Conf. papers and reports. Nearly all his research studies are related to numerical modeling and dynamic analyses for the geotechnical structures. His research experiences include NDT methods on pavements, seismic behaviors of the pile foundation, constitutive modeling of the soils, and recent study on the performance based design for the earth structures. Prof. Chang is also the visiting Professor at University of Washington at Seattle, US in 2008 and LN Gumilyov Eurasian National University at Astana, Kazakhstan for research studies in 2010. Other than the research works, Prof. Chang devotes himself a great deal to serve the communities. He involves heavily and indeed shows his good performance in the public works related to education and constructions. Prof. Chang is now serving as the Secretary General of Chinese Taipei Geotechnical Society, GC member of SEAGS, Editorial Panel for SEAGS/AGSSEA J. of Geotechnical Engineering, Committee members for Public Construction and Hazard Prevention in Taipei City and Taipei County governments. He will continue to work in the academia and hoping that his studies can better improve the civil engr. technologies.

September : Deep Excavations: Prof. Chang-Yu Ou

This special issue will have papers from China, Taiwan, Bangkok, Hong Kong, Singapore etc

Prof. Chang-Yu Ou received his Bachelor's Degree in Engineering in 1977 from National Cheng-Kung University in Taiwan and his Masters and Doctoral Degrees from Stanford University in 1984 and 1987 respectively. He has focused on studies of soil behavior and excavation problems since beginning to teach in a university and has published many journal and conference papers concerning the subjects. At the same time, working with industrial builders, he has also taken part in many large-scale excavation projects and accumulated experience in analysis and design. Supported by study results and analysis experience, he has opened a course on deep excavation at the university. He is currently the Dean of engineering at the National Taiwan University of Science and Technology, Taipei, Taiwan. He was also the Director of Ecological and Hazard Mitigation Engineering Research Center of the National Taiwan University of Science and Technology, Taipei, Taiwan. He was also a Visiting Professor at University of California, Berkeley. His areas of interest are deep excavations, soil behaviour, soft ground tunneling and ground improvement.

December : Soil Behavior: Dr. Dariusz Wanatowski

This issue will have articles from researchers in Nottingham, UK, Singapore, Bangkok, Australia, Japan and many other countries. From Japan, Prof. Satoru Shibuya's group will make contributions.

The editor, **Dr Dariusz Wanatowski** is a Lecturer in Geomechanics in the Department of Civil Engineering at the University of Nottingham. He graduated in Civil Engineering from Poznan University of Technology, Poland in 1999. Between 1999 and 2001 he worked as a teaching and research assistant at the same university where he was lecturing soil mechanics and foundation engineering courses. He was also involved in several research projects, including effects of various improvements of subgrade on its bearing capacity and experimental investigation of engineering properties of various organic soils. He obtained his PhD from Nanyang Technological University in 2006. Prior to joining the Nottingham Centre for Geomechanics in February 2006 Dr Wanatowski also worked as a researcher at NTU on effects of strength and stiffness anisotropy of geomaterials on the stability and deformation of tunnels. Dr Wanatowski's general research interests are focused on experimental geomechanics, particularly strain softening and instability behavior of granular soils, strain localization in sands, strength and stiffness anisotropy of geomaterials, and effects of intermediate principal stress on the strength and deformation characteristics of soils. He has consulting experience in the areas of laboratory and in situ testing of soils. He is also an Honorary Secretary for East Midlands Geotechnical Group in the UK.

2: YEAR 2012

March 2012 : Unsaturated Soil Mechanics And Engineering
Guest Editors: Prof. Charles W.W. Ng and Dr. Apiniti Jotisankasa

Professor Charles W.W. Ng is Chair Professor at the Department of Civil and Environmental Engineering and the Director of Geotechnical Centrifuge Facility at the Hong Kong University of Science and Technology. He obtained his Ph. D from the University of Bristol, UK in 1992; and subsequently joined the University of Cambridge as a Research Associate before returning to Hong Kong in 1995. He was elected as an Overseas Fellow at Churchill College, Cambridge, in 2005. Professor Ng is a Charted Civil Engineer (CEng) and Fellow of the Institution of Civil Engineers (FICE), the American Society of Civil Engineers (FASCE), the Hong Kong Institution of Engineers (FHKIE) and the Hong Kong Academy of Engineering Sciences (FHKEng). He holds the title of Chang Jiang Scholar (Chair Professorship) by the Ministry of Education in China and he is an appointed Board Member of the International Society of Soil Mechanics and Geotechnical Engineering. Currently Professor Ng is Associate Editor of the Canadian Geotechnical Journal. _He has published widely on slope instability problems, behaviour and mechanics of saturated and unsaturated soils, soil-structure interaction problems such as tunnels, piles and deep excavations. He is the main author of two reference books including "Soil-Structure Engineering of Deep Foundations, Excavations" and "Tunnels and Advanced Unsaturated Soil Mechanics and Engineering".

Dr. Apiniti Jotisankasa is currently an Assistant Professor at the Department of Civil Engineering, Kasetsart University Bangkok. After obtaining his BEng degree in Civil Engineering from Kasetsart University in 1999, he pursued his MSc and PhD in Soil Mechanics at Imperial College London with the generous support of the Anandamahidol Scholarship from Thailand. His research topics for the PhD degree was on the Collapse behaviour of a compacted silty clay: the work which culminated in several world-leading journal papers such as Geotechnique, and the ASCE Journal of Geotechnical and Geoenvironmental Engineering. After being awarded the PhD degree in 2005, he started working for Kasetsart University as a lecturer in geotechnical engineering and his research area has been mainly on application of unsaturated soil mechanics on practical geotechnical engineering problems, such as rainfall-induced landslide, excavation, embankment stability, bio-slope engineering, geohazard mitigation, etc. He also lead a team consisting of geotechnical as well as electrical engineers who develop a wireless system for monitoring of slope behaviour such as pore water pressure (negative/positive) and slope movement. Dr Apiniti is the recipient of the Best paper award (Geotechnical Engineering) in the National Convention in Civil Engineering 2009 from the Thai Geotechnical Society and Chai Mukthabhan foundation for his work on the behaviour of instrumented volcanic soil slope subject to rainfall. In 2011, he was awarded the Young Technologist Award from the Foundation for the Promotion of Science and Technology under the Patronage of His Majesty the King of Thailand. Dr. Apiniti has been secretary general of the Thai Geotechnical Society since 2009 and currently a member of the TC106 (Unsaturated soils) of the International Society of Soil Mechanics and Geotechnical Engineering.

June 2012: Geotechnical Earthquake Engineering: Prof. Ikuo Towhata

Prof. Ikuo Towhata
Prof. Ikuo Towhata had his engineering education at the prestigious Tokyo University in Japan and is currently a Professor in the Department of Civil Engineering. Tokyo University is traditionally very strong in Soil Dynamics, Machine Foundations and Geotechnical Earthquake Engineering now for several decades. Also recently, Prof. Towhata has written a comprehensive and scholarly book in this discipline (see Geotechnical Earthquake Engineering, 2008: publisher Springer). Prof. Towhata was also the Editor in Chief of the well known Journal, Soils and Foundations. He is an active member of several national and international committee on landslides, earthquake engineering. A recipient of several prestigious awards, Prof. Towhata's interest in Geotechnics is very wide and are on deformation characteristics of sands, dynamic analysis of earth structures, soil improvement by densification and grouting, stability of slopes and seabeds under static and dynamic conditions, landslides and debris flows, seismic performance based design of geotechnical structures. Author of more than 250 publications, Prof. Towhata has lectured in many leading universities in most continents.

Prof. Der-Wen Chang
Prof. Der-Wen Chang teaches at The Department of Civil Engineering of Tamkang University (TKU), Taipei, Taiwan for over 19 years. He received Ph.D. in Civil Engineering at The University of Texas at Austin in 1991 and MS in Civil Engineering at Michigan State University in 1987. Prof. Chang has supervised the research work of over 60 Master Thesis and 3 Ph.D. Thesis at TKU, and published more than 160 articles as the Journal, Conf. papers and reports. Nearly all his research studies are related to numerical modeling and dynamic anal-

yses for the geotechnical structures. His research experiences include NDT methods on pavements, seismic behaviors of the pile foundation, constitutive modeling of the soils, and recent study on the performance based design for the earth structures. Prof. Chang is also the visiting Professor at University of Washington at Seattle, US in 2008 and LN Gumilyov Eurasian National University at Astana, Kazakhstan for research studies in 2010. Other than the research works, Prof. Chang devotes himself a great deal to serve the communities. He involves heavily and indeed shows his good performance in the public works related to education and constructions. Prof. Chang is now serving as the Secretary General of Chinese Taipei Geotechnical Society, GC member of SEAGS, Editorial Panel for SEAGS/AGSSEA J. of Geotechnical Engineering, Committee members for Public Construction and Hazard Prevention in Taipei City and Taipei County governments. He will continue to work in the academia and hoping that his studies can better improve the civil engr. technologies.

