

AUGUST 2015 NEWSLETTER

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



19TH SOUTHEAST ASIAN GEOTECHNICAL CONFERENCE & 2ND AGSSEA CONFERENCE

Deep Excavation and Ground Improvement

31 May – 3 June 2016

Dorsett Grand Subang, Subang Jaya, Malaysia



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



PENANG BRIDGE
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SPECIAL COUNTRY ISSUE OF THAILAND

DR. SURACHAT SAMBHANDHARAKSA MEMORIAL ISSUE

ADVANCES IN GEOTECHNICAL ENGINEERING FOR INFRASTRUCTURE DEVELOPMENTS

EDITORS

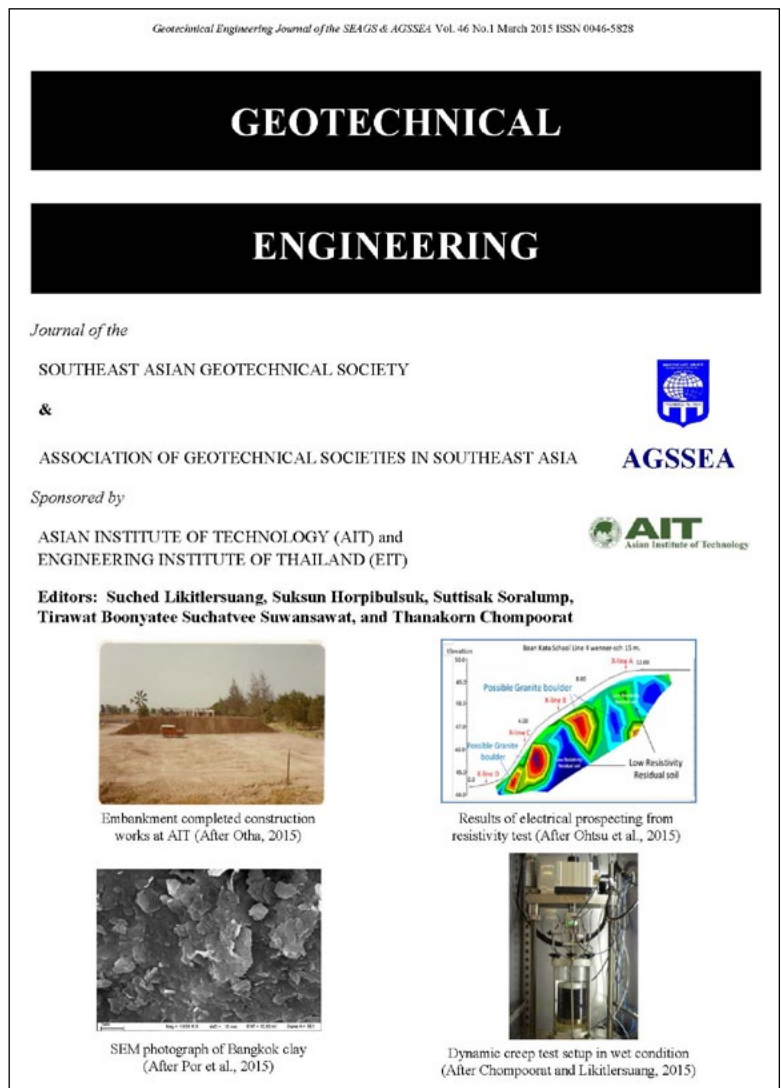
Suched Likitlersuang
Suksun Horpibulsuk
Suttisak Sorulump
Tirawat Boonyatee
Suchatvee Suwansawat
Thanakorn Chompoorat

PREFACE

Welcome to Geotechnical Engineering Journal of the Southeast Asian Geotechnical Society (SEAGS) and the Association of Geotechnical Societies in Southeast Asia (AGSSEA). It is our great pleasure to serve as the editors for the first issue of 2015 and also the special country issue of Thailand. Our editorial team consists of Prof. Suched Likitlersuang from Chulalongkorn University, Prof. Suksun Horpibulsuk from Suranaree University of Technology, Dr. Suttisak Sorulump – President of Thai Geotechnical Society, Dr. Tirawat Boonyatee – Vice president of Thai Geotechnical Society, Prof. Suchatvee Suwansawat – President of Engineering Institute of Thailand, and Dr. Thanakorn

Chompoorat from University of Phayao. We are also supported by Prof. A.S. Balasubramaniam as the editor-in-chief and Dr. Teik Aun Ooi as the president of SEAGS to launch this special issue. The rigorous blind peer review process has been carried out by international reviewers, while every effort was carefully made to ensure the technical quality of the journal. We highly appreciate our reviewers for their time and effort.

The theme of this special issue is Advances in Geotechnical Engineering for Infrastructure Developments in Thailand. The articles cover a wide range of topics from theoretical soil mechanics to geotechnical applications for Thailand's infrastructure developments. This special issue of Geotechnical Engineering Journal of the SEAGS & AGSSEA is comprised of fourteen articles with a selection of authors from four countries including Australia, China, Japan and Thailand.



