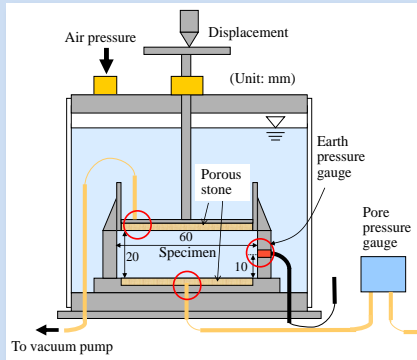


FEBRUARY 2014 NEWSLETTER

SEAGS Southeast Asian Geotechnical Society • **AGSSEA** Association of Geotechnical Societies in Southeast Asia



(a) Vertical drainage test set up



(b) View of the consolidation cell

1. Vacuum and Surcharge Loadings in Oedometer Test (after Chai *et al*, 2013)



2. Distribution of Soft Clay Deposits in Southeast Asia (after Long *et al*, 2013)



3. Deep mixing using High Pressure Jet (after Kitazume, 2013)

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Editors

Dr. Noppadol Phienwej
SEAGS Hon. Secretary General

Ir. Kenny Yee
AGSSEA Hon. Secretary General

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	Dr. Chung Tien Chin	Taiwan
	Prof. Dennes T. Bergado	Thailand
	Ir. Raymond Chan	Hong Kong
	Dr. Jack Pappin	Hong Kong

PREAMBLE

This February 2014 issue of the SEAGS-AGSSEA Newsletter brings you important changes to the E-Newsletter of the SEAGS & AGSSEA. Firstly the layout has been changed for easy access. The E-Journal has made tremendous progress since 2010 and the issues are published ahead of time. The March 2014 issue has been sent for posting on the website. The password system has introduced controlled access to the E-Journal papers. The SEAGS secretariat at AIT has been working very hard. We have papers for publication until 2017. Thanks are due the guest editors, reviewers and the authors of papers for their dedication and supports. The persistent and untiring effort of Prof A S Balasubramaniam has made these changes possible. The SEAGS-AGSSEA Journal is EI and SCI indexed.

SEAGS/AGSSEA E-JOURNAL

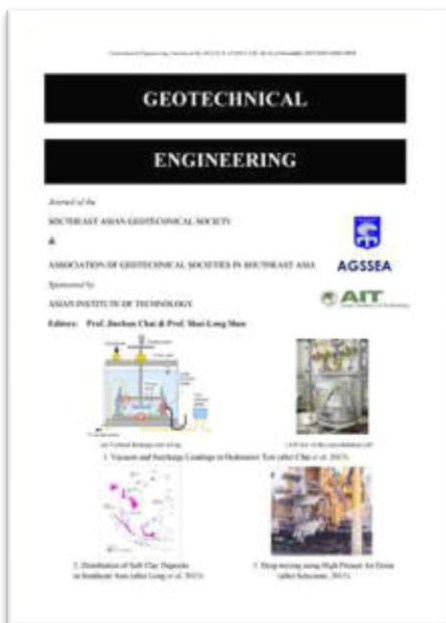
December 2013 Issue

PREFACE

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.



Prof. Dennes T. Bergado



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.

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

ACKNOWLEDGEMENT

It is a great pleasure to write this acknowledgement for the December 2013 Issue dedicated to honour Prof. Dennes T. Bergado's retirement from the Asian Institute of Technology. At the very first sincere thanks must go to the guest editors Prof. Jinchun Chai and Prof. Shuilong Shen. They really did a magnificent job in making this volume possible with thirteen excellent papers; all related to ground improvement and from world-wide reputed authors.



Grateful acknowledgement is also made to the contributing authors: J.-C. Chai, J. P. Carter, A. Saito and T. Hino; Ennis M. Palmira, André R.S. Feel and Gregorian. L. S. Araújo; X. Yang and J. Han; J. K. Lee and J.Q. Shang; P.V. Long, D.T. Bergado, L.V. Nguyen and A.S. Balasubramaniam; Han-Yong Jeon and Yuan Chun Jin; P. Voottipruex and D.T. Bergado, and W. Wongprasan; C. Taechakumthorn and R.K. Rowe; C. Rujikiatkamjorn and B. Indraratna; Z.F. Wang, S.L. Shen, C.E. Ho and Y.H. Kim; Masaki Kitazume; Wei Guo, Jian Chu and Shuwang Yan; S. Horpibulsuk, C. Suksiripattanapong and A. Chinkulkijniwat; and H.M. Abuel-Naga, G.A. Lorenzo and D.T. Bergado.

There are fourteen excellent papers in this issue on: Behaviour of Clay Subjecting to Vacuum and Surcharge Loading in an Oedometer; Behaviour of Geogrid Reinforced Abutments on Soft Soil; Geocell-Reinforced Granular Fill under Static and Cyclic Loading: A Synthesis of Analysis; Electrical Vertical Drains in Geotechnical Engineering Applications; Design and Performance of Soft Ground Improvement Using PVD with and without Vacuum Consolidation; Reassessment of Long-Term Performance of Geogrids by Considering Mutual Interaction among Reduction Factors; Simulations of PVD Improved Reconstituted Specimens with Surcharge, Vacuum and Heat Preloading using Axisymmetric and Equivalent Vertical Flow Conditions; Reinforced Embankments on Soft Deposits: Behaviour, Analysis and Design; Current State of the Art in Vacuum Preloading for Stabilising Soft Soil; Jet Grouting Practice: an Overview; Deep Mixing Method in Japan; Recent Studies of Geosynthetic Tubes and Mattress: an overview; Design Method for Bearing Reinforcement Earth Wall; and Current State of Knowledge on Thermal Consolidation using Prefabricated Vertical Drains.

Prof. Bergado (Dennes) was in the Geotechnical Engineering batch that graduated from AIT in 1976. At that time, Dr. Moh, Dr. Brand, Dr. Peter Brenner and Prof. Prinya Nutalaya and Prof. A. S. Balasubramaniam were the Geo-technical Faculty Members at AIT. After working for a while in Philippines, Prof. Bergado studied at Utah State University in USA on a Full Bright Scholarship and worked with Prof. Loren Anderson. Prof. Bergado joined AIT as an Assistant Professor in 1982; early colleagues of Prof. Bergado at AIT include Prof. Hideki Ohta, Prof. Towhata, Late Dr. Tomiolo, Dr. Friedrich Prinzl, Prof. Ikuo Towhata, Prof. Yuhdbir and Dr. Sarvesh Chandra. Later, Dr Robert Whitely, Dr. Noppadol Phienweij, Dr. Rantucci, Prof. Buddhima Indraratna, Dr. Kuwano, Dr. Sugimoto, Dr. Honjo, Prof. Ohtsu, Prof. Shibuya and Dr. Takemura; just to name a few. Prof. Onodera and Prof. Toshinobu Akagi left AIT a little before Prof. Bergado joined AIT.



At AIT in the early years Prof. Bergado was involved with many major Sponsored Research Projects including the USAID Funded Welded Wire Mechanical Stabilized Earth and Geosynthetics in Embankments on Soft Clays. Prof. Bergado was also deeply involved with the PVD Soft Ground Improvement Project at the Second Bangkok (Suvarnabhumi) Airport Site with the Airport Authority of Thailand. The Doctoral Students of Prof. Bergado were: Prof. Shivashankar, Prof. Chai, Dr. Long, Dr Panich, Dr Lorenzo, Dr

Sompote, Dr Lai, Dr Abuel-Naga, Dr Chairat, Dr. Pittaya, Dr Jaturonk, and Dr Tawatchai to name a few. He successfully supervised a total of 17 doctor and 160 master graduates. Prof. Bergado wrote 2 books in soil/ground improvement, edited 22 conference proceedings with more than 140 journal and 280 conference papers. Prof. Bergado also edited the Volume on Geotechnical Engineering in SE Asia for the Golden Jubilee Conference at San Francisco in 1985. Prof. Bergado was associated with the Southeast Asian Geotechnical Society from the time he joined AIT, earlier as Editor of the Journal (1996-2000) and later became the Secretary General of SEAGS (2001-2012). He also initiated the Asian Center for Soil Improvement and Geosynthetics (ACSIG) and founded the International Geosynthetics Society (IGS)-Thailand Chapter. Currently, he is serving his second term as elected member of the IGS International Council. Prof. Bergado spent his Sabbatical at Saga University. Emeritus Professor Norihiko Miura has also contributed an article here on Prof. Bergado's contributions and so were Prof. H G Poulos and Prof. Sag-Kyu Kim. These articles are included in the Preface as written by the Guest Editors.

It is a genuine pleasure to have this special issue to honour Prof. Dennes T. Bergado who has been an AIT Alumnus, a Colleague and friend of all of us over the last 35 years or so.