Dr. Ivan Gratchev

Dr. Ivan Gratchev has spent the last ten years conducting research in the areas of geotechnical and geoenvironmental engineering in Japan, in particular earthquake-induced liquefaction and landslides. He qualified to receive a prestigious scholarship sponsored by the Japanese Government to complete his master and doctoral courses at Kyoto University. After receiving a PhD degree in 2007, he was selected for a highly competitive fellowship by the Japan Society for the Promotion of Science (JSPS) to conduct postdoctoral research at the University of Tokyo. His expertise in field investigation and laboratory testing led to his selection for several reconnaissance teams to assess structural damage and slope failures following recent earthquakes in Japan as well as the 2008 Sichuan Earthquake in China, and the 2009 earthquake in Sumatra. Since 2010, Dr. Gratchev has been a lecturer at Griffith University, one of the fastest growing universities in Australia. He has produced more than 30 publications in refereed journals, international proceedings, as well as book chapters on research topics such as slope stability, liquefaction, cyclic behaviour of fine-grained soils as well as the effects of contamination on the geotechnical properties of soil.

September 2012: Geosynthetics and Sanitary Landfills:

Prof. Malek Bouazza

Prof. Malek Bouazza is very prominent in technical and professional society activities and serves on a number of international technical committees. Currently, he is a member of the International Geosynthetics Society (IGS) council and chair of the Asian Activities Committee of the International Geosynthetics Society. He is a core member of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee No5 (TC5) on Environmental Geotechnics, Vice-President of the Australasian Chapter of the International Geosynthetics Society (ACIGS), co-chair of the International Geosynthetics Society Education Committee and a member of the Standard Australia committee C20 on Geosynthetics. He is editorial board member of 5 International Journals and very active as a reviewer for several international journals.

Dr. Bouazza has published widely in international journals and refereed conferences and is the author or co-author of more than 180 refereed publications... His skills and experience in the area of waste containment facilities and geosynthetics are well recognized in Australia and abroad. He has been invited to deliver and contribute to several keynote lectures and state of the art reports in international conferences in Africa, Asia, Europe and North America, and delivers short courses on geosynthetics, and liners and cover systems for waste containment facilities on a regular basis locally and internationally. In addition to his academic commitments, Dr. Bouazza gives specialist advice for the industry both nationally and internationally.

December : In-situ Tests and Instrumentation: Tom Lunne, NGI & Prof. Don De Groot

Tom Lunne

Tom Lunne educated in Heriot-Watt University in UK and in University of California Berkeley, is currently Technical Advisor and Manager of the Offshore Soil Investigations at NGI. He has wide geotechnical engineering background from both consulting and research. Major Fields of work relate to: Laboratory testing, In situ testing, Field observations, Evaluation of soil parameters; Planning, specifying and managing large offshore soil investigations. Tom has worked in major projects in Brazil, Benin, Denmark, Great Britain, India, Italy, Malaysia, Sweden, USA, Latvia, Mexico, Holland, Venezuela and Iceland. Among other projects, his activities have been with Duyong and Pulai Fields Shallow Gas Studies, Malaysia; Soil investigation Keilisnes, Harbour, Iceland; Zelazny Most Tailings Dam Poland; Tunu and SISI Shallow Gas Studies, Indonesia; and DeRuyter GBS soil investigation, Holland.

Tom has given invited lectures and presentations at conferences and courses in USA, Canada, Brazil, France, Poland, Italy, Norway, Sweden, India, Latvia, Lithuania, Iceland, Ireland, Holland, Japan, Great Britain, Aus-

tralia, Vietnam, Malaysia, Thailand, Singapore, Indonesia, Portugal, and Venezuela. He is a Core Member of Committee on In Situ Testing, TC-16,; International Society of Soil Mechanics and Foundation Engineering (1982-todate); Member of Scandinavian Committee on Field Investigations, 1993-2004; Chairman of Norwegian Committee on Field Investigations, 1993-2004; Member of Committee of European Standard of CPT, (2001 to date).

Author or co-author of more than 100 papers, publications and technical notes to professional journals and conferences, Tom is the main author of the popular textbook on Cone Penetration Tests.

Dr. Don DeGroot

Dr. Don J. DeGroot is a professor in the Department of Civil and Environmental Engineering at the University of Massachusetts Amherst and a registered Professional Engineer in the USA. He received his Doctor of Science degree in geotechnical engineering at the Massachusetts Institute of Technology in 1989. His teaching, research and consultancy experience is primarily in the area of soil behavior and environmental geotechnics with an emphasis on laboratory and field measurements for site characterization programs. Dr. DeGroot has been a Principal/Co-Principal Investigator on research projects sponsored by the USA DOD, FHWA, MassDOT, NCHRP, NSF, NRL and VTrans. He is currently PI of the $2.4 million NSF PIRE project on "Developing International Protocols for Offshore Sediments and their Role in Geohazards: Characterization, Assessment, and Mitigation." He has published refereed research findings in many of the major geotechnical engineering journals, ASCE Geotechnical Special Publications, ASTM Special Technical Publications and TRB publications. National and international conferences activities include several Keynote and State-of-the-Art papers and presentations. He has served on the editorial boards of the Journal of Geotechnical and Geoenvironmental Engineering and the Geotechnical Testing Journal and served as Chair of the ASCE Geo-Institute Soil Properties and Modeling Committee. Teaching and research awards include the James L. Tighe Civil Engineering Distinguished Teaching Award, United Technologies Corporation Outstanding Laboratory Teaching Award, Research Council of Norway Guest Researcher Fellowship, University of Western Australia Gledden Visiting Senior Fellowship, and the CEE Research Excellence Award.

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March 2013: Special Issue On Contributed Papers
Editors: Der-Wen Chang & Dariusz Wanatowski

Prof. Der-Wen Chang

Prof. Der-Wen Chang teaches at The Department of Civil Engineering of Tamkang University (TKU), Taipei, Taiwan for over 19 years. He received Ph.D. in Civil Engineering at The University of Texas at Austin in 1991 and MS in Civil Engineering at Michigan State University in 1987. Prof. Chang has supervised the research work of over 60 Master Thesis and 3 Ph.D. Thesis at TKU, and published more than 160 articles as the Journal, Conf. papers and reports. Nearly all his research studies are related to numerical modeling and dynamic analyses for the geotechnical structures. His research experiences include NDT methods on pavements, seismic behaviors of the pile foundation, constitutive modeling of the soils, and recent study on the performance based design for the earth structures. Prof. Chang is also the visiting Professor at University of Washington at Seattle, US in 2008 and LN Gumilyov Eurasian National University at Astana, Kazakhstan for research studies in 2010. Other than the research works, Prof. Chang devotes himself a great deal to serve the communities. He involves heavily and indeed shows his good performance in the public works related to education and constructions. Prof. Chang is now serving as the Secretary General of Chinese Taipei Geotechnical Society, GC member of SEAGS, Editorial Panel for SEAGS/AGSSEA J. of Geotechnical Engineering, Committee members for Public Construction and Hazard Prevention in Taipei City and Taipei County governments. He will continue to work in the academia and hoping that his studies can better improve the civil engr. technologies.

Dr. Dariusz Wanatowski

This issue will have articles from researchers in Nottingham, UK, Singapore, Bangkok, Australia, Japan and many other countries. From Japan, Prof. Satoru Shibuya's group will make contributions.

The editor, Dr Dariusz Wanatowski is a Senior Lecturer in Geomechanics in the Department of Civil Engineering at the University of Nottingham. He graduated in Civil Engineering from Poznan University of Technology, Poland in 1999. Between 1999 and 2001 he worked as a teaching and research assistant at the same university where he was lecturing soil mechanics and foundation engineering courses. He was also involved in several research projects, including effects of various improvements of subgrade on its bearing capacity and experimental investigation of engineering properties of various organic soils. He obtained his PhD from Nanyang Techno-

logical University in 2006. Prior to joining the Nottingham Centre for Geomechanics in February 2006 Dr Wanatowski also worked as a researcher at NTU on effects of strength and stiffness anisotropy of geomaterials on the stability and deformation of tunnels. Dr Wanatowski's general research interests are focused on experimental geomechanics, particularly strain softening and instability behavior of granular soils, strain localization in sands, strength and stiffness anisotropy of geomaterials, and effects of intermediate principal stress on the strength and deformation characteristics of soils. He has consulting experience in the areas of laboratory and in situ testing of soils. He is also an Honorary Secretary for East Midlands Geotechnical Group in the UK.

June 2013: Modelling Soil Behaviour

Prof. Akira Murakami

Prof. Akira Murakami received his BS (1978) at the Agricultural Engineering Department; MS (1980) at the Civil Engineering Department, and Dr. Agr. (1991) from Kyoto University (KU), respectively. In 1982, he became an Assistant Professor at the Agricultural Engineering Department of KU, and was promoted to an Associate Professor of KU in 1994. He moved to Okayama University with a promotion to Full Professor in 1999. After staying in Okayama for just 10 years, he moved back to a Full Professor of KU in 2009. He serves as the Vice President of the Japanese Geotechnical Society (JGS), the Board Member of the Japanese Society of Irrigation, Drainage and Rural Engineering (JSIDRE), and the International Association for Computer Methods and Advances in Geomechanics (IACMAG), and also is a core member of TC103 of ISSMGE and a member of the Multidisciplinary International Society on Inverse Problems in Science and Engineering. He had acted as the Secretary of TC34 of ISSMGE for two terms and gave a General Report of Numerical Methods at 16ICSMGE held in Osaka. He is the recipient of the Japanese Society of Civil Engineering (JSCE) Paper Award (1996), the JSIDRE Sawada Prize (2007), the JGS Best Accomplishment Award (2008), the JSIDRE Best Paper Award (2010), and is a Fellow of JSCE. His research interests include the data assimilation, inverse problem, finite element methods, mesh free methods, and DEM in geomechanics.