The first invited paper by Ohta (2015) presents consolidation settlement due to the embankment construction on soft Bangkok clay. The paper also acknowledges the technical communication with Dr. Surachat Sambhandaraksa related to consolidation settlement. Two papers (Ohtsu et al., 2015 and Jotisankasa et al., 2015) present field studies of slope stability due to rainfall in Thailand. The topics related to ground improvement for soft soil are still interested in this issue such as using chemical stabilisation (Horpibulsuk, et al., 2015, Fan, et al., 2015 and Julphunthong, 2015) and vacuum consolidation technique (Shibata et al., 2015). Two papers (Ukritchon and Boonyatee, 2015 and Horpibulsuk and Liu, 2015) related to soil modelling and its parameter calibration are included in this issue as well. Chompoorat and Likitlersuang (2015) summaries mechanical properties of hot mix asphalt for pavement design. Undrained shear strength of Bangkok clays from various laboratory techniques are discussed by Ratananikom et al. (2015). A review of pile foundation design on Bangkok subsoils is presented by Boonyatee et al. (2015). 3D finite element analysis of the potential use of piled raft foundation on Bangkok subsoils is proposed by Watcharasawe et al. (2015). Lastly, Por et al. (2015) presents a laboratory investigation of expansive soil behaviour.

We consider that this special issue summaries some recent advances in geotechnical engineering for infrastructure developments in Thailand. We also hope that it could make an important contribution to other countries in the Southeast Asia.

Suched Likitlersuang
Thanakorn Chompoorat

Suched Likitlersuang

Suched Likitlersuang graduated with a bachelor degree in civil engineering from Chulalongkorn University in 1998 and received a master in geotechnical engineering from Asian Institute of Technology in 2000. He attained a doctorate in civil engineering from the University of Oxford in 2004. Suched is currently a full professor at the Department of Civil Engineering, Chulalongkorn University. He is members of the Thai Geotechnical Society and the Engineering Institute of Thailand. He is also an Editorial Board member of Geotechnical Research and serves as a Guest Editor of the Southeast Asian Geotechnical Society Journal special issue for Thailand. Suched has published over 70 articles in international conference proceedings and international journals. His research interests include constitutive modelling for geomaterial and asphaltic concrete, stress-strain characteristic of soils, numerical analysis in geomechanics, geo-environments, geotechnical earthquake engineering and soil bioengineering.

Thanakorn Chompoorat

Thanakorn Chompoorat was born in Thailand in 1980. He graduated the Bachelor degree in Civil Engineering from Srinakharinwirot University in 2003. He also received the Master and the Doctoral degrees in Geotechnical Engineering from Chulalongkorn University in 2005 and 2009 respectively. He is currently an Assistant Professor and Assistant Dean for Research and Academic Service of the Department of Civil Engineering, University of Phayao. Thanakorn is a member of the Thai Geotechnical Society as well as the Engineering Institute of Thailand and presently also serves as an Editorial Secretary of the Southeast Asian Geotechnical Society Journal special issue for Thailand. His main research interests are soil behaviour and pavement material behaviour, numerical analysis for soil and pavement material, and constitutive modelling and plasticity.

ACKNOWLEDGEMENT

At the very outset, we would like to acknowledge the skill of Prof. Suched Likitlersuang, who headed the team of Guest Editors in producing this excellent issue. This issue honours the late Dr. Surachat Sambhandaraksa a very long time friend of ours and a past president of the SEAGS. This is also the Thai country issue produced in such a short time, while some other country issues will only appear in 2016. The topics and the authors are adequately described in the Preface. The SEAGS and the AGSSEA as well as the Thai Geotechnical Society (TGS) are very grateful to the Editors, authors and reviewers for their excellent work.

A good teacher is often measured by the quality of his students. Dr. Surachat had graduated from Chulalongkorn University going to almost all the good universities to do doctoral studies. It is appropriate to have a brief biodata of Dr. Surachat.

Dr. Surachat Sambhandharaksa, a past president of the Southeast Asian Geotechnical Society (SEAGS) from 1996 to 1999. A modest and clever achiever, Surachat was the earlier colleague of late Dr. Chai Muktabhant and Prof. Vichien Tengamnuey at Chulalongkorn University. Surachat always had an international outlook with his early education at the University of New South Wales in Australia in 1967; then his master degree from the Asian Institute of Technology (AIT) in 1970; later Surachat went to the Northwestern University and finally obtained his Sc.D. degree from the Massachusetts Institute of Technology (MIT), the United States of America in 1977. When he returned to Chulalongkorn University, Surachat was also a lecturer much in demand at the AIT. He was actively involved in most of the major projects in Bangkok and Thailand. He has real world experience in geotechnical engineering practice with sound knowledge on the fundamentals of soil behaviour. His practice is in embankments and piled foundations. He was a much sort out consultant in Bangkok. At AIT, we needed a person like Surachat to teach our design courses. Surachat also taught a popular course for non-soil engineers and this is really popular. Surachat, received the Outstanding Award of the Teaching from Chulalongkorn University and was voted as the best Geotechnical Engineer in Thailand in 2006. He was also the chairman of the organizing committee of the 15th Southeast Asian Geotechnical Conference held in Bangkok in November 2004. Popularly called as Sam at MIT, Surachat has a charming personality always joyful and friendly in nature. Surachat hails from a good family with his father as the professor of surgery at the Faculty of Medicine in Chulalongkorn University. We all miss him a lot and his premature death is a great loss to his family and friends.