K. Y. Yong
N . Phienwej
T. A. Ooi

A. S. Balasubramaniam

E-Journal GUEST EDITORS

We acknowledge with thanks the following guest editors for the journal:

Prof. Jie Han (March 2011)

Prof. Tatsunori Matsumoto (June 2011)

Prof. Der Wen Chang

Prof. Chang Yu Ou (September 2011)

Dr. Dariusz Wanatowski (December 2011)

Prof. Charles W W Ng (March 2012)

Dr. Apiniti Jotisankasa

Prof. Ikuo Towhata (June 2012)

Prof. Der Wen Chang

Dr. Ivan Gratchev

Prof. Abdelmalek Bouazza (September 2012)

Tom Lunne (December 2012)

Prof. Don de Groot

Der-Wen Chang (March 2013)

Dariusz Wanatowski

Akira Murakami (June 2013)

Dariusz Wanatowski

Prof. Fusao Oka (September 2013)

Prof. Helmut F. Schweiger

Prof. Muhunthan Balasingham

Prof Jinchun Chai (December 2013)

Prof Shuiliong Shen

Kindly visit our website for further information: www.seags.ait.ac.th / <http://www.agsssea.org>

COUNTRY EVENTS

MALAYSIA

REPORT ON 18 ICSMGE - PARIS 2 - 6 SEPTEMBER 2013

by Ir. Dr. Ooi Teik Aun, President SEAGS

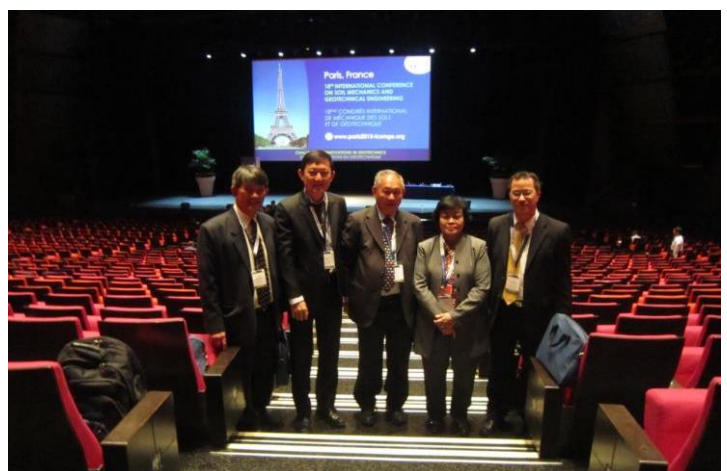
The 18ICSMGE was held successfully on 2-6 September 2013 in Paris. The conference attracted more than two thousand participants. Two days were devoted to theme lectures. The Terzaghi oration was delivered by S. Lacasse from Norway, Ishihara lecture by G. Gazetas from Greece, Menard lecture by J.L. Briaud from USA, Bishop lecture by R. Jardine from UK, Kerisel lecture by G. Calabresi from Italy, McClelland lecture by M. Randolph from Australia, Kerry Rowe

lecture by C. Shackelford of USA, and Schofield lecture by M. Bolton of UK. There was a report and presentations from the iYGEC and a forum on Research, Innovation and Practice. Ten papers were submitted by SEAGS and accepted by the conference organizing committee. There were good participation and representation from SEAGS and AGSSEA members. A Gala dinner was held on 4 September 2013.



18ICSMGE Opening Ceremony (picture from ISSMGE Report)

The ISSMGE held its Council meeting on 1 September 2013 and during that meeting the Malaysian Geotechnical Society (MGS) was accepted as a direct member of the ISSMGE. SEAGS has been well accepted as an incubator for the geotechnical societies in Southeast Asia to become direct member of ISSMGE. Credit goes to the Founding President Dr Za-Chieh Moh for his vision in the formation of SEAGS in 1967 and the subsequent formation of Association of Geotechnical Societies in Southeast Asia (AGSSEA) in 2007 for which he is the Hon. Founding Chairman. SEAGS is the driving force in the production of the SEAGS-AGSSEA Journal. Credit goes to the Editor-in-Chief Prof A S Balasubramaniam for his untiring effort in having in place papers for up to 2017.



18ICSMGE Conference Hall 2-6 September 2013, Paris



At ICSMGE Conference 2-6 Sept 2013



At the ISSMGE Council Meeting on 1 September 2013



ISSMGE Council Meeting in Progress



President Jean-Louis Briaud and Neil Taylor



Prof C F Leung and GeoSS President T S Chua



ISSMGE Council Meeting in Session



18ICSSMGE Gala Dinner on 4 September 2013 Paris
With Prof and Mrs S F Brown and Mr. C H Tee



18ICSSMGE Gala Dinner on 4 September 2013 Paris
President Jean-Louis Briaud mixing with guests

MALAYSIA GEOTECHNICAL SOCIETY (MGS)

The **Malaysian Geotechnical Society** was incorporated in March 2013 and held its Inaugural general meeting on 6 June 2013. The Founding Chairman is Dr Ting Wen Hui and Deputy is Dr Chan Sin Fatt. The Secretary General is Ir. Yee Yew Weng. ISSMGE Council meeting held in Paris on 1 September 2013 approved the application of MGS as direct member of ISSMGE. The Society was formally accepted to become a member of ISSMGE in October 2013. MGS is a member of AGSSEA. The society has currently 30 members representing Geotechnical Engineers of various streams and from different parts of the country. The society will work jointly to host local events with the Geotechnical Division of the Institution of Engineers, Malaysia; and participate in International Geotechnical events. The Secretary General attended the annual Geotechnical event organised by HATTI Indonesia in Jakarta in November 2013; and also, the GeoSS Conference and AGM in Singapore in December, 2013. Further information on the society and activities can be accessed via website <http://www.mygeosociety.org>.



Ir Dr Ting Wen Hui
and Ir Yee Yew
Weng at the
Inaugural General
Meeting on 6 June
2013

MGs Members at the Inaugural General Meeting on 6 June 2013



International Conference on Tunnelling and Underground Space in Kuala Lumpur 3-5 March 2015

Call for Papers

- Submission of Abstracts ▶ **31 January 2014**
- Acceptance of Abstracts ▶ **31 March 2014**
- Submission of Manuscript ▶ **30 June 2014**
- Acceptance of Manuscript ▶ **30 September 2014**
- Submission of Final Photo Ready Paper ▶ **31 October 2014**

A Special Session will be dedicated to the **Klang Valley Mass Rapid Transit (KVMRT) Project**.

The KVMRT project involves the construction of a rail-based public transport network which, together with the existing light rail transit (LRT), monorail, KTM Komuter, ERL and KLIA Transit systems forms the backbone of the Greater Kuala Lumpur/Klang Valley region. The project was approved by the Government in December 2010. The first KVMRT line to be implemented will be the 51km Sungai Buloh-Kajang line. Construction of the line was officially launched in July 2011 and expected to be operational by 2017.

The KVMRT project was initially proposed to the Government by a private-sector consortium in early 2010. The proposal was for the construction of three KVMRT lines. The Government conducted a study on the proposal and approved the implementation of the Sungai Buloh-Kajang line first. The Government decided to implement the other two lines after further studies are done on the proposed alignment in conjunction with the Greater Kuala Lumpur/Klang Valley Land Public Transport Masterplan.

The project consists of underground construction in the Kuala Lumpur City areas bounded by the North and South Portals and the elevated structures in the outskirts of Kuala Lumpur.

Please contact Conference Secretariat for more information:

Secretariat

International Conference on Tunnelling & Underground Space 2015 (ICTUS 2015)

c/o IEM Training Centre Sdn. Bhd.

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

46720 Petaling Jaya, Selangor Darul Ehsan, MALAYSIA

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

The 17th Annual Scientific Meeting of HATTI

The 17th Annual Scientific meeting of Hatti took place from 13-14 November 2013 in Jakarta under the title:

“Geotechnical Solution in Indonesia to Respond the Challenge of Urban, Industry, Infrastructure and Mining Development”

The details of the Organizing Committee and others are given below:

ORGANIZING COMMITTEE

Steering Committee ▶ Prof. Ir. Masyhur Irsyam, MSE, Ph.D

Ir. Pintor Tua Simatupang, MT. Dr-Eng

Ir. Idrus, MSc

Chairman ▶ Dr. Ir. Wiwik Rahayu

Secretaries ▶ Ir. Fauzie Buldan, Y
Ir. Andi K.S. Kartawiria, MT

Treasurer ▶ Ir. Budiantari HL. MSc

Editors ▶ Dr. Ir. Hasbullah Nawir, MT
Ir. Bigman M. Hutapea, MSc. Ph.D
Ir. YP. Chandra, M. Eng
Ir. Widjojo A. Prakoso, MSCE, Ph.D
Ir. Hendra Jitno, MASc. Ph.D
Agus Setyo Muntohar, Ph.D (Eng). PE

Section Events ▶ Ir. Wawan Kuswaya, MT

Aksan Kawanda, ST

Ali Iskandar, ST. MT.

Donny B. Tampubolon, ST

Secretariat : Josephine Aristiti Setyarini, ST. MT

Yunan Halim, ST. MT

Sugino

Geotechnical Ground Improvement:

Ground Improvement:

In-situ improvement of soft cohesive soils is one of the main challenges facing geotechnical engineers and contractors alike. In countries such as China, India, and other emerging countries in Asia where the population is large and infrastructure development is proceeding at a heightened pace, the need for a fast, economical in-situ improvement for soft cohesive soils in a large-scale is clearly evident. The traditional methods of soft cohesive soil treatment include the use of the following techniques: (a) prefabricated vertical drains (PVDs) and fill preloading, (b) vacuum consolidation together with PVDs, (c) stone columns, (d) thermal treatment, (e) chemical mixing, (f) electro-osmosis, and (f) deep dynamic compaction. Despite the availability of various methods of in-situ improvements listed above, the method of incorporating PVDs with fill preloading appears to be the most widely used technique throughout the world, even though the vacuum consolidation method has gained some interest recently. In large-scale applications — such as land reclamation using dredged materials, port facility construction, economic zone development along coastal areas, petrochemical plants near

shorelines, steel mills, power plants, airport runways, and highways — the areas to be treated could be excessively large and the availability of usable earth for fill preloading could be scarce. Therefore, there is a great interest in developing a more effective way of treating soft cohesive soils in a large area where preloading fill cannot be economically obtained.