Prof. Angelo Amorosi

Associate Professor Angelo Amorosi of the Technical University of Bari will be the Guest Editor for the Issue on Constitutive Equations for soil Behaviour. Angelo had his education including his Doctoral Degree from University of Rome. He was also a Visiting Academic at the University of Oxford with Prof. Guy Houlsby. The research interest of Angelo is on : (1) Experimental investigation on the mechanical behaviour of clayey soils with particular reference to 'very small strain stiffness' as observed by dynamic testing technique; evolution of the mechanical response due to: strain induced 'structure' (i.e. bonding) degradation process, isotropic or anisotropic stress histories and recent cyclic stress history; (2) Constitutive modelling of saturated soils in the frame of multi-surface hardening plasticity; application of thermo-mechanical principles to the modelling of elastic and elasto-plastic coupled behaviour of saturated soils; (3) Constitutive modelling of masonry and its application to model ancient structures; Computational plasticity, with particular reference to implicit/explicit integration schemes for complex constitutive models; (4) Finite Element analyses of geotechnical boundary value problems: excavation and tunnelling in clayey soils, interaction between underground excavations and surface masonry structures, seismic site effects, seismic behaviour of earth dams and tunnels.
An active researcher with several sponsored research projects sponsored by the Italian Ministry of Education, Angelo has been a Referee for reviewing articles in many journals: Geotechnique, Canadian Geotechnical Journal, International Journal of Numerical Methods in Engineering, Acta Geotechnica, Italian Geotechnical Journal, International Journal of Numerical and Analytical Methods in Geomechanics, Geotechnical and Geological Engineering.Angelo has published very widely in Geotechnique; ASCE, Journal of the Geotechnical and Geoenviromental Engineering Division; International Journal of Numerical and Analytical Methods in Geomechanics; Italian Geotechnical Journal; Soil Dynamic and Earthquake Engineering. He has also published extensively in International and Regional Conferences.

Muhunthan Balasingham

Balasingam Muhunthan, Ph.D., P.E., F. ASCE, is Professor of Geotechnical Engineering in the Department of Civil and Environmental Engineering at Washington State University in Pullman, WA, USA. He is also the Founder and Director of the Washington Center for X-ray Computed Tomography established using grant funds from the US National Science Foundation and Murdock Trust Foundation. He has held visiting professorships at Cambridge University, the University of Auckland, and the Georgia Institute of Technology. Dr. Muhunthan received his undergraduate degree in Civil Engineering from the University of Peradeniya, Sri Lanka, and his MS and Ph.D. in Civil Engineering from Purdue University. Dr. Muhunthan's expertise is in the areas of computational and experimental geomechanics, critical state soil mechanics, unsaturated soil mechanics, multi-scale

modeling of materials, thermomechanics, bifurcations and instabilities in geomechanics, microstructure characterization and simulation of geomaterials and micromechanics of soils. He has also worked on a wide range of field problems in geotechnical engineering including landslides, dam failures, micropiles, horizontal drains for slopes, and rock fall protection measures. Dr. Muhunthan has received several national and international awards for his scholarly accomplishments. He is a recipient of all of the three top CEE Departmental awards at WSU; Outstanding Teaching, Excellence in Research, and the Leon Luck Most Effective Professor Awards. He also received the Outstanding Teacher Award from the College of Engineering and Architecture at WSU, the Crampton Prize by the Institution of Civil Engineers, UK, an International Fellowship Award from the National Science Foundation, Fellowships from Churchill College Cambridge, Purdue University, and Merit Scholarship from Peradeniya University. Dr. Muhunthan is a member of the Soil Properties and Modeling Committee of ASCE and serves on the editorial advisory board of the International Journal of Geomechanics. He was an editor of the Geotechnical News Magazine, has chaired many national and international conferences, and has presented a number of invited lectures in constitutive modeling of geomaterials.

Dr Hossam Abuel-Naga

Dr. Abuel-Naga has been appointed as Senior Lecturer in Geotechnical Engineering, School of Mechanical, Aerospace, and Civil Engineering, The University of Manchester, in 2011. Before, he was working as Senior Lecturer in Geomechanics Group, Department of Civil and Environmental Engineering, The University of Auckland, New Zealand. From 1995 to 2002, he worked for Misr Raymond Foundations, Egypt, specializing in design and construction of dewatering systems as well as soil investigation. In 2002, he joined the Asian Centre for Soil Improvement and Geosynthetics, Thailand, as Research Engineer where he worked on effective utilization of geosynthetics for environmental preservation and to mitigate existing geotechnical problems in Asia and the Pacific. From 2006 to 2008, he worked as a Research Fellow at Monash University, Australia.

Dr Abuel-Naga's research area is focused on soil behaviour under multi-physical coupled processes. Applications of this include nuclear waste disposal technology, methane hydrate mining technique, heat exchangers built-in in building foundations, ground improvement, landfill lining system, petroleum and other energy resource engineering, pavement thermo-chemo-mechanics, dynamics of pore space in agricultural soils, soil weathering, and more.

Dr. Abuel-Naga's research output includes about 50 publications during the last 5 years where 50% of them were appeared in international journals and one of his journal papers was given an award in 2008. Moreover, his research activities are recognized at the international level. He serves as a reviewer for most of A+ journals in his field. Furthermore, he was invited to serve as a panellist in the review of NSF-CAREER proposals submitted to the Geomechanics and Geomaterials Program and the Geotechnical Engineering program, USA. Finally, he is a member of the research team that won the prestigious NZ-Marsden Fund in 2010 regarding the behaviour of methane hydrate sediments.

Dr. Dariusz Wanatowski

Dr Dariusz Wanatowski is a Lecturer in Geomechanics in the Department of Civil Engineering at the University of Nottingham. He graduated in Civil Engineering from Poznan University of Technology, Poland in 1999. Between 1999 and 2001 he worked as a teaching and research assistant at the same university where he was lecturing soil mechanics and foundation engineering courses. He was also involved in several research projects, including effects of various improvements of subgrade on its bearing capacity and experimental investigation of engineering properties of various organic soils. He obtained his PhD from Nanyang Technological University in 2006. Prior to joining the Nottingham Centre for Geomechanics in February 2006 Dr Wanatowski also worked as a researcher at NTU on effects of strength and stiffness anisotropy of geomaterials on the stability and deformation of tunnels. Dr Wanatowski's general research interests are focused on experimental geomechanics, particularly strain softening and instability behavior of granular soils, strain localization in sands, strength and stiffness anisotropy of geomaterials, and effects of intermediate principal stress on the strength and deformation characteristics of soils. He has consulting experience in the areas of laboratory and in situ testing of soils. He is also an Honorary Secretary for East Midlands Geotechnical Group in the UK.

Dr. Suched Likitlersuang

Suched Likitlersuang received his bachelor degree in civil engineering from Chulalongkorn University, Thailand in 1998. He also received a full-scholarship to peruse his master in geotechnical engineering at Asian Institute of Technology, Thailand. During his master in 2000, he worked with Prof Bala on the constitutive soil modelling for Bangkok Clay. He received his D.Phil in civil engineering from the University of Oxford in 2004. He has worked on the developing of a constitutive model for soil mechanics based on a hyperplasticity framework under a supervision of Prof. Guy T. Houlsby.

He is currently an associate professor at the department of civil engineering, Chulalongkorn University. He is also members of the Thai Geotechnical Society and the Engineering Institute of Thailand. Dr. Suched has published more than 30 articles in international conference proceedings, 10 articles in international journals and 3 local books. His research interests include constitutive modelling for geomaterial and asphaltic concrete, stress-strain characteristic of soils, numerical analysis in geomechanics, geo-environments and geotechnical earthquake engineering.

September 2013: Numerical Analysis
Guest Editors: Prof. Fusao Oka & Prof. Helmut F. Schweiger

Prof. Fusao Oka

Prof. Oka is Professor of Civil and Earth Resources Engineering at Kyoto University in Japan. He has many years of experience in geomechanics with special emphasis on constitutive modeling of geomaterials, liquefaction analysis, strain localization problems and experimental works, numerical modeling of multi-phase materials such as chemo-thermo-hydro-mechanical modeling of Methane hydrate containing ground. His research expertise covers engineering applications such as soil liquefaction, consolidation and excavation problems with theoretical and experimental approach. Prof. Oka has particular interest in the viscoplastic modeling of geomaterials and related strain localization behavior. He gave a special lecture at the plenary session of 16th ICSMGE on computational geomechanics in 2005. He has published more than 200 papers in this field and has received many awards from the Japanese Geotechnical society (2005), Japan Society of Civil Engineers (1993), and IACMAG (1997, 2006). He has been serving as a chair of TC34 of ISSMGE on Prediction and Simulation Methods in Geomechanics and chaired the 4th International Workshop on Strain Localization and Bifurcation Theory for Soils and Rocks (1997), the ISSMGE International Symposium on Deformation and Progressive Failure in Geomechanics (1997), and the International Symposium on Prediction and Simulation Methods for Geohazard Mitigation by JGS and ISSMGE (2009), the 46th. Japan National conference on geotechnical Engineering(2011). He is currently serving as EBM of the International Journal of Numerical and Analytical Methods in Geomechanics, Computers and Geotechnics and the International Journal of Geomechanics and Geoengineering.