Finally, Dr. Surachat is highly respected internationally, Prof. Harry Poulos made the comment as follows:

“Dr Surachat was a leading figure in Geotechnical engineering in Thailand for many years, and a person who was vastly experiencing in identifying and solving problems related to foundations in the often-challenging ground conditions in Bangkok. I first met him at one of the early Southeast Asian Geotechnical conferences, and it was quite clear that his knowledge of the characteristics of Bangkok soils was second to none, and that he was well-placed to advise clients on foundation design in these soils. He was also was a congenial host and dinner companion at a number of conferences held in Bangkok. Apart from his practical geotechnical skills, he was able to pass on his knowledge to many students who had the privilege of studying under him at Chulalongkorn University and at AIT. He was very proud of his educational background, first in Australia, and then at MIT, where he studied with some of the pioneers of soil mechanics such as Lambe, Ladd and Whitman. He achieved recognition for his expertise both in Thailand and in Southeast Asia more generally, and with his passing, the Southeast Asian region has lost one of its elder statesmen in the geotechnical profession.”

Finally, We thank the Guest Editors, the authors of the papers and the reviewers, who made the most valued contribution in making this Issue feasible.

K. Y. Yong

N. Phienwej

T. A. Ooi

A. S. Balasubramaniam

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SPECIAL ISSUE ON PILE FOUNDATIONS

EDITORS

San-Shyan Lin
Charnq Hsein Juang
Robert Liang

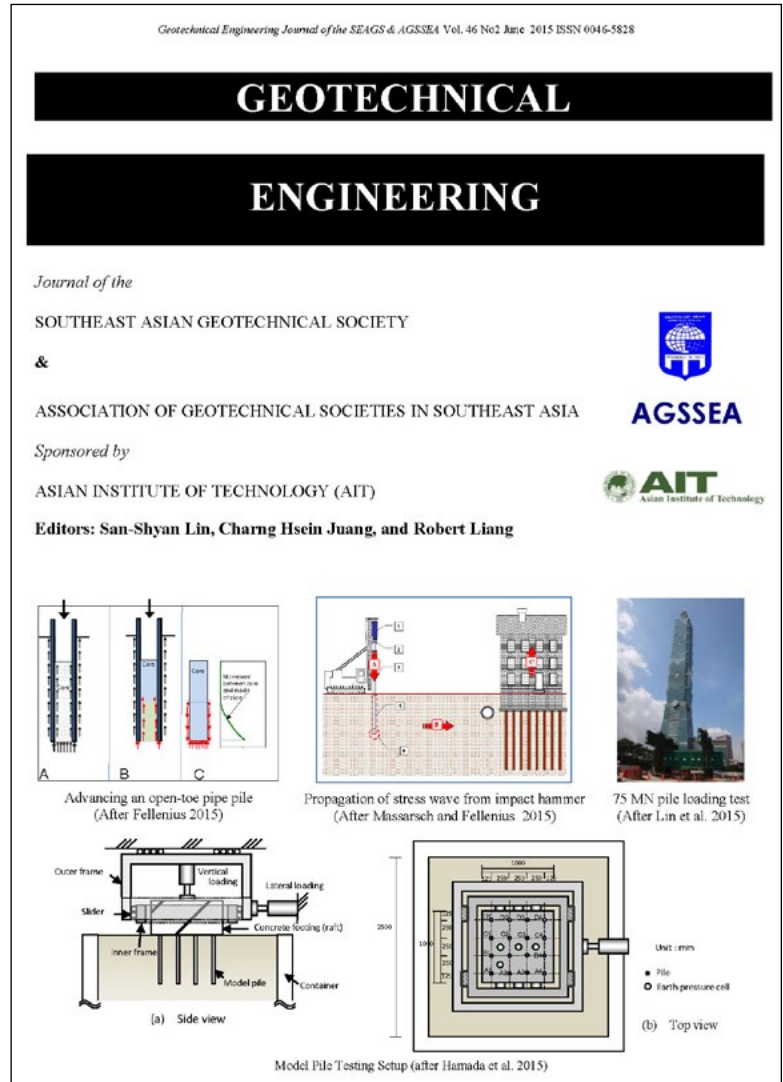
PREFACE

The theme of the 2015 June issue is Pile Foundations. The guest editors for this special issue are Professor San-Shyan Lin at National Taiwan Ocean University, Taiwan, Prof. Charnq Hsein Juang at Clemson University, USA, and Prof. Robert Liang at Akron University, USA contributed to the editorial management. Prof. A.S. Balasubramaniam as the Editor-in-Chief and Dr. Teik Aun Ooi as the President of SEAGS strongly supported the launch of this special issue on Pile Foundations.

The topics and scope covered in this special issue are comprehensive and interdisciplinary, ranging from backanalysis of pile load test, piled-raft analysis, ground vibration caused by impact pile driving, analysis of bi-direction-cell test, effect of aging on barrette pile, compar-

ison on dynamic response of a single pile using different approaches, response of “plug” in open-toe pipe pile, effect of toe grouting of IGM socketed drilled shaft, reliability-based design on foundation and ultimate resistance of drilled shaft by probabilistic approach. The issue is comprised of twelve papers with a selection of the authors from seven countries involving Canada, Japan, Lebanon, Sweden, Taiwan, Thailand and USA.