The application of vacuum to facilitate consolidation in saturated fine-grained soils has been used either alone by means of PVDs or in combination with the static surcharge load using fill materials (Kjellman 1952 and Holtz 1975). The effectiveness of vacuum consolidation with or without surcharge loading is highly dependent upon soil permeability and the efficiency of the vacuum system. The desired degree of soil improvement and the allowable time duration for completion can also play an important role in determining if vacuum consolidation can be a viable soil improvement method for the project. The use of deep dynamic compaction technique in saturated fine-grained soils has not been widely accepted, even though

The salient features of the Meeting is briefly summarised below:

Keynote Lecture - 1 :

Innovative Soft Soil Improvement Method through Intelligent Use of Vacuum De-Watering and Dynamic Compaction Techniques

Prof. Robert Y. Liang, Prof. Tuncer B. Edil

ABSTRACT: Recently, an innovative soft soil improvement method was advanced in China by integrating and modifying vacuum consolidation and dynamic compaction ground improvement techniques in an intelligent and controlled manner. This innovative soft soil improvement method is referred to as “High Vacuum Densification Method (HVDM)” to reflect its combined use of vacuum de-watering and dynamic compaction techniques. Over the past ten years, this innovative soft soil improvement technique has been successfully used in China and Asia for numerous large-scale soft soil improvement projects, from which enormous time and cost savings have been

achieved. In this presentation, the working principles of the HVDM will be described, followed by a summary of two case studies. A discussion of the range of finegrained, cohesive soil properties that would make them ideal for applying HVDM as an efficient ground improvement method will be discussed. The economic benefits and environmental benefits of HVDM are elucidated. At the end of the paper, results of numerical simulation using FLAC3D computer program, in which dynamic compaction is modeled as a three-dimensional, coupled hydro-mechanical model, are presented to support the working mechanisms of HVDM.

Keynote Lecture - 2 :

Methods of Soft Ground Treatment and Rigid Bored Pile Foundation for Offshore Structure

Thomas Domanski , Regional Manager, BAUER Southeast Asia Pacific

ABSTRACT: Indonesia is on a solid path of economic growth and development. The development of the country is on the way in all areas whether infrastructure, urban, industry, tourism and resources. Massive construction projects are required to facilitate such development. Indonesia's construction industry is faced with very special challenges due to its geographic and geological character. In a country which has 13,677 islands and where 7.9 km² out of a total territorial area of 9.8 mio km² is covered by water the significance of offshore construction is evident. Making things not easier, Indonesia is a place, due to its location, where natural disasters,

especially earthquakes, are more common than in other countries. This requires the stabilization of soft ground to provide safety against liquefaction. Heavy structures need to be founded on solid foundation whether on- or offshore. The following presentation explains a technique of soft ground treatment and a technique for the construction of large diameter Bored Piles by referring to methods being used for 2 major projects which are part of the development of the Hong Kong Zhuhai Corridor. The projects need to be built both offshore in the open waters of the Pearl River Estuary between Hong Kong and Zhuhai (Mainland China).

Papers presented in the Technical Sessions are:

Session 1 ▶ Seven papers were presented

Session 2 ▶ Five papers were presented

Session 3 ▶ Five Papers are presented

Other Technical Sessions: Seventeen papers are presented

International Symposium on Advances in Foundation Engineering (ISAFE 2013) Singapore, 5-6 Dec 2013

6th GeoSS AGM (Sixth Annual General Meeting of the Geotechnical Society of Singapore) 5 Dec 2013

The **International Symposium on Advances in Foundation Engineering (ISAFE 2013)** was successfully held in conjunction with the **Sixth Annual General Meeting of the Geotechnical Society of Singapore (GeoSS)** in Singapore between 5 and 6 Dec 2013. ISAFE2013 was organised by the Geotechnical Society of Singapore, the National University of Singapore, and the Building and Construction Authority. The symposium was chaired by Professor Kok-Kwang Phoon (National University of Singapore) and Er. Tong Seng Chua (President, GeoSS).

GeoSS organises a thematic international conference every 2 years as a highlight event to advance knowledge in a topical issue in geotechnical engineering. The purpose of this international symposium is to gather designers, consultants, contractors, regulators, researchers and other stakeholders together in a single forum to address all aspects of foundation engineering, including present state of art/state of practice and challenging issues facing the profession. The basic goal is to share information on how to do the job most effectively with lowest risk and impact on the environment.



Welcome
Address by
Chua Tong
Seng,
President of
GeoSS

The proceedings contains 50 papers from 15 countries (Australia, Canada, China, Egypt, Germany, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, Singapore, Taiwan, Turkey, United States). Contributions in this proceedings covered topics such as modeling and analysis,

design, ground improvement, load test, and case studies. The symposium was opened by Er. Tong Seng Chua (President, GeoSS), Er. Keat Chuan Chew (Building and Construction Authority, Singapore), and Professor Ikuro Towhata (ISSMGE Vice President for Asia).



ISAFE2013
Delegates

Around 200 delegates participated in this symposium. Highlights of the symposium include a special session on “Singapore Piling Practice” organized by the GeoSS Piling Group, two special sessions organised by our young engineers from Student and Young Geotechnical Society of Singapore (SYGeoSS), TC212 (Deep Foundations) committee meeting (chaired by Professor Rolf Katzenbach), and the following keynote/special lectures:

Keynote Lectures

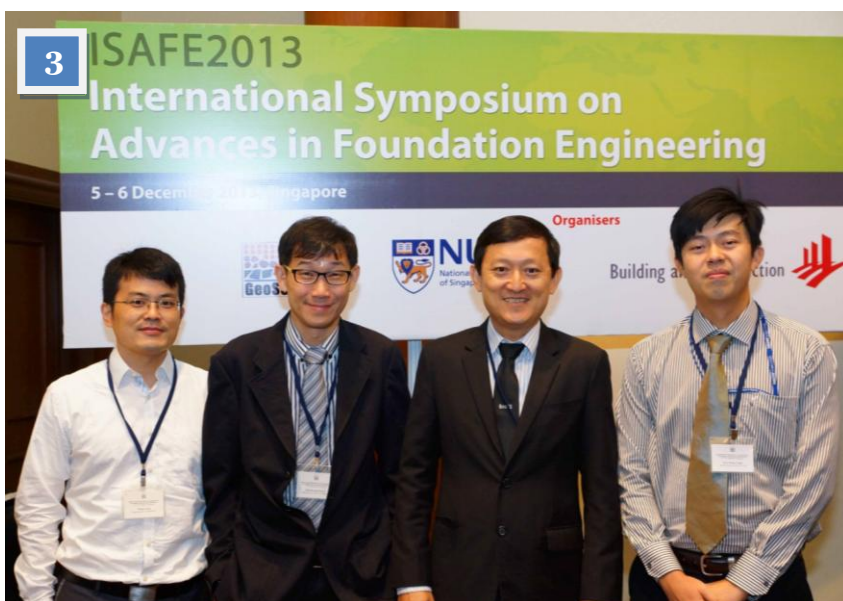
1. Independent Peer Review as a Guarantee for Safety, Serviceability and Optimisation of Deep Foundation Systems (Rolf Katzenbach and Steffen Leppla)
2. Some Observations on Resistance Factors and Foundation Capacity in Reliability-Based Design (Fred H. Kulhawy)
3. Effect of Installation of New Foundations on Adjacent Piles (Yean Khow Chow, Z. Chen, K. K. Tho and C. F. Leung)
4. Tall Tower Foundations – From Concept to Construction (Chris Haberfield)
5. Foundation Design and Construction in Limestone Formation: A Malaysian Consultant's Experience (Tan Yean-Chin and Chow Chee-Meng)

6. Settlement Estimation for Foundations of High-Rise Buildings in Singapore (Teoh Yaw Poh and Tiong Guan Ng)
7. Three-Dimensional Centrifuge and Numerical Investigation of the Performance of Piled Foundations Subjected to Deep Excavation (Charles W. W. Ng and S. Y. Peng)
8. Implications for Design of Piled Raft Foundations Subjected to Lateral Loading (Tatsunori Matsumoto)

Special Lectures

1. Experimental Validation of Relationship Between Particle Movement and Ageing Effect in Liquefaction Resistance of Sand (Yuki Shintaku and Ikuo Towhata)
2. Performance and Analysis of Non-Conventional Uplift Piles in Soft Ground (Maosong Huang, Jiangu Qian and Chenrong Zhang)

The Sixth GeoSS Annual General Meeting was held before the conference banquet on 5 Dec and Dr. Tiong Guan Ng (Golder Associates) was elected as the President for GeoSS (2014-2015). Professor Kok-Kwang Phoon delivered the closing address for ISAFE2013 on 6 Dec.



- [1] Keynote lecture by Prof Rolf Katzenbach
- [2] Special Lecture by Prof I. Towhata, ISSMGE Vice President for Asia
- [3] Editors of ISAFE2013, Yang Haibo, Phoon Kok-Kwang, Chua Tong Seng, Cham Wee Meng
- [4] Secretary of TC212 Deep Foundations, Prof Dr. Deepankar Choudhury
- [5] Keynote Lecture by Prof Charles W. W. Ng





[6] Special session on Singapore Piling Practice

[7] Closing Ceremony by Chair of ISAFE2013, Prof KK Phoon

Sixth Annual General Meeting of the Geotechnical Society of Singapore (GeoSS) - 5 Dec 2013



GeoSS Committee Members for 2014 - 2015 (L to R)

Eugene Khoo, Chian Siau Chen, Leong Kam Weng, Poh Teow Yaw, Ng Tiong Guan (President), Leung Chun Fai, Chua Tong Seng, Wen Dazhi, Chandrasegaran, Cham Wee Meng

CTGS GEOTECH2013 CONFERENCE

The 15th Conference on Current Researches in Geotechnical Engineering in Taiwan
September 11-13, 2013

Prof. Muhsiang Chang, NYUST/CTGS, Taiwan

CTGS Geotech-Conference (the conference on current researches in geotechnical engineering in Taiwan) is a biannual national event in the geotechnical society of Taiwan. Geotech2013 was the 15th conference of the series that was taken place at the Prince Hotel of Janfusun Amusement Park, Yunlin County, Taiwan, on September 11-13, 2013. This conference was organized by the Construction Engineering Department of National Yunlin University of Science & Technology (NYUST), under the auspices of Chinese Taipei Geotechnical Society (CTGS), National Science Council (NSC) of

Taiwan, and Chinese Institute of Civil and Hydraulic Engineering (CICHE) in Taiwan.