Prof. Akira Murakami

Prof. Akira Murakami received his BS (1978) at the Agricultural Engineering Department; MS (1980) at the Civil Engineering Department, and Dr. Agr. (1991) from Kyoto University (KU), respectively. In 1982, he became an Assistant Professor at the Agricultural Engineering Department of KU, and was promoted to an Associate Professor of KU in 1994. He moved to Okayama University with a promotion to Full Professor in 1999. After staying in Okayama for just 10 years, he moved back to a Full Professor of KU in 2009. He serves as the Vice President of the Japanese Geotechnical Society (JGS), the Board Member of the Japanese Society of Irrigation, Drainage and Rural Engineering (JSIDRE), and the International Association for Computer Methods and Advances in Geomechanics (IACMAG), and also is a core member of TC103 of ISSMGE and a member of the Multidisciplinary International Society on Inverse Problems in Science and Engineering. He had acted as the Secretary of TC34 of ISSMGE for two terms and gave a General Report of Numerical Methods at 16ICSMGE held in Osaka. He is the recipient of the Japanese Society of Civil Engineering (JSCE) Paper Award (1996), the JSIDRE Sawada Prize (2007), the JGS Best Accomplishment Award (2008), the JSIDRE Best Paper Award (2010), and is a Fellow of JSCE. His research interests include the data assimilation, inverse problem, finite element methods, mesh free methods, and DEM in geomechanics.

Prof. Helmut F. Schweiger (Graz University of Technology)

Helmut obtained his Ph.D. form the University College of Swansea, UK and teaches courses on Advanced Soil Mechanics and Computational Geomechanics at the Graz University of Technology, Austria. He has over 15 years experience in development and application of the finite element method in geotechnics. As a member of several international committees Helmut is involved in formulating guidelines and recommendations for the use of finite elements in practical geotechnical engineering.

Prof. Charles W.W. Ng

Professor Charles W.W. Ng is a Professor at the Department of Civil and Environmental Engineering, the Director of Geotechnical Centrifuge Facility and an Associate Dean of Engineering at the Hong Kong University of Science and Technology. He obtained his Ph. D from the University of Bristol, UK in 1992; and subsequently joined the University of Cambridge as a Research Associate before returning to Hong Kong in 1995. He was elected as an Overseas Fellow at Churchill College, Cambridge, in 2005. Professor Ng is a Charted Civil Engi-

neer (CEng) and Fellow of the Institution of Civil Engineers (FICE), the American Society of Civil Engineers (FASCE), the Hong Kong Institution of Engineers (FHKIE) and Hong Kong Academy of Engineering Sciences (FHKEng). Recently he has been elected as Chang Jiang Scholar (Chair Professorship) by the Ministry of Education in China and appointed as a Board Member of the International Society of Soil Mechanics and Geotechnical Engineering. Currently he is Associate Editor of the Canadian Geotechnical Journal. He has published widely on slope instability problems, behavior of saturated and unsaturated soils, soil-structure interaction problems such as tunnels, piles and deep excavations. He is the main author of two reference books including Soil-Structure Engineering of Deep Foundations, Excavations and Tunnels and Advanced Unsaturated Soil Mechanics and Engineering.

Dr. Dariusz Wanatowski

The editor, Dr Dariusz Wanatowski is a Lecturer in Geomechanics in the Department of Civil Engineering at the University of Nottingham. He graduated in Civil Engineering from Poznan University of Technology, Poland in 1999. Between 1999 and 2001 he worked as a teaching and research assistant at the same university where he was lecturing soil mechanics and foundation engineering courses. He was also involved in several research projects, including effects of various improvements of subgrade on its bearing capacity and experimental investigation of engineering properties of various organic soils. He obtained his PhD from Nanyang Technological University in 2006. Prior to joining the Nottingham Centre for Geomechanics in February 2006 Dr Wanatowski also worked as a researcher at NTU on effects of strength and stiffness anisotropy of geomaterials on the stability and deformation of tunnels. Dr Wanatowski's general research interests are focused on experimental geomechanics, particularly strain softening and instability behaviour of granular soils, strain localization in sands, strength and stiffness anisotropy of geomaterials, and effects of intermediate principal stress on the strength and deformation characteristics of soils. He has consultingexperience in the areas of laboratory and in situ testing of soils. He is also an Honorary Secretary for East Midlands Geotechnical Group in the UK.

December 2013: Special Commemorative Issue in Honour of Prof Dennes T. Bergado on his Retirement From AIT
Editors: Jinchun Chai & Shuilong Shen

Prof. Jinchun Chai

Prof. Chai got his bachelor of engineering degree from Tongji University in Shanghai, China in 1982; and master of engineering degree from the China Academy of Railway Science in Beijing, China in 1985. Then he got his Doctor of engineering degree from Asian Institute of Technology in Bangkok, Thailand in 1992 under the supervision of Prof. D. T. Bergado. Professor Chai is currently Professor of Geotechnical Engineering at the Department of Civil Engineering and Architecture, Graduate School of Science and Engineering, Saga University, Japan. His primary research interests are: (1) soft ground improvement; (2) geosynthetics; and (3) numerical analysis in geotechnical and geoenvironmental engineering.

He has written over 140 research papers (about 60 journal papers and over 80 conference papers) and two coauthored books, “Improvement techniques of soft ground in subsiding and lowland environment”, by : Bergado/Chai/Alfaro/Balasubramaniam;, Balkema (1994); and “Deformation analysis in soft ground improvement”, by Chai/Carter; Springer (2011). Professor Chai is a licensed Professional Engineer in Japan.

Prof. Shuilong Shen

Prof. Dr. Shui-Long Shen received his BSc. in Tunneling and Underground Space Technology from Tongji University in 1986 and his MPhil in Structural Engineering from the same university in 1989. He obtained his Ph.D. in Geotechnical Engineering from Saga University, Japan, in 1998. After Dr. Shen received his PhD, he worked in the Institute of Lowland Technology (ILT) as a lecturer from 1998 to 2001. During this period Dr. Shen served as an Associate Editor of Lowland Technology International-an International Journal. From 2001 to 2003, Dr. Shen worked in National Institute for Environmental Studies in Tsukuba-the Science City of Japan. In 2003, he joined the Department of Civil Engineering (DCE) of Shanghai Jiao Tong University (SJTU) as a faculty member. He is now the Department Head of DEC. From 2005 to 2010, Dr. Shen has been keeping collaboration with other international organization, e.g. Saga University, Virginia Tech, The University of Kansas, The University of Hong Kong as a guest professor.

Dr. Shen’s research interests focus on soft ground improvement and land subsidence due to withdrawal of liquid from underground. He published and/or edited five books, of which two conference proceedings published

by ASCE. Dr. Shen published more than 200 technical papers in Journals and International conferences, in which about 30 papers were published in International Journals.

Dr. Shen also serves as an editorial board member of four International Journals, e.g. Geotextiles and Geomembranes, Elseveir, and Geotechnical Engineering – SEAGS etc. and two domestic journals, e.g. Chinese Journal of Geotechnical Engineering.

4: YEAR 2014

March Issue: Geotechnics for Advancing Transport Infrastructure

Prof. Buddhima Indraratna

Prof. Buddhima Indraratna is currently Professor of Civil Engineering at the Faculty of Engineering, University of Wollongong. Concurrently, Buddhima is also the Research Director, Centre for Geomechanics and Railway Engineering; Program Leader ARC COE in Geotechnical Science and Engineering; and Node Coordinator, CRC for Rail Innovation.

Since his PhD from the Uni. of Alberta in 1987 Buddhima, made significant contributions to geotechnical and railway research have been acknowledged through numerous national and international awards, including the 2009 EH Davis Memorial lecture, regarded as one of the highest accolades within the Australian Geomechanics Society. Honoured as a Fellow of the Australian Academy of Technological Sciences and Engineering (FTSE) and as a recipient of the 2011 Engineers Australia Transport Medal and 2009 Business Higher Education Round Table (BHERT) award by Australian Commonwealth for Rail Track Innovations, his contributions to Transportation Geotechnics and Ground Improvement have been further acclaimed. He has published over 350 peer-reviewed articles (160+ Journal papers) and 5 research-based Books, and successfully supervised over 37 PhD graduates. His research income is approx. $1.2 M/year. He is the Founding Director of the Centre for Geomechanics and Railway Engineering (GRE). In this Centre, he is mentoring over a dozen full-time staff and overseeing the progress of over 30 PhD students. GRE is one of the three research centres forming the ARC Centre of Excellence in Geotechnical Sciences and Engineering (ARC-CGSE) funded recently (with Newcastle and UWA), of which he is a Program Leader. He is also the node coordinator of the CRC for Rail Innovation at UOW in charge of several rail track innovation projects including a real track design at Singleton, near Newcastle, NSW.