Niazi and Mayne develops new sets of shear stiffness reduction curves from the back-analyses of 299 static axial pile load tests from 61 sites towards the implementation of a non-linear load-displacement response method for pile foundations. Subsequently, the elastic continuum solution is exploited by them to present a methodology for drawing the stiffness reduction curves as functions of depth. These curves are further utilized in modeling the pile as a stack of smaller shaft segments embedded in multi-layered soils. Hamada et al. presents static cyclic lateral loading tests on large-scale piled raft foundations carried out to investigate the influence of vertical load and pile spacing ratios during earthquakes. Yamashita et al. applies and modifies the simple method proposed by Clancy and Randolph (1996) on piled raft analysis. Four case histories in Japan are examined through comparisons with the field monitoring results. Massarsch and Fellenius describe the application of the Swedish standard which regulates permissible ground vibrations caused by driving of piles, sheet piles, or ground compaction. Fellenius explains how



to use the bidirectional-cell test data on a pile to establish the load distribution for the pile, which enabled determining the distribution of the effective-stress beta-coefficients for the pile response. Teparaksa presents testing process and discusses the result of different barrette pile static load tests, especially on aging effect on pile capacity. Lu and Chang presents a case study on dynamic behaviors of coal ash soils obtained in a landfilled field in north Taiwan and also the dynamic interaction of a single pile foundation sitting in the landfills. Fellenius recommends how to analyze the response of an open-toe pile. A comparison is also provided between the results of a simulated static loading test on a closed-toe and an open-toe pipe pile. Lin et al. presents the axial performance of two heavily instrumented drilled shafts, with and without toe grouting, socket in intermediate geomaterials in Taipei city. Abdallah et al. presents the results of a comprehensive investigation that is conducted to study the effect of choosing different proof-load test programs on the reliability of piles. Luo et al. evaluates and compares existing probabilistic approaches for determining the ultimate resistance of drilled shafts in sands considering the spatial variability of soil properties.

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

San-Shyan Lin
Charng Hsein Juang
Robert Liang

Prof. San-Shyan Lin

Professor Lin is a Professor at Department of Harbor and River Engineering of National Taiwan Ocean University in Taiwan. He received his Ph.D. degree in Civil Engineering from Washington University in St. Louis, Missouri USA in 1992. Dr. Lin was an engineer at Taiwan Area National Expressway Engineering Bureau from 1992 to 1994. Prof. Lin's research and practical experiences have dealt with drilled shaft foundations, earth reinforced structures and effects of scouring on bridge foundations.

Prof. Lin has published more than 110 peer-reviewed journal papers and conference papers. In 2012, Prof. Lin served as chairman of organization committee of 5th Taiwan-Japan workshop of earthquake and heavy rainfall held in Tainan, Taiwan; member of international organizing committee of 7th Asian young geotechnical engineer conference held in Tokushima, Japan; and member of both international advisory committee and technical committee of Geosynthetic Asia 2012 in Bangkok, Thailand.

Prof. Lin is currently serving as the member of conference advisory committee of 18th Southeast Asian Geotechnical Conference and member of international advisory committee of International Symposium on Advances in Foundation Engineering. In addition, Prof. Lin is serving as the President of Taiwan Geotechnical Society and the CEO of Sino-Geotechnics Research and Development Foundation in Taiwan. Prof. Lin also served TRB A2K03 Committee on Foundations of Bridges and Other Structures between 1995 and 2004 and serves as a member on the editorial boards for four major international journals in geotechnical engineering.



Prof. Charng Hsein Juang

Dr. Juang received his Ph.D. degree in Civil Engineering from Purdue University in 1981. He joined the faculty of Clemson University in 1982 and has been with Clemson University ever since. Dr. Juang has a broad research interest in the field of geotechnical engineering. His past research work dealt with slope



stability, soil-buried pipes interaction, soil and rock properties, pile foundations, fuzzy sets and uncertainty modeling in geotechnical engineering. His current research work deals with liquefaction, site characterization, braced excavation, reliability and probabilistic methods in geotechnical engineering, and fuzzy and neural network applications in geotechnical engineering.

Dr. Juang has received a number of awards and honors. He was proud to be selected by his students through Chi Epsilon for Outstanding Teacher Award in 1985. Among his awards and honors are the Outstanding Research Paper Award by the Chinese Institute of Civil and Hydraulic Engineering (1976), the TK Hsieh Award by the Institution of Civil Engineers of the United Kingdom (2001), the Clemson University Board of Trustees Award for Faculty Excellence (2002), election to ASCE Fellow (2007),

and appointment to Chair Professor at National Central University, Taiwan.

His professional services include:

- Chair, ASCE/GI Committee on Risk Assessment and Management (2009-2012); Secretary, (2003-2009); Member (1993-present)
- Co-Editor in Chief, Engineering Geology (2012-present)
- Associate Editor & Editorial Board Member, ASCE Journal of Geotechnical and Geoenvironmental Engineering (2004-2012)
- Editorial Board, Journal of GeoEngineering (2006-present)
- Editorial Board, Georisk (2009-present)
- Conference Chair, ASCE Geo Institute Specialty Conference, GeoRisk 2011, Geotechnical Risk Assessment and Management, Atlanta, June 26-28, 2011.

Prof. Robert Liang

Dr. Robert Liang holds a title of University Distinguished Professor in the Department of Civil Engineering at the University of Akron. He also serves as the Director for the Center for Infrastructure Materials and Rehabilitation. Since receiving his Ph.D. in 1985 from the University of California in Berkeley, Dr. Liang has been with the University of Akron. From 1994 to 2000, he served as Civil Engineering Department Chair.

Dr. Liang has conducted research in areas such as geotechnical engineering, pavement engineering, and infrastructure materials and rehabilitation technologies. His research has resulted in more than 300 journal and conference papers, with practical impacts on design and construction practices. Dr. Liang is active in ASCE (American Society of Civil Engineers), TRB (Transportation Research Board), and DFI (Deep Foundation Institute) committee works. He serves as associate editor for the ASCE's Journal of Engineering Mechanics and Journal of Geotechnical and Geoenvironmental Engineering. Currently, he is on the editorial board for several international journals, such as Georisk, and Journal of GeoEngineering.