A total count of participants in this conference had reached around 400, a majority of which came from academia, governmental agencies, and private sectors in Taiwan, and some came from Japan, Hong Kong, America, and Australia. The conference received about 300 technical papers. After a prudent reviewing process, 220 papers were finally accepted for presentation and included in the conference proceedings.



[1] Greeting area (left to right: Dr. ZC Moh, Prof. JK Mitchell, & Prof. I Towhata)

[2] Opening ceremony chaired by Prof. YS Fang (President of CTGS)

[3] Prof. Chang-Hsein Juang delivered 2013 CTGS Geotechnical Lecture (lower left: CTGS President YS Fang presented 2013 CTGS Geotechnical Award to Prof. CH Juang).



The main theme of this conference was “**The Advances and Challenges in Geotechnical Engineering**,” which outlined the progress in the current stage of geotechnical studies, as well as difficulties and opportunities faced in the future. The conference was further divided into 12 sub-themes, including several aspects in the soil mechanics and geotechnical engineering. The opening ceremony was chaired by Prof. YS Fang / President of CTGS.

Photos 1 & 2 show some snapshots in the greeting area and the Opening ceremony. Several honorable guests were invited to give addresses, including: Prof. CK Hou (President of NYUST), Prof. Ikuo Towhata (ISSMGE VP for Asia), Dr. BH Lai (Vice Director of Water Resources Agency in Taiwan), Dr. CR Chiang (Director of Central Geology Survey in Taiwan), and Dr. DJ Tseng (Director General of Taiwan Area National Expressway Engineering Engineering Bureau), etc.

CTGS Geotech2013 Conference had invited several internationally renowned keynote speakers, including Prof. James K. Mitchell (Karl Terzaghi Lecturer of 1984, Rankine Lecturer of 1991, National Academy of Engineering of 1976, and National Academy of Sciences of 1998) and Prof. Fumio Tatsuoka (ISSMGE VP for Asia in 2001-2005, and IGS President in 2006-2010).

Prof. Charng-Hsein Juang, Glenn Professor of the Glenn Civil Engineering Department at Clemson University, South Carolina, USA, was the recipient of 2013 CTGS Geotechnical Award and delivered his Lecture entitled “**Robust Geotechnical Design – Methodology and Applications**,” a new design approach that explicitly considers design robustness against the variation of uncertainties in geotechnical parameters. Prof. Juang announced for the first time this work to the geotechnical society of the world in this conference (Photo 3).

Prof. James K. Mitchell delivered his keynote lecture in this conference with the title “**A Look at the Future of Geotechnical Engineering**,” providing a thorough review of past achievements and an enlightening vision on future developments in the geotechnical engineering. Prof. Mitchell’s speech had been influential to geotechnical researchers, students, and practitioners in Taiwan, and would believe to make an important step to direct the growth in geotechnical engineering in the future (Photo 4).



[4] Prof. James K. Mitchell delivered his Keynote Lecture in CTGS Geotech2013 Conference (lower left: Keynote Lecture Chair Dr. ZC Moh provided a Thank-You Gift to Prof. JK Mitchell)

[5] Prof. Fumio Tatsuoka delivered his Keynote Lecture in CTGS Geotech2013 Conference (lower left: Keynote Lecture Chair Prof. SS Lin provided a Thank-You Gift to Prof. F Tatsuoka)

Prof. Fumio Tatsuoka addressed “**Recent Geosynthetic-Reinforced Soil Structures for Railways in Japan**” in his keynote lecture, with emphasis on the application of geosynthetic-reinforced structures for the design for tsunami attacks due to earthquakes. His presentation consisted of an important summary on results of several recent studies after the devastating earthquake of Japan in March 2011 (Photo 5).



Prof. Ikuo Towhata promoted the 15ARC Event to attendees of the conference

The fourth keynote lecture was given by **Prof. Ching-Chuan Huang** of National Cheng Kung University of Taiwan with a subject on “**Formulation and Verifications of Force-Equilibrium-Based Finite Displacement Method (FFDM) for Slope Stability Analysis.**” The fifth keynote lecture was provided by **Dr. Hsii-Sheng Hsieh**, President of Trinity Foundation Engineering Consultants Inc. in Taiwan on the topic of the “**System Stiffness for Deep Excavations in Soft Clays.**” The sixth keynote lecture was delivered by **Dr. Barry S. Chen**, a Senior Principal of Hart Crowser Inc. in Seattle, USA, addressing “**Geotechnical Analysis for Static Liner Design of the World’s Largest Diameter Soft Ground Bored Tunnel in Downtown Seattle.**”

Prof. Ikuo Towhata, ISSMGE VP for Asia, announced in this meeting the 15th Asia Regional Conference on Soil Mechanics and Geotechnical Engineering (15ARC), that will be held by Japanese Geotechnical Society (JGS) in Fukuoka, Kyushu, on November 9~13 of 2015 (Photo 6). Details of the conference are referred to their website: <http://www.jgskyushu.net/uploads/15ARC/>.

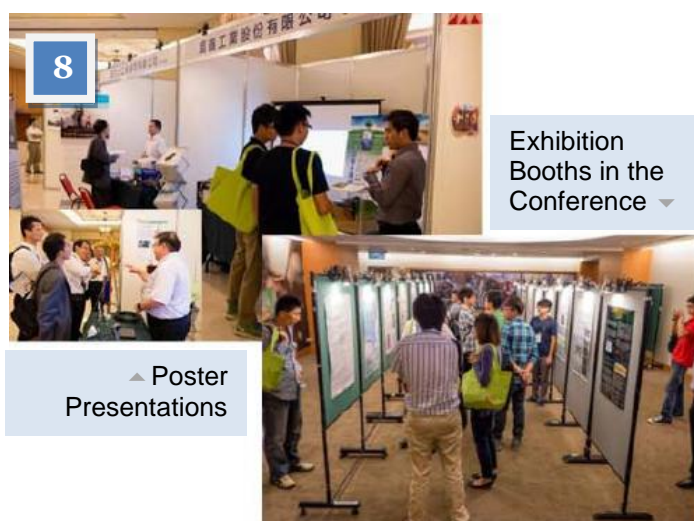
In CTGS Geotech2013 Conference, we also arranged two special sessions discussing important geotechnical issues in the mid-west region of Taiwan where the conference was situated. The issues were: (1) ground subsidence and soil liquefaction problems in Chuoswei River Alluvial Plain, and (2) landslide and debris flow problems in Tsaolin and Huashan areas in the western hillside of Central Mountain Range of Taiwan. Each session had involved five invited specialists in the fields of interest.

A total of 20 **oral sessions**, including 120 accepted papers, was arranged in the meeting rooms of the venue. Four parallel sessions were scheduled simultaneously and started from the noontime of Day 2 (Photo 7).

Four **poster sessions**, including 100 accepted papers, were designated in an area along the hallway of the four meeting rooms (Photo 8). Ten **exhibition booths** were joined by companies of geo-material suppliers, engineering software, and testing equipment, etc., from domestic and overseas (Photo 8).



Oral presentations in one of the meeting rooms in the CTGS Geotech2013 Conference



Exhibition Booths in the Conference ▼

▲ Poster Presentations



Day-2 Dinner Banquet (Geotech Night) in CTGS Geotech2013 Conference

Dinner Banquet (Geotech Night) of Geotech2013 Conference was scheduled in the evening of Day 2. The dinner was traditionally the most important “activity” in a 3-day conference, including Chinese-style round table foods and wines (Photo 9), as well as on-stage shows. To host this conference, students of NYUST had prepared a variety of performances to entertain the participants of conference. The shows had included light band, Chinese strings, tangos, choir, and hot dance, etc.

In CTGS Geotech2013 Conference, we had arranged two **site visits** to areas within a short distance to the venue to provide participants an opportunity to explore local culture activities and engineering problems in this area. The first tour was to visit a Chinese Puppet Museum and its surroundings in Huwei Township, and to visit a **ground subsidence site in the nearby of Huwei** that is currently the most serious settlement spot along the entire length of Taiwan High Speed Rail. The second tour was to visit a landslide site in Tsaolin and a debris flow area in Huashan. The hill slope of Tsaolin had been slid several times in the history, in which the most serious one was occurred during the attack of Chi-Chi (921) Earthquake of 1999. The sliding mass was estimated approximately $120 \times 106 \text{ m}^3$, the largest one that has been documented in Taiwan (Photo 10).



Site Visit 2 - Tsaolin & Huashan Field Trip (Tsaolin 921EQ Landslide Area)

The **CTGS Geotech2013** Conference had finally come to an end on September 13. It has been a successful and fruitful meeting in the history of CTGS Geotech-series in Taiwan, in terms of number of participants, number of papers accepted, renowned keynote speakers invited, and various programs arranged, etc. CTGS Geotech2013 Conference has tried one-step further to make the Geotech-series more international-wise by promoting exchanges in the engineering experience and research results among Taiwan and other countries in the world.