Dr.Cholachat Rujikiatkamjorn

Dr Cholachat is a Senior Lecturer at the Centre for Geomechanics and Railway engineering, School of Civil, Mining and Environmental Engineering, University of Wollongong . He received his B.Eng (1st Class Honours) from the Khonkaen University, Thailand in 2000 with a Masters (M Eng) from the Asian Institute of Technology, Thailand in 2002. He obtained his PhD in Geotechnical Engineering from the University of Wollongong in 2006. He received the Australian Geomechanic Society Thesis Award in 2006. In 2009, he received an award twice from the International Association for Computer Methods and Advances in Geomechanics (IACMAG) for an outstanding paper by an early career researcher, and the 2006 Wollongong Trailblazer Award for innovations in soft soil stabilisation for transport infrastructure. He recently secured an equivalent DECRA through the ARC Centre of Excellence in Geotechnical Science and Engineering with a grant of $680k for 3 years. His key areas of expertise include ground improvement for transport infrastructure and soft soil engineering. He has published over 75 articles in international journals and conferences. While maintaining a strong focus on quality teaching, to date, he has secured over $ 2 Million in research funding, mostly from external sources. He is currently a CI of two ARC-DP projects, 3 ARC-LP projects and a CRC-Rail project. He is currently the supervisor/co-supervisor of 10 HDR students and 4 Research Associates.

June 2014 : Foundations
Editors: Prof Tatsunori Matsumoto, Prof Jurgen Grabe & Prof Der Wen Chang

Prof Tatsunori Matsumoto

Prof. Matsumoto is now with Kanazawa University in Japan for nearly 32 years. He was educated at the Kanazawa University and received his Doctoral Degree from Kyoto University for his work on steel pipe piles in 1989. He has extensive research and practical experience on piled foundations and piled raft foundations. Prof. Mat-

sumoto has a Shake Table Facility for the study of dynamic and earthquake type of behaviour of piled foundations. He has also worked on the centrifuge with pile groups and piled raft foundations in collaboration with Taisei Corporation. His research work on piled raft foundations range from the simplified calculation methods of Poulos - Davis and Randolph (PDR Method), Burland's method to approximate computer based methods such as the strip on spring and plate on spring approaches and hybrid methods. He has also worked on more rigorous method using boundary elements and finite elements. Prof. Matsumoto also has wide experience in the seismic design of raft and piled raft foundations. Prof. Matsumoto is one of the authors of the computer software PRAB—Piled Raft Analysis with Batter Piles. With this software piled raft foundation can be analyzed with vertical and horizontal loads as well as moment.

Prof. Der-Wen Chang

Prof. Der-Wen Chang teaches at The Department of Civil Engineering of Tamkang University (TKU), Taipei, Taiwan for over 19 years. He received Ph.D. in Civil Engineering at The University of Texas at Austin in 1991 and MS in Civil Engineering at Michigan State University in 1987. Prof. Chang has supervised the research work of over 60 Master Thesis and 3 Ph.D. Thesis at TKU, and published more than 160 articles as the Journal, Conf. papers and reports. Nearly all his research studies are related to numerical modeling and dynamic analyses for the geotechnical structures. His research experiences include NDT methods on pavements, seismic behaviors of the pile foundation, constitutive modeling of the soils, and recent study on the performance based design for the earth structures. Prof. Chang is also the visiting Professor at University of Washington at Seattle, US in 2008 and LN Gumilyov Eurasian National University at Astana, Kazakhstan for research studies in 2010. Other than the research works, Prof. Chang devotes himself a great deal to serve the communities. He involves heavily and indeed shows his good performance in the public works related to education and constructions. Prof. Chang is now serving as the Secretary General of Chinese Taipei Geotechnical Society, GC member of SEAGS, Editorial Panel for SEAGS/AGSSEA J. of Geotechnical Engineering, Committee members for Public Construction and Hazard Prevention in Taipei City and Taipei County governments. He will continue to work in the academia and hoping that his studies can better improve the civil engr. technologies.

Univ.-Prof. Dr.-Ing. Jürgen Grabe

Prof. Grabe was educated in civil engineering at Hannover University/Germany and received his Doctoral Degree from Karlsruhe University/Germany for his work "Experimental and theoretical investigation of entire area compaction control using vibratory rollers" in 1992. Afterwards he worked in geotechnical consulting and construction companies for six years. In 1998 he became head of the Institute of Geotechnical Engineering and Construction Management at Hamburg University of Technology in Germany. He has extensive research and practical experience in physical, theoretical and numerical modelling in geotechnical engineering, especially in pile foundations, and marine geotechnics. Prof. Grabe has a complete soil mechanics laboratory and worked also on physical modelling in centrifuge in collaboration with University of Western Australia.

Prof. Grabe's main research topics are geotechnical engineering in general, and marine geotechnics in particular. His methodical background covers physical modelling (1g model tests and ng model tests in collaboration with UWA), theoretical modelling (single and multiphase models for saturated and unsaturated soils based on continuum approach), numerical modelling (grid and mesh-based methods like FDM, FVM and FEM for continuum approach; meshfree methods like SPH for continuum approach, and DEM for discontinuum approach). Prof. Grabe and his research group produced 257 publications in national and international journals and conferences since 1998.

From 2011 Prof. Grabe is vice president of Hamburg University of Technology, and is responsible for research in this function.

September 2014: Centrifuge Modelling of Geotechnical Infrastructures

Prof. B.V.S. Viswanadham

Prof. Viswanadham obtained his PhD (Dr.-Ing.) from the Ruhr-University of Bochum, Germany in November 1996. He obtained his Bachelor degree in Civil Engineering from the Andhra University, Visakhapatnam, India in 1987 and thereafter did his Master of Technology in Civil Engineering with Geotechnical Engineering as a specialization from the Indian Institute of Technology Madras (IIT Madras), Chennai, India in 1989. Before joining the Indian Institute of Technology Bombay (IIT Bombay) in December 1998, he worked as a Senior Project Officer, Department of Ocean Engineering, IIT Madras and as a Scientist, Geotechnical Engineering

Division, Central Road Research Institute, New Delhi for about eleven years. Currently, Prof. Viswanadham is working as a Professor in the department of Civil Engineering with geotechnical engineering as a specialization. The research interest of Prof. Viswanadham is on: (1) Centrifuge model studies on the behaviour of geotechnical structures; (2) Environmental Geotechnics with a special reference to landfill waste containment systems; (3) Ground improvement using Geosynthetics and studies on the behaviour of geosynthetic reinforced soil structures; (4) Natural hazard mitigation – landslides and slope protection; (5) Bulk utilization of waste materials especially coal ash. He has published 120+ technical papers in peer-reviewed international journals/International conferences/National conferences.

Prof. Viswanadham is a Co-ordinator of the National Geotechnical Centrifuge Facility available at IIT Bombay. He has focused in disseminating knowledge on centrifuge modelling to Students/Professionals through courses (for both undergraduate and post-graduate levels) and continuing education programme courses at IIT Bombay with an aim to establish centrifuge modelling technique as an essential tool for studying problems in geotechnical and Geoenvironmental Engineering. Prof. Viswanadham is the Member of the Technical Committee for Physical Modelling on Geotechnics (TC104) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), and the Chair of the Ist Asian regional workshop on the Centrifuge Modelling for Geotechnical Infrastructure to be held in IIT Bombay in November 14-16, 2012.

Prof. Christophe Gaudin

Prof. Gaudin graduated with a Doctorate in Engineering Science from the Ecole Centrale de Nantes in November 2002. He subsequently joined the Centre for Offshore Foundation Systems (COFS) in July 2003 and was appointed as Manager of the UWA centrifuge facilities. He was promoted Research Professorial Fellow in 2009 and hold since the position of Deputy Director of COFS. His research interests cover offshore anchoring systems and shallow foundations, pipeline-soil interaction and similitude principles associated with centrifuge modelling, for which he has authored 90+ referred publications.

As manager of the UWA centrifuge facilities and a team of 8 technicians, Prof Gaudin has focused on establishing centrifuge modelling techniques as an essential tool to assist the offshore industry in developing and designing foundation solutions. He has built a strong relationship with the offshore industry, raising over $3.5M of research funding and producing 50+ consulting reports.

Since 2010, Prof. Gaudin is the Chair of the Technical Committee for Physical Modelling on Geotechnics (TC104) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), and the Chair of the 8th International Conference on Physical Modelling in Geotechnics to be held in Perth in 2014. His goals as TC Chair for the current term are notably to increase awareness of centrifuge modelling techniques and capabilities in the geotechnical engineering community, both in academia and industry, and to support the emergence of new centrifuge centres around the world.

Prof. Tom Schanz

Prof. Tom Schanz received his PhD at ETH Zurich on the mechanical behavior of granular mixture. This period followed a PostDoc stay at Kagoshima University (Japan). Thereafter he received his habilitation at University Stuttgart (Germany). After ten years as Professor at Bauhaus-University Weimar (Germany) he is nowadays head of the Laboratory of Foundation Engineering, Soil- and Rock Mechanics at Ruhr-University Bochum, Germany. The laboratory is running currently two geotechnical centrifuges since about 30 years. Research projects involving these equipments cover all subjects from environmental engineering, natural hazard assessment and nowadays problems involving unsaturated soil mechanics. Beside the centrifuge center the laboratory is running an excellent equipped soil dynamics and clay lab. Tom's research papers cover a wide range of theoretical, experimental and numerical subjects, as unsaturated soil mechanics, physico-chemical clay behavior, constitutive models, earthquake engineering and application of numerical methods to geomechanical problems. Tom is member of international committees as Unsaturated soils and European Numerical methods, he is chairman of the German committee for Numerical Methods in Geotechnics.