Dr. Liang received Wendell R. Ladue award from ASCE Akron-Canton Section for his outstanding contributions to the profession. He also received Louis Hill award from College of Engineering in recognition of his exemplary achievements in both research and teaching. He received outstanding service award from the Great Lakes Geotechnical and Geoenvironmental Engineering Organization for his service as the president of the organization. In recognition of his contributions to civil engineering, Dr. Liang was elected to Fellow of ASCE in 2009.



Prof Ikuo Towhata

President, Japanese Geotechnical Society (2014-2016)

Vice President for Asia, International Society for Soil Mechanics and Geotechnical Engineering (2009-2017)



**SPECIAL FEATURE STORY ON “Liquefaction Problems in the 21st Century”
by Prof Ikuo Towhata**

Prof Ikuo Towhata

Prof Ikuo Towhata obtained his Bachelor of Engineering degree from the University of Tokyo in 1977. He obtained his Master of Engineering and Doctor of Engineering in 1979 and 1982 respectively from the same university. In 1985 he was Assistant Professor at the Asian Institute of Technology in Bangkok and in 1986 as Associate Professor at Chulalongkorn University in Bangkok. He returned to work in Tokyo University as an Associate Professor in 1987. In 1989 he was Associate research fellow at PWRI Ministry of Construction. He was Professor at Tokyo University from 1994 to 2014 and since 2015 he is Visiting Professor at Kanto Gakuin University, Department of Civil Engineering Yokohama Tokyo Japan.

Professor Towhata has 32 years of research experience and his special areas of interest are Deformation characteristics of cohesionless soils; Dynamic analysis of earth structures during earthquakes; Permanent displacement of ground caused by seismic liquefaction; Soil improvement by densification and grouting; Stability of seabed in static and dynamic manners; Thermal effects on mechanical behavior of clays; Microscopic Observation of Granular Behavior of Sand Subjected to Shear; Dynamics of landslide and debris flow.

Professor Towhata is active in public service and was Board member of Japanese Geotechnical Society for two terms; Board member of Japan Association for Earthquake Engineering for one term; Board member of Japan Landslide Society for two terms; Chairman of Editing Committee of Soils and Foundations Journal, the Japanese Geotechnical Society in 2005-2008; Chairman of Geotechnical Committee, Japan Society for Civil Engineers in 2007-2008; Vice President, Japan Association for Earthquake Engineering in June 2009-May 2011; President, Japanese Geotechnical Society in 2014-2016; Appointed Board Member and then Vice President for Asia, International Society for Soil Mechanics and Geotechnical Engineering in 2009-2017; Associate Member of Science Council Japan in 2014-2020. He is currently Member of the Japanese Geotechnical Society; Member of the Southeast Asian Geotechnical Society;

Member of the International Society of Soil Mechanics and Geotechnical Engineering; Fellow member of the Japan Society of Civil Engineers and Member of the Japan Association for Earthquake Engineering.

Professor Towhata has been invited to deliver Keynote Lectures and Special Lectures in many international conferences. He has published more than 600 papers and has published many books notably:

Towhata, I. (1999). Air photographs of the Niigata city immediately after the earthquake in 1964, Japanese Geotechnical Society, ISBN4-88644-054-1.

Towhata, I. (2008) Geotechnical Earthquake Engineering, ISBN 978-3-540-35782-7, pringer Verlag- Berlin Heidelberg.

Towhata, I. and Jiang, Y.-J., 2010. Geotechnical Aspects of 2008 Wenchuan earthquake, China, Chapter 8, Advances in Earthquake Geotechnical Engineering, Springer.

Professor Towhata has won many awards and among them the Japanese Geotechnical Society; Technological Development Award in 2015; Japan Society of Civil Engineers; Best book publication award in 2009; Japanese Geotechnical Society, Award for the Best Paper of the Year 2003; 2004 and the best twelve papers out of 600 at GeoEng2000 Conference at Melbourne in 2000.

ACKNOWLEDGEMENT

The lead editor of the June 2015 Issue on Piled Foundation is Prof. San Shyan Lin with team members Prof. Charng Hsein Juang and Prof. Robert Liang. Prof. San Shyan Lin is of immense help to the SEAGS-AGSSEA Journal as a Member of the Team of Editor in Chief. It is worthy to mention that the Taiwan Geotechnical Society is the most active supporter of all SEAGS-AGSSEA activities including the Journal. There were many Issues of the Journal edited by members of CTGS (Chinese Taipei Geotechnical Society). They also contribute many articles and this is a most welcome culture which should be a model example to follow by other AGSSEA member countries. Gradually, we have been very successful in engaging members of AGSSEA to contribute to the journal and take much of the responsibility in contributing articles, engaged in reviewing and other aspects related to the journal. The country issues in 2016 and the Anniversary Issues in 2017 will further enhance the success in the active participation of AGSSEA members in the journal.

In the preface, Prof. San Shyan Lin and his team has already covered adequately the contents of the papers from an international set of prestigious authors and all articles were also reviewed by experts in the field. Details of the reviewers will be assembled in the December Issue for all the articles published in 2015. SEAGS-AGSSEA Journal is always very practice oriented and this well reflected in the contributions contained in this issue as well.