More information on the Geotech2013 can be found in the following websites:

- ▶ <http://www.geotech2013.yuntech.edu.tw>
- ▶ <http://www.flickr.com/photos/101221116@N02/sets/>

GEOTEC HANOI 2013 (28-29 NOVEMBER 2013 HANOI, VIETNAM)

Second International Geotechnics for Sustainable Development at the Melia Hotel, Hanoi



GEOTEC HANOI is organized every two years from 2011 and is considered as pioneering international conference on Geotechnics in Vietnam.

◀ Photo shows part of the audience at the GEOTEC HANOI 2013

GEOTEC HANOI 2013 was successfully organized on 28-29 November 2013 in Hanoi, with more than 500 attendees from 28 countries. The conference proceeding consists of 112 papers, of which 84 were presented.

Two years ago, the first international conference **GEOTEC HANOI 2011** had the theme “Geotechnics for Sustainable Development”. The conference’s main purpose was to provide a forum to interchange ideas, experience, and knowledge in the interest areas. Continuing from the success of the first event, the conference was decided to be held every second year in Hanoi.

Hosting the conference are **FECON Foundation Engineering & Underground Construction JSC**, a leading geotechnical contractor in Vietnam, and **Vietnamese Society for Soil Mechanics and Geotechnical Engineering (VSSMGE)**, with an invited international co-organizer, **Asian Institute of Technology (AIT)** from Thailand. The ambition of the organizers is to establish an international conference every second year in Vietnam, which can attract the leading experts both from Vietnam and around the world in the geotechnical areas that have been or will be developed in Vietnam.

The event is also aimed to help Vietnamese experts, engineers and contractors actively taking part in the sustainable development of the infrastructure in particular, and of the economy in general in Vietnam.

Five technical sessions:

- 1) Foundations for high-rise buildings,
- 2) Underground projects in soft soil,
- 3) Soil improvement and reinforcement for infrastructure projects,
- 4) Monitoring and instrumentation for tunnels and excavations, and
- 5) Geotechnical modeling and numerical analysis.

The conference honored a giant figure in the geotechnical world, **Prof. Sven Hansbo** from Sweden, with his Honorable lecture “Deep compaction by heavy tamping, deep vibration and blasting”. Since 1979, Professor Hansbo has enormously devoted to the development of geotechnics in Vietnam. His name is also attached to the success of the cooperation between Vietnam and Sweden in the geotechnical field.

Five keynote lectures at five technical sessions:

- 1) **“Geotechnical challenges at super high-rise buildings”**, Prof. Rolf Katzenbach (Germany);
- 2) **“Management of settlements for an urban tunnel (Toulon, France)”**, Prof. Alain Guilloux (France);
- 3) **“Recent geosynthetic-reinforced soil structures for railways in Japan”**, Prof. Fumio Tatsuoka (Japan);
- 4) **“Smart Geo-Infrastructure - Opportunities for new sensor monitoring systems”**, Prof. Kenichi Soga (UK);
- 5) **“Examples for successful 3D finite element analysis in geotechnical engineering”**, Prof. Helmut Schweiger (Austria).

The Proceeding

The proceeding, with international registration number **ISBN 978 604 82 0013 8**, is very well-edited with international high-quality printing and hard cover. The proceeding consists of approximately 950 pages and includes 112 papers in English.



A CD Rom is also provided with all the papers in pdf files.



Dr. Phung Duc Long, VSSMGE vice-president and chairman of conference scientific committee, opened the conference.



Mr. Pham Viet Khoa, FECON President and chairman of the conference, made the welcome speech



Honorable Lecture, Professor Sven Hansbo (Sweden)



Keynote Lecture 1, Professor Rolf Katzenbach (Germany)



Keynote Lecture 2, Professor Alain Guilloux (France)



Keynote Lecture 3, Professor Fumio Tatsuoka (Japan)



Keynote Lecture 4, Professor Kenichi Soga (UK)



Keynote Lecture 5, Professor Helmut Schweiger (Austria)



Conference's Key Persons



Conference
Banquet
“Gala
Dinner”



Post Conference Tour

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

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

REPORT ON ACTIVITIES FROM AUGUST 2013 TO FEBRUARY 2014

1. Conferences and Seminars

- 1.1 The seminar on **“Enhanced Approach for dealing with Natural Terrain Hazards”** was held on 16 September 2013 at the Hong Kong Institution of Engineers (HKIE) Seminar Room. The seminar was delivered by Dr Samuel Ng, Dr Julian Kwan and Dr Raymond Cheung.
- 1.2 The seminar on **“Construction of new type of retaining wall with stabilizing base using precast panels at Tolo Highway widening”** was held on 10 October 2013 at the Hong Kong Institution of Engineers (HKIE) Seminar Room. The seminar was delivered by Mr Benson Lam and Mr John Chan.
- 1.3 The seminar (jointly organized with Association of Geotechnical and Geoenvironmental Specialists (Hong Kong)) on **“Artificial ground freezing”** was held on 28 October 2013 at Hong Kong Polytechnic University. The seminar was delivered by Mr Xiangdong Hu.
- 1.4 The **4th International Symposium on Geotechnical Safety and Risk (ISGSR2013)** was held on 4-6 December 2013 at the Hong Kong University of Science and Technology.
- 1.5 The seminar on **“Review of recent building and civil works that involved large-scale cuttings”** was held on 9 December 2013 at the Hong Kong Institution of Engineers (HKIE) Seminar Room. The seminar was delivered by Dr Raymond Wong.
- 1.6 The seminar (jointly organised with HKU) on **“Energy piles and beyond”** was held on 8 January 2014 at the University of Hong Kong. The seminar was delivered by Professor Kenichi Soga.

2. Technical Site Visits

- 2.1 A technical site visit to **“Hong Kong Boundary Crossing Facilities”** was held on 3 August 2013.
- 2.2 A technical site visit to **“MTR Express Rail Link (XRL) Contract 811B”** was held on 28 September 2013.
- 2.3 A technical site visit to **“MTR Shatin-Central Link (SCL) Contract 1109”** was held on 2 November 2013.
- 2.4 A technical site visit to **“Sunway Spun Pile Factory in Zhuhai, China”** was held on 7 December 2013.
- 2.5 A technical site visit to **“China Light and Power - Back Slope at Castle Peak Power Station (CPPS)”** was held on 4 January 2014.



Technical site visit to the working site of the MTR Shatin-Central Link (SCL) Contract 1109.



Technical site visit to the Sunway Spun Pile Factory in Zhuhai, China.

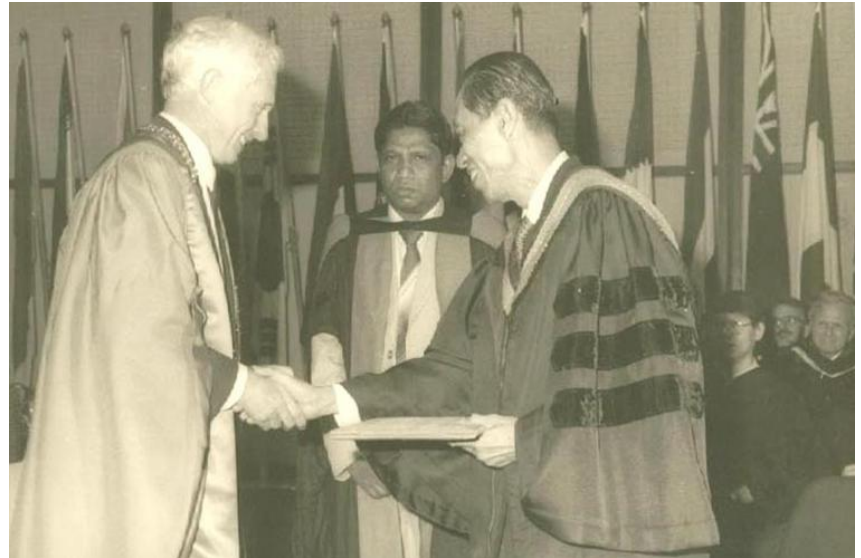
THAI GEOTECHNICAL SOCIETY

A recent update on its activities

Since its establishment in 1993, the technical committee on geotechnical engineering of the Engineering Institute of Thailand, also known as the Thai Geotechnical Society, has continued to play an active role in promoting technical advances and research activities in the field of geotechnical engineering in Thailand. The following are some of its recent activities and highlights on important projects related to geotechnical engineering in Thailand.

Education and awards

Since geotechnical engineering has first been recognized as an important field in its own right in Thailand in 1960's following the guidance of **Prof. Chai Mukthabhan** of Chulalongkorn University, the first annual lecture event called "The Chai-Muktabhan lecture" was organized in 2007 and to be delivered by a distinguished geotechnical engineer of Thailand annually. **Dr. Warakorn** was the first Chai-Muktabhan lecturer.



Honorary Doctorate at AIT: Chai-Muktabhan (Photo Courtesy of Prof Balasubramaniam)

In 2012 **Mr Titi Paveenchann** was selected to be the Chai-Muktabhan lecturer in honour of his contribution to the geotechnical community in Thailand. His lecture was on the Subsidence problems of the Chaophaya flood plain related to groundwater table drawdown and its implication on foundation behaviours.

In 2013, **Dr. Watchasin Gasaluck** of Khonkaen University, delivered his Chai-Muktabhan lecture which was on "The wide spectrum of standards in geotechnical engineering in Thailand". His life-long experience on various aspects of geotechnical engineering, close involvement with many practical projects, and dedicated contribution to the profession was lively reflected in the lecture. In particular, the difference in standardization of soil exploration, design methods, etc, in projects in cities and rural areas of Thailand were critically highlighted.