Prof. Charles W.W. Ng

Prof. Charles W.W. Ng is Chair Professor at the Department of Civil and Environmental Engineering and the Director of Geotechnical Centrifuge Facility at the Hong Kong University of Science and Technology. He obtained his Ph. D from the University of Bristol, UK in 1992; and subsequently joined the University of Cambridge as a Research Associate before returning to Hong Kong in 1995. He was elected as an Overseas Fellow at

Churchill College, Cambridge, in 2005. Professor Ng is a Charted Civil Engineer (CEng) and Fellow of the Institution of Civil Engineers (FICE), the American Society of Civil Engineers (FASCE), the Hong Kong Institution of Engineers (FHKIE) and the Hong Kong Academy of Engineering Sciences (FHKEng). He holds the title of Chang Jiang Scholar (Chair Professorship) by the Ministry of Education in China and he is an appointed Board Member of the International Society of Soil Mechanics and Geotechnical Engineering. Currently Professor Ng is Associate Editor of the Canadian Geotechnical Journal. _He has published widely on slope instability problems, behaviour and mechanics of saturated and unsaturated soils, soil-structure interaction problems such as tunnels, piles and deep excavations. He is the main author of two reference books including "Soil-Structure Engineering of Deep Foundations, Excavations" and "Tunnels and Advanced Unsaturated Soil Mechanics and Engineering".

December 2014 : Offshore & Coastal Geotechnics

Dr. Shinji Sassa

Dr. Shinji Sassa is Head of Soil Dynamics Group at Port and Airport Research Institute, Japan. He obtained his Dr. Eng. from Kyoto University. He is best known for his seminal works on wave-induced seabed liquefaction that have been extensively cited worldwide. His main research areas are Waterfront and Coastal Geotechnics, Subaqueous Sediment Gravity Flows and Ecological Geotechnics. These pioneer and address the multidisciplinary research encompassing Geotechnics, Hydraulic/Coastal Engineering, Geophysics and Ecology. He was an invited panelist, twice, at the 15th and 17th International Conference on Soil Mechanics and Geotechnical Engineering, ISSMGE. He has been a member of the International Geoscience Programme of United Nations Educational, Scientific and Cultural Organization on Submarine Mass Movements and Their Consequences. He is also the Technical-Oversight-Committee nominated member of TC213 on Scour and Erosion of ISSMGE. He is the recipient of several distinguished awards, including the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, the Best Paper Award from the Japanese Geotechnical Society and the Presidential Award from PARI. His selected papers have been published in the world-leading journals in the diverse fields of geotechnics, geophysics and ecology such as Géotechnique, Journal of Geophysical Research, Geophysical Research Letters and Marine Ecology Progress Series concerning liquefaction, sediment transport and geomorphodynamics, submarine landslides, and benthic ecology in estuarine, coastal and marine area.

Prof. Poul V. Lade

Dr. Poul V. Lade joined The Catholic University of America (CUA) in Washington, D.C. in 2003. He was educated at the Technical University of Denmark in Copenhagen and received his Ph.D. degree at University of California at Berkeley in 1972. Before coming to CUA, he was on the faculty at UCLA for 21 years (1972-1993) before moving to The Johns Hopkins University in Baltimore (1993-1999) and to Aalborg University in Denmark (1999-2003). He was a member of Geotechnical Engineering Technical Group in Los Angeles from 1974 and he served as chairman in 1978-79.

Professor Lade's research interests in Geomechanics include experimental methods, three-dimensional stress-strain and strength behavior of soils during monotonic loading and large three-dimensional stress reversals, stability, instability and liquefaction of granular materials, time effects in soils, constitutive modeling of frictional materials such as soil, rock, and concrete employing elasticity and work-hardening, isotropic and kinematic plasticity theories, and deformation and stability analyses of foundation engineering problems. He has given numerous conference presentations and short courses on stress-strain behavior and constitutive modeling of soils in North America, Europe, Asia, and Australia/New Zealand. He has nearly 300 publications based on research performed with support from the National Science Foundation (NSF) and from the Air Force Office of Scientific Research (AFOSR). His Science Citation Index is approximately 3000 and his H-index is currently 29.
Professor Lade is a member of several geotechnical engineering societies and he currently serves as Editor for the Americas of Geomechanics and Engineering (Techno Press, Korea), and he serves on the Editorial Boards of six other journals dealing with Geomechanics and Geotechnical Engineering. He was awarded "Professor

Ostenfeld's Gold Medal for original contributions to engineering science research on behavior and constitutive modeling of soils" from the Technical University of Denmark in 2001, and he was elected member of the Danish Academy of Technical Sciences in 2001.

Prof. Li-zhong Wang

Prof. Lizhong Wang is a vice dean of Civil Engineering and Architecture College, Zhejiang university, China. He earned his Phd in Zhejiang University in 1995 and became a Professor in 2000. He was a visiting scholar in NGI in 2006. Prof. Lizhong Wang has been long engaged in the research on marine soil mechanics and marine geotechnology. His research includes the constitutive behavior of marine soils,offshore pipelines, mooring systems, subsea tunneling,seabed geohazards and offshore wind turbine foundations.

Prof. Lizhong Wang was granted the first prize in Scientific and Technological Progress Award of Chinese Universities in 2011(Rank No.1). His research achievements were successfully applied in more than 20 major projects both at home and abroad. He was granted one national invention patent and four utility patents. Besides, he participated in establishing standards and engineering design guide. He has published 108 Journal papers, including 34 SCI-indexed and 60 EI-indexed papers. His research achievements were recognized by the international peers and he was appointed as an international external evaluator in the joint project of Bangladesh and Norway.He organized International symposium of coastal & offshore geotechnics in 2012.

Prof. Y.K. Chow

Professor Chow Yean Khow joined the National University of Singapore (NUS) as a in 1982 and became a Professor in 1999. Prior to joining NUS, he practised as an offshore geotechnical engineer with Fugro Limited (UK), mainly involved in the design and installation of offshore foundations in the North Sea. He served as the Head of the Division of Geotechnical and Transportation Engineering from 1995 to 1998. He was the Deputy Head (Administration) of the Department of Civil Engineering from 1998 to 2000. From 2000 to 2003, he was Vice-Dean (Graduate Studies) and from 2003 to May 2008 Vice-Dean (Academic Affairs & Graduate Studies) of the Faculty of Engineering. He is the Executive Director of the Centre for Offshore Research & Engineering (CORE) from July 2008.

Professor Chow's main research interests are in offshore foundation engineering, offshore pipelines/risers, computational geomechanics, soil-structure interaction, piles and piled raft foundations, and effects of construction activities such as deep excavations and tunnelling on pile foundations. He has published extensively, with over 200 technical publications including over 80 in international refereed journals. He is on Editorial Board of the following international journals: International Journal of Geomechanics (ASCE), Computers and Geotechnics (Elsevier), and Geomechanics and Geoengineering (Taylor & Francis). He is a member of the Board of Directors of the International Association for Computer Methods and Advances in Geomechanics. He is a Registered Professional Engineer (Civil) and a Specialist Professional Engineer in Geotechnical Engineering in Singapore. He has served as geotechnical consultant to numerous projects in Singapore and the region.

Prof. Dong Sheng Jeng

Prof. Dong Sheng Jeng is currently at Division of Civil Engineering, the School of Engineering, Physics and Mathematics, University of Dundee. He was educated in National Chung-Hsing University in Taiwan and received his Doctoral Degree from the University of Western Australia. Prof. Jeng was also at the Griffith University and University of Sydney before as a staff member. Prof. Jeng has been working in the area of offshore geotechnics since 1993. His most significant contributions have been in the field of coastal geotechnical engineering, specifically issues associated with wave–seabed–structure interaction (WSSI), which have a major bearing on the understanding and construction of coastal structures. He established the first analytical solutions for the inherent problems of WSSI in 3D short-crested wave systems and revised the conventional consolidation equation for anisotropic seabeds with variable permeability to obtain closed-form solutions. His 3D models allow the determination of wave-induced oscillatory liquefaction in front of breakwaters under obliquely incident wave; this represents the most dangerous condition and one that cannot be dealt with using either 1D or 2D models.

My analytical solutions have been widely used for verifying numerical simulations and for determining wave surface profiles using measured pore pressure in marine sediments. These solutions were the basis of a major chapter in 'The mechanics of scour in the marine environment' (Chapter 10, Sumer & Fredsøe, 2002) and have been widely used by coastal engineers for the prediction of wave-induced oscillatory liquefaction around marine structures and the installation of in situ facilities.