There are twelve excellent papers written by well known authors from : USA, Japan, Sweden, Canada, Thailand, Taiwan and other countries. No doubt, this Issue will be most useful to our Profession and all those who are engaged in Pile Foundation Research and Practice. Sincere thanks to all who have contributed to the success of this issue of our journal under the able leadership of Prof. San Shyan Lin.

We are grateful to Professor Ikuo Towhata for his contribution of Special Feature Story on “Liquefaction Problems in the 21st Century” in this issue.

K. Y. Yong

N. Phienwej

T. A. Ooi

A. S. Balasubramaniam

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HISTORY of SEAGS and AGSSEA

Website link ► <http://seags.ait.asia/about-us/history/>

HISTORY

This is an attempt to combine the history of [SEAGS](#) founded in 1967 and exist to date and [AGSSEA](#) formed in 2007.

The [Southeast Asian Geotechnical Society \(SEAGS\)](#) was founded in 1967 by Dr. Za Chieh Moh as a regional society to cover Thailand, Malaysia, Singapore, Philippines, Hong Kong, Indonesia and Taiwan. It is affiliated with the International Society for Soil Mechanics and Foundation Engineering (ISSMFE), the International Association of Engineering Geology (IAEG) and the International Society for Rock Mechanics (ISRM).

The [Association of Geotechnical Societies in Southeast Asia \(AGSSEA\)](#) had its origin at the 16th Southeast Asian Geotechnical Conference (16SEAGC) held in Kuala Lumpur in 2007. Currently, it has eight national member societies. They are the Southeast Asian Geotechnical Society (SEAGS), Vietnam Society for Soil Mechanics and Geotechnical Engineering (VSSMGE), Hong Kong Geotechnical Society (HKGES), [Geotechnical Society of Singapore \(GeoSS\)](#), [Thai Geotechnical Society \(TGS\)](#), [Chinese Taipei Geotechnical Society \(CTGS\)](#), Indonesian Geotechnical Society (HATTI) and [Malaysian Geotechnical Society \(MGS\)](#). The current chairman is Prof. Yong Kwet Yew from the National University of Singapore (NUS).

Combining the history of SEAGS which has been so active from the time of inception to date with AGSSEA is not an easy task. It was thought that SEAGS history will be presented first from 1967 to 2007 till the AGSSEA is formed.

- [Biodata of President and Past President of the Southeast Asian Geotechnical Society \(SEAGS\)](#)
- [Biodata of Chairman and Past Chairman – AGSSEA](#)
- [Biodata of Prof. Dennes T. Bergado](#)
- [The Association of Geotechnical Societies in Southeast Asia \(AGSSEA\)](#)
- [Malaysian Geotechnical Society \(MGS\)](#)
- [Chinese Taipei Geotechnical Society \(CTGS\)](#)
- [Singapore Geotechnical Society \(GeoSS\)](#)
- [Thai Geotechnical Society \(TGS\)](#)
- [The development of geotechnical engineering activities in Southeast Asia](#)
- [SEAGS and AIT](#)
- [Southeast Asian Conferences \(1967 – present\)](#)
- [Asian Regional Conferences \(1967 – 2015\)](#)
- [SEAGS participation at International Conferences in the past](#)
- [SEAGS participation at Executive Committee meetings in the past](#)
- [Society Journal editors \(1970 – present\)](#)
- [Symposia and courses \(1977 – 2010\)](#)
- [Editors & Guest Editors \(1970-2015\)](#)
- [Editorial Panel](#)
- [Reminiscence](#)

SEAGS-AGSSEA PARTNERSHIP





From the very inception of the Society, the Secretariat has been located at the [Asian Institute of Technology](#) (AIT) in Bangkok where much of the **geotechnical engineering research** in Thailand has been conducted.

International Affiliations

The objectives of the Society when it was created in 1967 by Dr. Za Chieh Moh was to promote cooperation among engineers, geologists and other scientists in Southeast Asia for the advancement of knowledge in **geotechnical engineering**. This has clearly been fulfilled over the years through periodic meetings within the region for discussion of geotechnical engineering topics, geotechnical engineering conferences, symposia, seminars and lectures held in the region, publication of a journal which contains papers of interest to geotechnical engineers, and collaboration with the International Society for Soil Mechanics and Foundation/Geotechnical Engineering (ISSMFE/ISSMGE), the International Association of Engineering Geology (IAEG), the International Society for Rock Mechanics (ISRM) and such other bodies and societies as appropriate.

The President & past Presidents of the Society

Dr. Za-Chieh Moh (1967 – 1973)
Prof. Chin Fung Kee (1973 – 1975)
Prof. Peter Lumb (1975 – 1977)
Dr. Tan Swan Beng (1977 – 1980)
Dr. E. W. Brand (1980 – 1983)
Dr. Ting Wei Hui (1983 – 1985)
Prof. A. S. Balasubramaniam (1985 – 1987)
Prof. Seng Lip Lee (1987 – 1990)
Dr. Chin Der Ou (1990 – 1993)
Dr. Ooi Teik Aun (1993 – 1996)
Dr. Surachat Sambhandharaksa (1996 – 1998)
Dr. John C.C. Li (1998 – 2001)
Prof. Kwet Yew Yong (2001 – 2007)
Dr. Chung Tien Chin (2007 – 2010)
Dr. Ooi Teik Aun (2010 – present)

The Secretary General & past Secretary-General of the Society

Dr. Robert Mackey (1967 – 1970)
Dr. John Nelson (1970 – 1973)
Prof. A.S. Balasubramaniam (1972 – 2000)
Prof. D.T. Bergado (2000 – 2013)
Dr. Noppadol Phienwej (2013- present)