Dr. Watchasin Gasaluck (right) received the Chai-Muktabhan award from the Privy Counsellor Kamton Sintawanon

Conferences and international events

Special seminar by engineering geology and tunneling world experts

A special seminar on the topics of “Experiences in Engineering Geology on infrastructure development in rocks” was organized on 24 July, 2013, at SC park hotel in Bangkok, by the Engineering Institute of Thailand, Thai Geotechnical Society, and Geotechnical Engineering Research and Development Center (GERD) of Kasetsart University. Prof. Paul Marinos gave 2-part lecture on “Case studies in tunneling under difficult geological conditions” and on “Case studies for dams under difficult geological conditions”. Dr. Harald Wagner also shared his visions on tunneling in Thailand in his lecture on “Choice of tunneling methods for Thailand future infrastructures”. Dr. Suttisak Soralump, the president of Thai Geotechnical Society, also lectured on “Foundation engineering in difficult hillside geology for Wat Sukim Pagoda construction”. Nearly 200 participants joined the event.

Participation in major international events

TGS members have joined the ISSMGE conference in Paris and participated in voting for the new president of ISSMGE and other related positions.



TGS group and fellow AGSSEA members at the Paris ISSMGE conference



TGS group at the ISSMGE conference in Paris

Some selected projects

Soft Bangkok Clay and underground structures

Due to the high demand in underground space utilization in Bangkok, there have been a relatively larger number of deep excavation projects, in the recent decades. Diaphragm walls are being used even more and more as a permanent structure for deep excavation. Barrette piles were cooperated in the diaphragm wall to increase the stability of the system and proved to be successful.



Numerous underground projects in Bangkok

Soft ground improvement by vacuum consolidation with air-water separation system

The vacuum consolidation with air-water separation system was first utilized in Thailand for apron and taxiway construction at Nakhon Si Thammarat Province, Southern of Thailand in 2009. Total improvement area was about 30,000 Sq.m. with about 7 m thickness of soft clay with the initial natural water content of about 85-95%. The average vacuum pressure measured under airtight sheet during vacuum application was achieved over 80 kPa during the consolidation settlement under the embankment construction height of about 3 m. The water content after improvement became about 65%.

Dr. Nipon Teerachaikulpanich, the project manager, said to our reporter that “We are very satisfied with this project. It was very successful and there was no report of damage due to the post construction settlement”.



Vacuum consolidation with air-water separation system in Nakhon Si Thammarat Province



Location of Nakhon Si Thammarat Province

The Board will hold its first in-person meeting in London on 18-19 March 2014, at the invitation of Geotechnical Consulting Group and the British Geotechnical Association. This will allow us to participate in the Rankine Lecture at Imperial College, to be delivered by Professor Guy Houlsby from Oxford University. We are also invited to the Pre-Rankine Seminar held at Imperial College, dedicated this year to Professor Nicholas Ambraseys, who passed away in December 2012. It is intended that the main discussion topics and decisions taken by the Board will be posted on the ISSMGE website by our Secretary General.

The Board has maintained most of the working structure of ISSMGE established by Jean-Louis Briaud. Six of the previous Board Level Committees (BLCs) have been retained and the Chairs have already been nominated by the Board (see: <http://www.issmge.org/en/the-society/working-structure-issmge>):

- ▶ Awards Committee (AWAC), Chair: Charles Ng (Hong Kong)
- ▶ Corporate Associates Presidential Group (CAPG), Chair: Sukumar Pathmanandavel (Australia)
- ▶ Innovation and Development Committee (IDC), Chair: Dimitrios Zekkos (USA)
- ▶ Public Relations Committee (PRC), Chair: Sherif Wissa (Egypt)
- ▶ Students and Young Members Presidential Group (SYMPG), Chair: Jennifer Nicks (USA)
- ▶ Technical Oversight Committee (TOC), Chair: Pierre Delage (France).

The BLCs have resumed their work and are, presently, in the process of updating their membership and reviewing their terms of reference.

It has been agreed that all the six ISSMGE Vice-Presidents will sit on the TOC, in order to facilitate, in particular, the communication and coordination with the TCs (current and planned) hosted by the Member Societies in their respective Region. The VPs have each nominated a colleague from their Region to assist them on the Committee.

VISIT TO THE VICTOR DE MELLO LIBRARY SPACE

Very recently, I had the chance to visit the space of the library of the Polytechnic School of the University of São Paulo (Brazil) devoted to Victor de Mello, President of ISSMGE 1981-1985 (see: <http://www.issmge.org/en/announcements-en/314-past-president-victor-de-mello-passes-away>). This space gathers all the books, documents and journals belonging to Victor de Mello. According to our colleague, Waldemar Hachich, Vice-President for South America 2005-2009, the Victor de Mello includes: about 1500 titles of books and conference proceedings (over 2000 volumes); about 200 collections of journals and magazines, the most important of them complete from the fifties till 2003 (the Polytechnic School has ensured the continuity of most of the collections to the present day); hundreds of files of projects on which Victor worked for about five decades.



2 October 2013.
Waldemar Hachich, Roger Frank and Werner Bilfinger (from left to right) visiting the Victor de Mello library space in the Polytechnic School of the University of São Paulo

My visit to the Victor de Mello space with our colleagues from São Paulo, Waldemar Hachich and Werner Bilfinger (see photo), gave me a feeling of deep recognition of Victor. While I was going through some of his hand-written pencil notes (Victor would annotate most of his books and journals!), it came back to my mind the wonderful moments one would spend in his company. His extremely wide culture, his deep expertise on nearly all topics of geotechnical engineering, his kindness, modesty, permanent concerns about the younger ones and his friendship impressed me each time I had the chance to meet him or visit him.

Bye bye for now! I will soon be back in contact with you in these columns. In the meantime, do not hesitate to write to any one of us, the Board members or the BLCs' Chairs, if you wish to clarify something or if you wish to raise a question about ISSMGE and its governance!

Roger Frank
Paris, 20 November 2013

EVENT DIARY

ISSMGE EVENTS

Please refer to the specific conference website for full details and latest information.

2013

Fifth International Young Geotechnical Engineers' Conference (5iYGEC'13)

Date: Saturday 31 August 2013 - Sunday 01 September 2013

Location: École des Ponts Paris Tech, Paris. France

Language: English/French

Contact person: **Prof. Yu-Jun Cui**

Address: Paris, France

E-mail: yujun.cui@enpc.fr

Website:

<http://www.lepublicsystemepco.com/EN/events.php?IDManif=696&IDModule=21&PPAGE=&PAGE=&TEMPATE=&CSS=&IDRub=>

18th International Conference on Soil Mechanics and Geotechnical Engineering, Paris

Date: Monday 02 September 2013 - Friday 06 September 2013

Location: Palais des congrès de Paris, Porte Maillot, Paris, France

Language: English, French

Organizer: Le Public Système, 38, rue Anatole France-Levallois-Perret Cedex, 92594 France

Contact person: **Violaine Gauthier, Clémentine Nicollet**

Address: 38 rue Anatole France, 92594 Levallois-Perret Cedex, France

Phone: +33 1 70 94 65 04

Fax: +33 1 70 94 65 01

E-mail: vgauthier@le-public-systeme.fr, vmetral@le-public-systeme.fr

Website: <http://www.issmge2013.org/EN/events.php?IDManif=561&IDModule=71&IDRub=79>

More info: Organizer Phone: 33 1 70 94 65 04

Contact persons: Violaine Gauthier: vgauthier@le-publicsysteme.fr

Clémentine Nicollet: cnicollet@le-public-systeme.fr

Geotechnical Seminar: 14th Šuklje's Day Unsaturated Soil Mechanics: Theoretical Background and Case Histories

Date: Friday 11 October 2013 - Friday 11 October 2013

Location: Plaza Hotel Ljubljana, Bratislavska cesta 8, BTC, 1000 Ljubljana, Ljubljana, Slovenia

Language: English / Slovenian

Organizer: Slovenian Geotechnical Society - SLOGeD

Contact person: **Mojca Ravnika Turk**

Address: SLOGED Jamova 2, 1000, Ljubljana, Slovenia

Phone: +386 41 770 542

Fax: +386 1 2804 264

E-mail: mojca.turk@zag.si ■ Website: <http://www.sloged.si>

GeoShanghai 2014

Date: Monday 26 May 2014 - Wednesday 28 May 2014

Location: Shanghai, China

Language: English

Organizer: Tongji University

Contact person: **Xiong Zhang**

Address: Department of Civil & Environmental Engineering, University of Alaska Fairbanks, 99775, Fairbanks, AK, United States

Phone: +1(907)474-6172 ■ Fax: +1(907)474-6030

E-mail: xzhang11@alaska.edu ■ Website: www.geoshanghai2014.org

Geohubei International Conference 2014

Date: Sunday 20 July 2014 - Tuesday 22 July 2014

Location: Three Gorges Dam, Hubei, China

Language: English

Organizer: Geohubei International Conference 2014

Contact person: **Dr. Guodong Zhang**

Address: Three Gorges University

E-mail: geohubei.adm@gmail.com ■ Website: <http://geohubei2014.geoconf.org>

2nd International Conference on Information Technology in Geo-Engineering

Date: Monday 21 July 2014 - Tuesday 22 July 2014

Location: Durham University, Durham, United Kingdom

Language: English

Organizer: Professor David Toll

Contact person: **Dr Ashraf Osman**

Address: School of Engineering and Computing Sciences, Durham University, DH1 3LE, Durham, United Kingdom

Phone: +44 191 334 2425 ■ Fax: +44 191 334 2408

E-mail: icitg@duram.ac.uk ■ Website: www.icitg.dur.ac.uk

TC204 ISSMGE International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground" - IS-Seoul 2014