Currently, Prof. Jeng and his students are working on the development of poro-elastoplastic models for post-liquefaction and densification in marine sediment under dynamic loadings (such as waves, currents and earthquakes etc.). This is also part of his current EU project—MERMAID (2012-2016). They are also establishing new conceptual model for pore pressure accumulations in marine sediment with instant cyclic shear stresses, unlike the existing models based on the maximum cyclic shear stresses.
Prof. Jeng has won a large number of competitive research grants in offshore and coastal geotechnics and has published in most of the leading Geotechnical Engineering and other journals; His journal publications exceed over one hundred.

Prof. Christophe Gaudin

Prof. Gaudin graduated with a Doctorate in Engineering Science from the Ecole Centrale de Nantes in November 2002. He subsequently joined the Centre for Offshore Foundation Systems (COFS) in July 2003 and was appointed as Manager of the UWA centrifuge facilities. He was promoted Research Professorial Fellow in 2009 and hold since the position of Deputy Director of COFS. His research interests cover offshore anchoring systems and shallow foundations, pipeline-soil interaction and similitude principles associated with centrifuge modelling, for which he has authored 90+ referred publications.

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Since 2010, Prof. Gaudin is the Chair of the Technical Committee for Physical Modelling on Geotechnics (TC104) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), and the Chair of the 8th International Conference on Physical Modelling in Geotechnics to be held in Perth in 2014. His goals as TC Chair for the current term are notably to increase awareness of centrifuge modelling techniques and capabilities in the geotechnical engineering community, both in academia and industry, and to support the emergence of new centrifuge centres around the world.

Prof. Fuping Gao

Prof. Fuping Gao is a Principal Investigator at the Key Laboratory for Mechanics in Fluid Solid Coupling Systems (LMFS) and serving as the Director of Division of Science-Technology & Finance, Institute of Mechanics, CAS. He obtained his Master degree in Geotechnical Engineering from Beijing Jiaotong University, and PhD in Offshore Engineering Mechanics from Institute of Mechanics CAS. He was a visiting Research Assistant at Hong Kong University of Science and Technology (HKUST) in 2000; a Post-doctoral Research Fellow at the Griffith University, and the University of Western Australia (2001-2002).

His research activities involve offshore seabed/soil dynamics and fluid-structure-soil interaction modeling with applications in the offshore engineering, with recent focuses on stability analyses of submarine pipeline and riser systems, foundations for offshore renewable energy exploitation, etc. He serves as Vice Chair of the Technical Committee of Geotechnics of Soil Erosion, International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), TPC member of the International Society of Offshore and Polar Engineering (ISOPE); also serves on the editorial board of the Journal of Hydrodynamics, Theoretical and Applied Mechanics Letters, Chinese Journal of Geotechnical Engineering.

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SIMSG ISSMGE

ISSMGE Bulletin

Volume 9, Issue 1
February 2015

International Society for Soil Mechanics and Geotechnical Engineering
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Research Highlights

Universitat Politècnica de Catalunya (UPC)
The Geotechnical Engineering and Geomechanics group

Introduction

The Geotechnical Engineering and Geomechanics group of UPC is in charge of teaching at undergraduate and graduate levels of the Civil and Geological Engineering degrees. No less than 35 Doctorate students and a similar number of Master students develop their activity under the guidance of thirteen full time staff members. The group is active in four aspects of research: the contribution to fundamental understanding and modelling of soil and rock behaviour, the development of advanced computational tools and testing techniques and the participation in applied engineering projects. Achieving a proper balance among these aspects has been a permanent objective of the group over the years. In the computational field the Program "Code_Bright", which is continuously being updated, is a reference for the analysis of coupled thermal, hydraulic, mechanical and chemical processes in porous media. The laboratory has specialized in multi-physical testing. It is well known for the in-house design and development of special prototypes, instrumentation and medium-scale cells which are in operation in Universities and research centres around the world. Cooperation with Industry and Public Institutions has been very active in underground nuclear waste storage, large civil engineering projects and geological risk.

2015 ▸ January - June

Sixth International Geotechnical Symposium 2015
Date: Wednesday 21 January 2015 - Friday 23 January 2015
Location: IIT Madras, Chennai, Tamilnadu, India
Language: English
Organizer: IIT Madras and IGS Chennai
Contact person: Dr. R.G. Robinson
Address: Department of Civil Engineering, IIT Madras, 600036, Chennai, Tamil Nadu ,India
Phone: 914422574286 / E-mail: robinson@iitm.ac.in
Website: http://igschennai.in/6igschennai2015

12th Australia and New Zealand Conference on Geomechanics – The Changing Face of the Earth: Geo-Processes & Human Accelerations
Date: Sunday 22 February 2015 – Wednesday 25 February 2015:
Location: Wellington, New Zealand
Contact person: Amanda Blakey
E-mail: secretary@nzgs.org

XVI African Regional Conference on Soil Mechanics and Geotechnical Engineering - Innovative Geotechnics for Africa
Date: Monday 27 April 2015 - Thursday 30 April 2015
Location: Hammamet, Tunisia
Language: English and French
Organizer: ATMS
Contact person: Mehrez Khemakhem
Phone: +216 25 956 012 / E-mail: organisation@cramsg2015.org
Website: www.cramsg2015.org

ISP7 - PRESSIO 2015
Date: Friday 01 May 2015 - Saturday 02 May 2015
Location: Hammamet, Tunisia
Organizer: Tunisian Association of Soil Mechanics (ATMS)
Contact person: Dr Wissem Frikha
Address: Enit BP37, 1000 Le Belvedere, Tunis, Tunisia
Phone: +21698594970 / E-mail: Isp7_organisation@cramsg2015.org
Website: http://www.cramsg2015.org/isp7-pressio2015/?lang=en

International Conference CIGOS-PARIS 2015
Date: Monday 11 May 2015 - Tuesday 12 May 2015
Location: ENS Cachan,Cachan,Ile de France,France
Language: English and French
Organizer: ENS Cachan, ESTP, ECP, GCMM, AVSE
E-mail: secretariat@cigos.org
Website: http://www.cigos.org/

ISFOG 2015
Date: Wednesday 10 June 2015 - Friday 12 June 2015
Location: Holmenkollen Park Hotel Rica, Oslo, Norway
Language: English
Organizer: NGI
Contact person: Vaughan Meyer - NGI
Address: PO Box 3930 Ullevaal Stadion,N-0806,Oslo, Norway
Phone: +47 22 02 30 00 / Fax: +47 22 23 04 48
E-mail: isfog2015@ngi.no / Website: www.isfog2015.no

3rd International Conference on the Flat Dilatometer DMT'15
Date: Monday 14 June 2015 - Wednesday 16 June 2015
Location: Parco dei Principi Grand Hotel & SPA , Rome, Italy
Language: English
Contact person: Simona Rebottini - Studio Prof. Marchetti
Address: via Bracciano 38, 00189 Rome, Italy
Phone: 0039 06 30311240
Fax: 0039 06 30311240
E-mail: simona@marchetti-dmt.it
Website: www.dmt15.com

XVI European Conference on Soil Mechanics and Geotechnical Engineering
Date: Sunday 13 September 2015 - Thursday 17 September 2015
Location: Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom
Language: English
Organizer: British Geotechnical Association
Contact person: Derek Smith
Address: Coffey Geotechnics Limited, The Malthouse, 1 Northfield Road, Reading, Berkshire, RG1 8AH, Reading, UK
Phone: +44 1189566066 / Fax: +44 1189576066
E-mail: derek_smith@coffey.com
Website: http://www.xvi-ecsmge-2015.org.uk/

Workshop on Volcanic Rocks & Soils
Date: Thursday 24 September 2015 - Friday 25 September 2015
Location: Isle of Ischia, Italy
Language: English
Organizer: Associazione Geotecnica Italiana (AGI)
Contact person: Ms. Susanna Antonielli
Address: Viale dell'Università 11, 00185, Roma, Italy
Phone: +39 06 4465569 - +39 06 44704349
Fax: +39 06 44361035
E-mail: agi@associazionegeotecnica.it
Website: http://www.wvrs-ischia2015.it/

6th International Conference on Earthquake Geotechnical Engineering
Date: Monday 02 November 2015 - Wednesday 04 November 2015
Location: Christchurch, New Zealand
Contact person: The Conference Company
Address: PO Box 3727, Christchurch, New Zealand
Phone: +64 3 365 2217 / Fax: +64 3 365 2247
E-mail: 6icege@tcc.co.nz
Website: http://www.6icege.com

The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering -New Innovations and Sustainability
Date: Monday 09 November 2015 - Friday 13 November 2015
Location: Fukuoka International Congress Center, Fukuoka, Kyushu, Japan
Language: English
Organizer: The Japanese Geotechnical Society
Contact person: Toshifumi Mukunoki
Address: 2-39-1 Kurokami, Chuou-ku, Kumamoto, JAPAN,860-8555,Kumamoto, Japan
Phone: +81-96-342-3535
Fax: +81-96-342-3535
E-mail: 15tharc@kumamoto-u.ac.jp
Website: http://www.jgskyushu.net/uploads/15ARC/