COUNTRY EVENTS

MALAYSIA Malaysian Geotechnical Society (MGS)

CONFERENCE REPORT (ICETUS2015)

The 3rd International Conference and Exhibition on Tunnelling and Underground Space 2015

The 3rd International Conference and Exhibition on Tunnelling and Underground Space was successfully organised by The Institution of Engineers, Malaysia (IEM) from 3rd – 5th March 2015 at the Dorsett Grand Subang Hotel, Subang Jaya, Selangor Darul Ehsan. The theme of the Conference was Sustainable Transportation in Underground Space Development. This Specialty Conference was well attended by 207 participants globally. The Conference was supported by The Institution of Civil Engineers (ICE) with many members attended the conference.

The International Tunnelling and Underground Space Association (ITA) gave strong support by holding its Executive Committee meeting in Petaling Jaya Hilton Hotel to coincide with the ICETUS2015. A Pre-Conference Workshop entitled “Tunnels for Transport in Urban Areas” was also jointly organised by Tunnelling and Underground Space Technical Division of IEM and the ITACET Foundation on 28th February and 1st March 2015 at the Tan Sri Prof Chin Fung Kee Auditorium, Wisma IEM, Petaling Jaya, Selangor Darul Ehsan. The workshop was attended by 40 participants. Technical Session 1 started with Mr. Søren Eskesen delivering his paper on “Why go underground in urban areas” and “General aspects of urban tunnelling – Environmental issues”. Mr. Felix Amberg presented his paper on “Presentation of the different tunnelling methods in urban areas and elements for the choice of the method”.

Mr. T. Babendererde delivered his lectures on “Slurry shield, EPB, soil conditioning” and “Segmental lining design for mechanized tunnelling” during Session 2. Papers on “Excavation methods and basics aspects of design” and “Ground reinforcement, support, lining” were presented by Mr. T. Celestono in Session 3. During Session 4, Mr. S. Eskesen delivered his paper on “Risk management for urban tunnels”, Mr. D. Peila on “Site investigation and “Health & Safety” by Ms. R. Haug. Ms. E. Chirioti presented her paper on “Geotechnical monitoring” while Mr. F. Amberg delivered his lecture on “TBM Monitoring”. Session 6 started with Case Studies 1 on “TBM Solution & Leak Sealing Repair” by Mr. Kah Fai Lee and Case Studies 2 on “Metro case studies – SYSTRA” by Mr. E. Leca. Mr. Gusztav Klados delivered his lecture on “KVMRT Project: TBM Procurement and Tunnelling” while Ir. Dr Ooi Lean Hock delivered his lecture on “Site Investigation, Advance Works before Tunnelling and Instrumentation and Monitoring for KVMRT Project”.

The Workshop ended at 6.30 pm on 1st March 2015. Ir. Dr Ooi Teik Aun presented mementos and Certificates of Appreciation to all the lecturers.



Group picture of ITA and IEM Council members with the Organizing Committee members

At the Opening Ceremony of ICETUS2015 in the morning of 3rd March 2015, the Organizing Committee Chairman Ir Dr Ooi Teik Aun delivered his welcoming speech and this was followed by the ITA President Mr. Søren Degn Eskesen who reported that:

1. More than 1500 delegates and participants from the ITA family met at the last meeting in Iguassu in Brazil in May 2014 on the occasion of the ITA 40th General Assembly and World Tunnel Conference 2014 (WTC2014);
2. The General Assembly approved the ITA Strategic Plan going forward to 2016

As part of the strategy it was decided on an updated vision:

The ITA Vision

“ITA - the leading international organization promoting the use of tunnels and underground space through knowledge sharing and application of technology.”

Prepared by



Ir. Dr Ooi Teik Aun, Hon FIEM, FICE, FMIArb, FMSA

► [Click here to view more details and photos from the ICETUS2015 event.](#)

One Day Short Course on PILE FOUNDATION ANALYSIS AND DESIGN

PROFESSOR HARRY POULOS

3 June 2016 (8.30 am to 6.00 pm)



Venue:

Tan Sri Prof. Chin Auditorium

Wisma IEM, Jalan Selangor

46000 Petaling Jaya

Selangor Darul Ehsan

Organized by:

IEM Geotechnical Engineering Technical Division

Supported by

The Southeast Asian Geotechnical Society (SEAGS)

The Association of Geotechnical Societies in Southeast Asia (AGSSEA)

The Institution of Civil Engineers (ICE)

Managed by: **IEM Academy Sdn Bhd**

A brief outline of the proposed course is as follows:

PILE FOUNDATION ANALYSIS AND DESIGN

1. Introduction – application of piles, effects of installation.
2. Ultimate axial pile capacity
3. Settlement of piles and pile groups
4. Lateral response of piles and groups
5. Effects of ground movements on piles
6. Load testing.