Date: Monday 25 August 2014 - Wednesday 27 August 2014

Location: Sheraton Grande Walkerhill, Seoul, Korea

Language: English

Organizer: TC204 of ISSMGE and Korean Geotechnical Society

Contact person: **Prof. Chungsik Yoo**

Address: 300 Chun-Chun Dong, Jang-An Gu, 440-746, Suwon, Kyong-Gi Do, Korea

Phone: +82-32-290-7518

7th International Congress on Environmental Geotechnics

Date: Monday 10 November 2014 - Friday 14 November 2014

Location: Melbourne Convention and Exhibition Centre, Melbourne, Victoria, Australia

Language: English

Organizer: Engineers Australia

Contact person: **Hayley Le Gros**

Address: WSM, 119 Buckhurst Street, Vic 3205, Melbourne, Victoria, Australia

Phone: 61 3 9645 6322 ■ E-mail: 7iceg2014@wsm.com.au ■ Website: www.7iceg2014.com

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: mehrez.khemakhem@gmail.com ■ Website: www.16cramsg.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

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: www.associazionegeotecnica.it

15th Pan-American Conference on Soil Mechanics and Geotechnical Engineering

Date: Sunday 4 October 2015 - Thursday 8 October 2015

Location: Buenos Aires, Argentina

Email: panamericano2015@saig.org.ar

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/>

2 0 1 6

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>

NON-ISSMGE SPONSORED EVENTS

2 0 1 3

International Symposium on Advances in Foundation Engineering

Date: Thursday 05 December 2013 - Friday 06 December 2013

Location: Furama Riverfront Hotel, Singapore

Language: English

Organizer: Geotechnical Society of Singapore

Contact person: **Phoon Kok Kwang** (Chair)

Address: Block E1A, #07-03, 1 Engineering Drive 2, Singapore 117576, Singapore

Phone: 65-65166783

Fax: 65-67791635

E-mail: kkphoon@nus.edu.sg

Website: <http://rpsonline.com.sg/isafe2013/>

2 0 1 4

DFI-EFFC International Conference on Piling and Deep Foundations

Date: Wednesday 21 May 2014 - Friday 23 May 2014

Location: Stockholmsmässan, Stockholm, Sweden

Language: English

Organizer: DFI & EFFC

Contact person: **Deep Foundations Institute**

Address: 326 Lafayette Ave, 07506, Hawthorne, New Jersey, United States

Phone: 9734234030

Fax: 9734234031

E-mail: staff@dfi.org

Website: <http://www.regonline.com/builder/site/Default.aspx?EventID=1221506>

8th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE14)

Date: Tuesday 17 June 2014 - Friday 20 June 2014

Location: Delft University of Technology, Delft, The Netherlands

Language: English

Organizer: Prof. Michael Hicks

Contact person: **Mrs. Hannie Zwiers**

Address: Delft University of Technology, Faculty of Civil Engineering & Geosciences. Stevinweg 1, 2628, CN Delft, The Netherlands

Phone: +31 15 2788100

E-mail: info@numge2014.org

Website: <http://www.numge2014.org>

FOR FURTHER DETAILS, PLEASE REFER TO THE WEBSITE OF THE SPECIFIC CONFERENCE

Vice President for Asia**Professor Ikuo Towhata**

Department of Civil Engineering

University of Tokyo

7-3-1, Hongo Bunkyo-Ku

Tokyo 113-8656, Japan

Tel: +81-3-5841-6121

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

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
South East 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

Why join SEAGS, AGSSEA & ISSMGE?

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

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



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

CONFERENCES in ASIA

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

November 2015, Kyushu, Japan

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

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

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



As many of you know, ISSMGE members are from both academia and those working in the field, and thus the fusion of those two members 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.

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

The following themes of the conference are:

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

For further information, please contact:

15ARC

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

ZIP code: 860-8555

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

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

Website: www.jgskyushu.net/uploads/15ARC

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

Venue: Hanoi, Vietnam

Proposed Date: 17 – 19 June 2016

Conference Theme: Geotechnical Engineering for Green Vision Development

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

Topics for the conference include:

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

Key Dates:

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

Language: English

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

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

Organizing Committee: To be confirmed

Conference Advisory Committee: To be confirmed

CONFERENCES outside ASIA

10th INTERNATIONAL CONFERENCE on GEOSYNTHETICS

Berlin, Germany

IGS Young Members "Call for Papers" 15 February 2014

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

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

Conference Themes

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



For further information, please contact:

Dr. Nathalie Touze-Foltz:

E-mail: nathalie.touze@irstea.fr,

g.braeu@bv.tum.de,

igssec@geosyntheticssociety.org

Website: www.10ICG-Berlin.com

JOURNAL ISSUES 2014

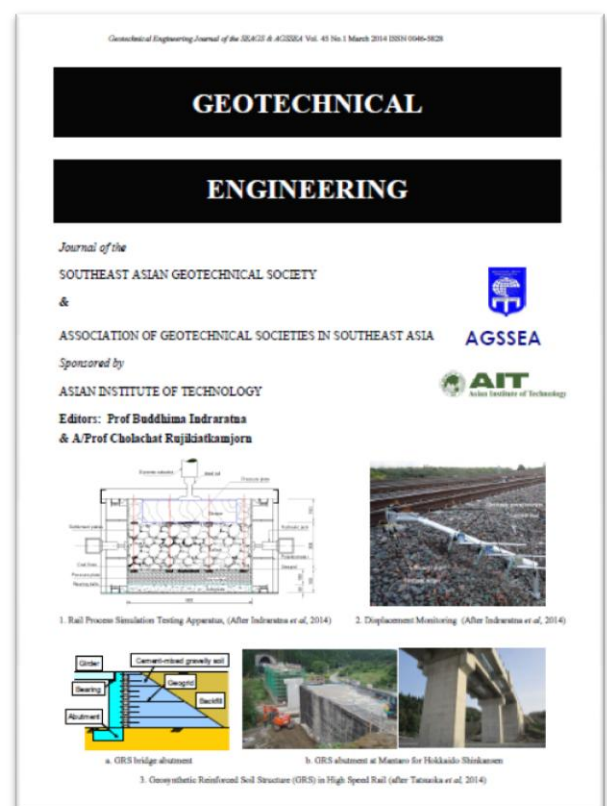
The Geotechnical Engineering Journal with ISSN 0046-5828 is now published by the Southeast Asian Geotechnical Society since 1970 and distributed to members, subscribers and others on a worldwide basis since 1970. Currently the Journal is published four times a year in March, June, September and December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

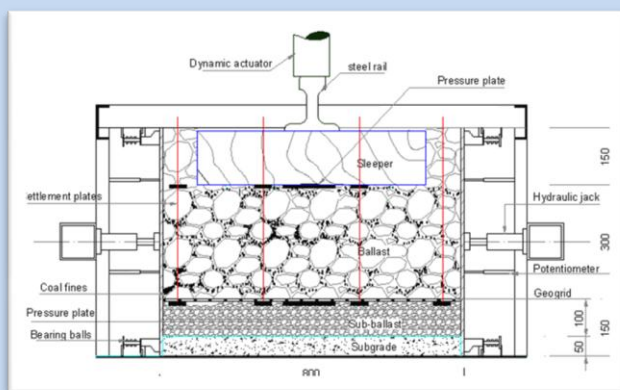
March 2014 Issue

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

Details of the Table of Contents are:

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





1. High Speed Rail Process Simulation Apparatus



2. Track displacement Monitoring

Figs 1 & 2 from Indraratna et al, 2014

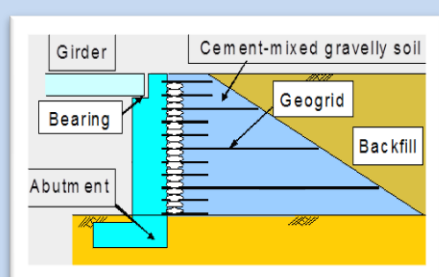


Fig.3: Geosynthetic Reinforced Soil Structure (GRS) in High Speed Rail
After Tatsuoka et al, 2014

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

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

THEME ISSUES from 2011-2013

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

Year 2011

March ▶ Ground Improvement: Prof. Jie Han

June ▶ Piled & Piled Raft Foundations: Prof. Tatsunori Matsumoto & Prof. Der Wen Chang

September ▶ Deep Excavations & Tunnels: Prof. Chang Yu Ou

December ▶ Soil Behaviour: Dr. Dariusz Wanatowski

Year 2012

March ▶ Unsaturated Soil Behaviour: Prof. Charles W W Ng & Dr. Apinit Jotisankasa

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

September ▶ Environmental Geotechnics and Sanitary Landfills: Prof. Malek Bouazza

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

Year 2013

June ▶ Modelling Soil Behaviour: Prof. Akira Murakami

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

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

SPECIAL ISSUES for 2015

June 2015

Design of Pile Foundations

Prof. San-Shyan Lin

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

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

Submission Guidelines

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

Important Dates

Abstract deadline: 30 October, 2013
Notification of acceptance of abstracts: 30 December, 2013
Submission of full paper: 30 May, 2014
First decision notification: 30 August, 2014
Revised version submission: 30 November, 2014
Estimated publication date: June 2015

Guest editors of the special issue:

San-Shyan Lin, Prof., Dept. of Harbor and River Eng., Taiwan Ocean University, Taiwan
Robert Liang, Prof., Dept. of Civil Engineering, Akron University, USA
C. H. Juang, Glenn Professor, Dept. of Civil Engineering, Clemson University, USA

September 2015

Time Effects on the Behavior of Soils September 2015

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

Dear Colleagues,

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

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

Submission Guidelines

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

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

Important Dates

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

Sincerely Yours,

Jian-Hua Yin, PhD, Professor

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

Email: cejhyin@polyu.edu.hk

Zhen-Yu Yin, PhD, Professor

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

Email: zhenyu.yin@gmail.com

December 2015

Contaminated Soils

Dr. Albert Yeung

SPECIAL COUNTRY ISSUES

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

2015 ▶ THAI Issue

Special Issue on 2015: THAILAND – Dr. Surachat Sambhadharaksa Memorial Issue

Theme: Advances in Geotechnical Engineering for Infrastructure Developments in Thailand