XV Pan American Conference on Soil Mechanics and Geotechnical Engineering
Date: Sunday 15 November 2015 - Wednesday 18 November 2015
Location: Hilton Hotel, Buenos Aires, Buenos Aires, Argentina
Language: Spanish - Portuguese - English (simultaneous translation)
Organizer: Argentinean Society for Soil Mechanics and Geotechnical Engineering
Contact person: Dr. Alejo Oscar Sfriso
Address: Rivadavia 926 Suite 901,C1002AAU, Buenos Aires, Buenos Aires, Argentina
Phone: +541143425447
Fax: +541143423160
E-mail: presidente@saig.org.ar
Website: www.panam2015.com.ar

Geo-Environment and Construction European Conference
Date: Thursday 26 November 2015 - Saturday 28 November 2015
Location: Polis University, Tirana, Albania
Language: Albanian, English
Organizer: Polis University, Albanian Geotechnical Society and Co-PLAN
Contact person: Msc. Eng. Erion Bukaçi
Address: Polytechnic University of Tirana, Faculty of Civil Engineering,1001, Tirana, Albania
E-mail: erion.bukaci@gmail.com, Correspondence and information, MSc. Eng. Erdi Myftaraga (erdi.myftaraga@hotmail.com), Prof. Dr. Luljeta Bozo (lulibozo@gmail.com)

The 1st International Conference on Geo-Energy and Geo-Environment (GeGe2015)
Date: 4th and 5th December 2015
Location: The Hong Kong University of Science and Technology (HKUST), Hong Kong
Language: English
Organizers: HKUST, Chongqing University, Hohai University and Zhejiang University in mainland China, and EPFL in Switzerland
Contact person: Ms Shirley Tse
Address: The Geotechnical Centrifuge Facility, HKUST, Clear Water Bay, Kowloon, Hong Kong
Phone: +852-2358-0216 / Fax: +852-2243-0040
E-mail: gege2015@ust.hk
Website: http://gege2015.ust.hk

2016

NGM 2016, The Nordic Geotechnical Meeting
Date: Wednesday 25 May 2016 - Saturday 28 May 2016
Location: Harpan Conference Centre, Reykjavik, Iceland
Language: English
Organizer: The Icelandic Geotechnical Society
Contact person: Haraldur Sigursteinsson
Address: Vegagerdin, Borgartún 7, IS-109, Reykjavik, Iceland
Phone: +354 522 1236
Fax: +354 522 1259
E-mail: has@vegagerdin.is
Website: http://www.ngm2016.com

GeoChina 2016
Date: Monday 25 July 2016 - Wednesday 27 July 2016
Location: Shandong, China, Shandong, China
Language: English
Organizer: Shandong University in Cooperation with Shandong Department of Transportation and University of Oklahoma
Contact person: Antony Warden
Address: Shanghai, China
Phone: +86-021-54721773
E-mail: geochina.sec@gmail.com
Website: http://geochina2016.geoconf.org/

3rd ICTG International Conference on Transportation Geotechnics
Date: Sunday 04 September 2016 - Wednesday 07 Sept. 2016
Location: Vila Flor Cultural Centre and University of Minho, Guimaraes,, Portugal
Language: English
Organizer: Host: Portuguese Geotechnical Society and University of Minho
Contact person: Prof. A. Gomes Correia (Chair)
Address: University of Minho, School of Engineering, 4800-058, Guimarães, Portugal
Phone: +351253510200 / Fax: +351253510217
E-mail: agc@civil.uminho.pt
Website: http://www.webforum.com/tc3

13 Baltic States Geotechnical Conference
Date: Thursday 15 Sept 2016 - Saturday 17 Sept 2016
Location: Vilnius University, Vilnius, Lithuania
Language: English
Organizer: Baltic Sea states Geotechnical Societies / Main organizer Lithuanian Geotechnical Society
Contact person: Danutė Sližytė
Address: Saulėtekio ave. 15-510, LT-10224,Vilnius, Lithuania
Phone: +37068690044 / Fax: +37052500604
E-mail: danute.slizyte@vgtu.lt
Website: http://www.13bsgc.lt

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Geosynthetics 2015
Date: Sunday 15 February 2015 - Wednesday 18 Feb. 2015
Location: Oregon Convention Center, Portland, Oregon, USA
Language: English
Organizer: Industrial Fabrics Association International / Geosynthetics Materials Association
Contact person: Barbara Connett
Address: 1801 County Road B West, 55113 Roseville, Minnesota, USA
Phone: 651 225 6914 / Fax: 651 631 9334
E-mail: bjconnett@ifai.com
Website: http://www.geosyntheticsconference.com

International Conference in Geotechnical Engineering - ICGE-Colombo 2015
Date: Monday 10 August 2015 - Tuesday 11 August 2015
Location: Colombo, Colombo, Sri Lanka
Language: English
Organizer: Sri Lankan Geotechnical Society
Contact person: Eng. K. L. S. Sahabandu
Address: Central Engineering Consultancy Bureau, 415, Bauddhaloka Mawatha, Colombo 7,Sri Lanka
Phone: +94 11 2668803 / Fax: +94 11 2687369
E-mail: gm@cecbsl.com ; sahabandukls@gmail,com
Website: www.slgs.lk

The 2nd International Symposium on Transportation Soil Engineering in Cold Regions (TranSoil-Cold2015)
Date: Thursday 24 Sept 2015 - Saturday 26 Sept 2015
Location: Siberian State University of Railway Engineering, Novosibirsk, Russia
Description: The 2nd International Symposium on Transportation Soil Engineering in Cold Regions
Language: English, Russian
Organizer: Universities of Russia, China, USA
Contact person: Yury Moryachkov
Address: Novosibirsk, Russia
E-mail: transoilcold@inbox.ru
Website: http://transoilcold2015.stu.ru/

5th International Symposium on Geotechnical Safety and Risk (ISGSR 2015)
Date: Tuesday 13 October 2015 - Friday 16 October 2015
Location: WTC, Rotterdam, The Netherlands
Language: English
Organizer: KIVI, GEOSnet, Geo Impuls
Contact person: Maarten Profittlich
Address: Zekeringstraat 41A,1014BV,Amsterdam, The Netherlands
Phone: +31206510800
E-mail: nssmge@kivi.nl
Website: www.isgsr2015.org

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









Southeast Asian Geotechnical Society

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.








ISSMGE & ARC

3 The ability to attend, participate, and avail of 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).

15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering

(15ARC)

New Innovations and Sustainability

9-13 November 2015

Fukuoka, Japan

The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (15ARC) will be held under the auspices of the Japanese Geotechnical Society (JGS) in the City of Fukuoka, Kyushu, Japan on 9th – 13th of 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.

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 is 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.

The JGS has previously hosted ARC twice: once in Tokyo 1963 and once in Kyoto 1987. This means that over a quarter of a century has passed since the last conference was held in Japan. Therefore, 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.

CONTACT DETAILS:

15ARC Secretariat

2-39-1 Kurokami, Chuo-ku, Kumamoto City, Kumamoto, Japan

ZIP cord: 860-8555

TEL & FAX: +81-96-342-3535

E-mail address: 15tharc@kumamoto-u.ac.jp

Visit links below for more details:

19TH SOUTHEAST ASIAN GEOTECHNICAL CONFERENCE & 2ND AGSSEA CONFERENCE

19SEAGC-2AGSSEA

Deep Excavation and Ground Improvement

31 May - 3 June 2016

Dorsett Grand Subang, Subang Jaya, Malaysia

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

Bulletin No. 1

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.

SUBMISSION OF ABSTRACT

The Organizing Committee of the 19SEAGC-2AGSSEAC cordially invites you to submit abstract(s) of not more than 200 words for the Conference by e-mail to: seagc2016@gmail.com

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

The Conference covers a broad range of themes related to geotechnical engineering, including but not limited to:

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

IMPORTANT DATES:

Abstract submission ▸ **31 March 2015**

Notification of acceptance of abstract ▸ **31 May 2015**

Deadline for submission of full paper ▸ **31 October 2015**

Notification of acceptance of full paper ▸ **31 January 2016**

The Conference language shall be English.

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Co-Chairman: Ir. Dr. Teik Aun Ooi

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Honorary Treasurer: Ir. Kenny Yee

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Technical Papers: Ir. Dr. Swee Huat Chan

OPENING KEYNOTE ADDRESS

Dr. Za-Chieh Moh will deliver the Opening Keynote Address.

CHIN FUNG KEE LECTURE

Prof. Kenji Ishihara will be the Chin Fung Kee Lecturer.

ZA-CHIEH MOH LECTURE

Prof. Harry Poulos will be the Za-Chieh Moh Lecturer.

S L LEE LECTURE

Prof. Jian Chu will be the S L Lee Lecturer.

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SGI - Line

- *http://www.swedgeo.se/templates/SGIStandardPage____184.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 goenvironmental 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, ets, 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).

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.

- *http://www.icevirtuallibrary.com/content/journals*

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/*

TAGAsoft *http://www.tagasoft.com/TAGAsoft*

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

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

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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 16th 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 15th 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 14th 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
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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
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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 deliver 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: _____

Note for Subscribers:

- Back issues :
  - Volume no. 40 (Year 2009) are available at the rate of US$ 50 (four issues per year)
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- Rate include surface mailing.
- Air mail Rate: Asian Zones US$ 6, Other Zones US$ 10

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

Secretary-General
Southeast Asian Geotechnical Society
c/o Asian Institute of Technology
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P.O. Box 4, Klong Luang
Pathumthani 12120, Thailand
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