Guest Editors:

Dr. Suched Likitlersuang, Chulalongkorn University (Editor in Chief)

Dr. Suttisak Soralump, Kasetsart University

Dr. Tirawat Boonyatee, Chulalongkorn University

Dr. Siam Yimsiri, Burapha University

Dr. Thanakorn Chompoorat, Phayao University (Secretary)

Advisors:

Prof. Arumugam S. Balasubramaniam, Griffith University, Australia

Prof. Suchatvee Suwansawat, the King Mongkut's Institute of Technology Ladkrabang

Dr. Seah Tian Ho, AIT

Dr. Wanchai Teparaksa, Chulalongkorn University

Dr. Supot Teachavorasinskun, Chulalongkorn University

Dr. Boonchai Ukritchon, Chulalongkorn University

Dr. Warakorn Mairiang, Kasetsart University

Dr. Watcharin Kasalak, Khon Kaen University

Prof. Dennes T. Bergado, AIT

Dr. Noppadol Phienwej, AIT

IMPORTANT DATES ▶ Please kindly note the following should you like to contribute an article to this issue:

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

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

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

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

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

With Kind Regards,

Dr. Suched Likitlersuang
(Editor in Chief)

2016 ▶ MALAYSIAN Issue

Special Issue on March 2016: MALAYSIA

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

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

1. Recent Research Developments in Theoretical Geotechnics
2. Laboratory and Insitu Tests
3. Deep Foundations

4. Ground Stabilisation and Earthworks Engineering;
5. Slope Engineering
6. Tunneling Engineering
7. Soft Ground Engineering
8. Deep Excavations and Ground Retention Systems
9. Subjects of relevance to building and infrastructural developments in Malaysia.

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

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

Ir. Yee Thien Seng, at alainyee@streamyx.com

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

Editors:

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

Ir. Kenny Yee - Menard Asia

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

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

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

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

Advisors:

Ir. Dr Ooi Teik Aun - TAO Consult, Malaysia

Ir. Dr Ting Wen Hui - Malaysia

Prof. Arumugam S. Balasubramaniam - Griffith University, Australia

Prof. Dennes T. Bergado - Bangkok, Thailand

Ir. Dr Chan Sin Fatt - Malaysia

Ir. Yee Yew Weng - Keller Southeast Asia

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

Prof. Yasou Tanaka - Universiti Tunku Abdul Rahman, Malaysia

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

TAIWAN Issue

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

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

Time Lines:

June 30, 2014 - Abstract due

July 31, 2014 - Notice of abstract acceptance

October 31, 2014 - Full paper due

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

January 31, 2015 - Final paper due

Committee in Charge:

Prof. Der Wen Chang (Editor in Charge)
Prof. Meei-Ling LIN
Prof. Chang Yu Ou
Dr. Richard Hwang

Advisors:

Prof. Yung-Show Fang
Prof. San-Shyan Lin
Dr. Chung Tien Chin
Dr. John C. Li
Dr. Za-Chieh Moh

HONG KONG Issue

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

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

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

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

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

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

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

INDONESIAN Issue

Theme: to be announced

Committee in Charge:

Dr. Nurly Gofar
Dr. Hasbullah Nawir
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

Theme: Ground Improvement & Piled Foundations

Committee:

Dr. Phung Duc Long (Team Leader)

Prof. Trinh Minh Thu

Mr. Mai Trieu Quang

Dr. Pham Huy Giao

Dr. Pham Van Long

Dr. Vu Hung

Advisors:

Prof. Nguyen Truong Tien

Prof. Nguyen Ba Ke

Dr. Noppadol Phienwej

Time Lines to be announced

50th ANNIVERSARY SPECIAL ISSUE for 2017

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

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

SEAGS MEMBERSHIP LIST

COUNTRY	Life Members, Ordinary Membership & Subscriptions of SEAGS by Country (February 2014)		
	Life Membership	Individual Membership	Subscribers
Australia	10	2	1
Austria	1		
Canada	3	1	3
Cambodia	1		
China	2	2	
Germany	1		
Hong Kong	6	2	3
India	1		
Indonesia	3	1	
Iraq	1		
Ireland			1
Italy			1
Japan	10	4	1
Kazakhstan	1		
Korea	5		1
Malaysia	14	22	
Mexico, D.F.		1	
Myanmar	2		
Pakistan	1		
Philippines	2		
The Netherlands			3
Norway	1		
R.O.C.	13	3	1
Scotland			
Singapore	8	3	
Spain	1		
Sweden	1		
Switzerland	3		
Thailand	8	7	
U.A.E.		1	
U.K.		1	
U.S.A.	6	4	8
Vietnam	1	1	
Total	106	55	23

LIST OF DONORS

Mr. Y. Y. Tseng

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

Mr. Hoow Kiong Ooi

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

Mr. June Soun Chen

AITAA-ROC Chapter
R.O.C.

INTERESTING WEBSITES

SGI-Line



- ▶ http://www.swedgeo.se/templates/SGIStandardPage_184.aspx?epslanguage=EN
- ▶ http://www.swedgeo.se/templates/SGIStandardPage_186.aspx?epslanguage=EN

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

2,000 references a year. Several references added during the recent years links to further information, full-text documents or abstracts/table of contents. SGI-Line is produced by the Swedish Geotechnical Institute, Sweden. Most of the documents, books, articles in journals, papers in conference proceedings, reports, theses, etc., referred to in the database are available in the SGI Library.

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

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

QuadSearch



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.

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

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/>

TAGAssoft ▶ <http://www.tagasoft.com/TAGAssoft>

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 16 th Southeast Asian Geotechnical Conference, 8 to 11 May 2006, Kuala Lumpur (Vol. 1 = 964 pages)	150	21	29
4.		Proceedings of the International Symposium on Geotechnical Aspects of the Suvarnabhumi Airport Thailand	50	10	20
5.		Proceedings of the 15 th Southeast Asian Geotechnical Conference, 22 to 26 November, 2004, Bangkok (Vol. I = 1,000 pages/ Vol.2 = 210 pages)	100	21	29
6.		Proceedings of the Malaysian Geotechnical Conference 2004, The Institute of Engineering Malaysia, 16-18 March 2004 (524 pages)	100	14	21
7.		Proceedings of the 14 th Asian Regional Conference on Geotechnical Engineering Meeting Society's Needs, Hong Kong, 10-14 December 2001 (2 Volumes)	100	10	15
8.		Proceedings of the GEOTECH-YEAR 2000, Developments in Geotechnical Engineering, Bangkok, Thailand, November 2000. All Volumes.	100	16	22
		Volume I (452 pages) Hard Bound	55	10	15
		Volume II (734 pages) Hard Bound	65	15	20
9.		Proceedings of the Civil and Environmental Engineering Conference – New Frontiers and Challenges, 8-12 November 1999. All Volumes. Soft bound.	200	37	50

	Volume 1 – Environmental Engineering (506 pages of 57 papers)	50	10	16
	Volume 2 – Geotechnical and Geo-environmental Engineering (700 pages of 78 papers).	50	13	19
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	Volume 4 – Transportation Engineering (428 pages of 47 papers).	50	10	16
	Volume 5 – Water Engineering and Management (598 pages of 67 papers).	50	13	19
	Volume 6 - Keynote and Special Lectures. (274 pages of 23 papers)	50	7	10
10.	Proceedings of the 13 th Southeast Asian Geotechnical Conference, Taipei, Taiwan, R.O.C, 16-10 November, 1998. Vol. 1 (851 pages), Vol. 2 (212 pages), Hard bound.	100	22	30
11.	Proceeding of the 30 th Year Anniversary Symposium on Deep Foundations, Excavations, Ground Improvements and Tunneling, Bangkok, Thailand, 03-07 November, 1997. 645 pages.	100	16	22
12.	Proceedings of the 12 th Southeast Asian Geotechnical Conference and the 4 th International Conference on Tropical Soils, Kuala Lumpur, Malaysia, May 1996. Vol. 1 (618 pages), Vol.2 (332 pages).	80	21	29
13.	Proceedings of the 11 th Southeast Asian Geotechnical Conference, Singapore, March 1993. Hard bound (864 pages).	80	16	22
14.	Proceedings of the Symposium on Developments in Geotechnical Engineering (From Harvard to New Delhi, January 1936-1994) Bangkok, Thailand. (694 pages).	80	10	15
15.	Proceedings of the Symposium on Prediction versus Performance in Geotechnical Engineering, Bangkok, Thailand, December 1992. Soft bound (645 pages)	80	10	15
16.	Handouts of the Short Course on Earthquake Resistant Design, Landslides, Slope Stability and Embankment Dams. 28 July – 1 August, 1997 (931 pages)	60	16	22

17.		Handouts of the Short Course on Geotechnical Analysis for Design and Construction Using Finite Element Program – CRISP. 3-6 February, 1997 (441 pages)	60	16	22
18.		Handouts of the Short Course on Estimation of Design parameters for Soils and Rocks from Laboratory and In-situ Tests. 10-14 June, 1996 (1086 pages)	60	21	29
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20.		Handouts of the Short Course on Slope Failures and Their Remedial Measures. July 1994 (500 pages)	40	10	15
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- ⌘ **SOIL ENGINEERING** - SEAGS Members are entitled for the Group Memberships in International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and subscriptions of "Geotechnical Engineering Journal" Current Volume No: 44 Year: 2013 (4 issues per year), and "SEAGS Newsletter" (Two issues per year - February and August) are included.
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