Keywords: Pile foundation, Analysis & Design, Installation effects, Pile capacity, Pile settlement, Lateral response, Ground movement, and Load testing

Contact Details:

Chairman,
IEM Academy Sdn Bhd
P.O. Box 224, Jalan Sultan
46720 Petaling Jaya
Selangor Darul Ehsan

PROFESSOR HARRY POULOS

Biodata

Harry Poulos joined the Department of Civil Engineering at Sydney University in 1965, and was appointed a Professor in 1982, a position he held until his retirement in 2001. In 1989, he joined Coffey Partners International, and is currently a Senior Principal with Coffey. He is also an Emeritus Professor at the University of Sydney. He has been involved in a large number of high-rise and infrastructure projects in Australia and overseas. He was selected as the Australian Civil Engineer of the Year for 2003 by the Institution of Engineers Australia, and in 2010, was elected a Distinguished Member of the American Society of Civil Engineers. In 2014, he was inducted into the US National Academy of Engineering. Professor Poulos is a member of SEAGS and is a strong supporter and has taken an active part in numerous SEAGS conferences. He has been an Adviser of the Editorial Board, a Feature story contributor, Reviewer and a contributor of technical articles to the SEAGS Journal of Geotechnical Engineering.



CHIN FUNG KEE COMMEMORATIVE DINNER

The Institution of Engineers Malaysia (IEM) is holding a commemorative dinner on 12th September 2015 to celebrate the 63rd Anniversary of Chin Fung Kee dedicated service to Engineering Education and the Engineering Profession at the One World Hotel in Petaling Jaya. The occasion already registered more than 400 engineers from Malaysia and worldwide participation. IEM is an Institution member of the Southeast Asian Geotechnical Society (SEAGS) and is the main organizer and underwriter of the SEAGC2016 to be held in Kuala Lumpur on 31 May – 3 June 2016.

A Commemorative CD will be produced in conjunction with the event. The CD will contain Tan Sri Datuk Professor Dr. Ir. Chin Fung Kee - His Life and Contributions, Professor Chin Fung Kee Memorial Lectures IEM Series – 1991 to 2014, Selected





Publications of Professor Chin Fung Kee and Chin Fung Kee Lectures SEAGC Series – 1991 to 2013. The CD will also contain the Inaugural Lecture to be delivered by the President of The Institution of Engineers, Malaysia (IEM) on the 12th September 2015.

All these lectures and the selected papers of Professor Chin will be of immense value to the engineers.



Brief histories of IEM and the Southeast Asian Geotechnical Society (SEAGS) are also included as Prof Chin devoted much of his time in these two institutions.

Papers related to engineering education and practices written by people who are close to Professor Chin will be also included as they form part of the important histories of engineering education and practice in Malaysia.

For those interested in the Dinner event and the CD please contact by Email:
andrita@iemasb.com

PENANG BRIDGE



The Penang Bridge is located on a tolled highway route E36 which formed part of the North-South Highway and is the first Cable-stayed concrete Box girder bridge, with a 13.5-kilometre dual carriageway and a height of 102m in Malaysia linking the mainland of Penang state at Seberang Perai to Gelugor, in the island of Penang.

The bridge was designed by **Tan Sri Datuk Professor Chin Fung Kee** while he was a Director with the consulting firm Jurutera Kumpulan Consultant (JKC) in 1970s – 1990s. Professor Chin was the Project Director in charge of the design and construction of the bridge with a team of engineers. The Bridge was opened on 14th September 1985. The bridge was designed and built to withstand seismic loading of 0.1g and seismic isolation Rubber Bridge bearing pad was first used in the world.



A book authored by Professor Chin on the Design and Construction of the Penang Bridge was published by the Highway Authority of Malaysia (also known as Lembaga Lebuhraya Malaysia, LLM).

A highway leading to the Penang bridge in Jelutong was named after Professor Chin Fung Kee in recognition of his contribution.

IEM SERIES – 1991 TO 2014

The 1st Prof. Chin Lecture:

“In Praise of Engineering”

by Prof. T.H. Hanna

The 2nd Prof. Chin Lecture:

“Rehabilitation of Ex-mining Land for Building and Road Construction”

by Ir. Dr. Ting Wen Hui

The 3rd Prof. Chin Lecture:

“Up-down Construction of Tall Building”

by Prof. Lee Seng Lip

The 4th Prof. Chin Lecture:

“Engineering Education in Malaysia: Past, Present & Future”

by Dato’ Ir. Prof. Muhammad Ridzuan bin Haji Salleh

The 5th Prof. Chin Lecture:

(1) **“The Risks of Daily Life”**

by Dr. Edmund C. Hambly

(2) **“What is a Successful Urban Transit Project?”**

by Prof. Tony M. Ridley

The 6th Prof. Chin Lecture:

“Foundation Failures”

by Ir. Dr. Chan Sin Fatt

The 7th Prof. Chin Lecture:

“Geotechnical Problems Related to Design and Construction of the Taipei Rapid Transit Systems”

by Dr. Za-Chieh Moh

The 8th Prof. Chin Lecture:

“Reinventing the Future”

by Datuk Ir. Dr. Tengku Mohd Azzman Shariffadeen

The 9th Prof. Chin Lecture:

“Water Resources: The Challenge of the New Century”

by C.R. Head

The 10th Prof. Chin Lecture:

“Concrete: From 3,000 PSI to 80 MPa and Beyond”

by Ir. Dr. Tam Chat Tim

The 11th Prof. Chin Lecture:

“China Yangtze Three Gorges Project Under Construction”

by Prof. Lu Youmei

The 12th Prof. Chin Lecture:

“Modified Soil Mechanics from Practice to Theory”

by Prof. A.S. Balasubramaniam

The 13th Prof. Chin Lecture:

“Risk Management in Design and Construction”

by Dr. Michael J. Mawdesley

The 14th Prof. Chin Lecture:

“Kuala Lumpur” Re-engineering a Flooded Confluence”

by Datuk Ir. Haji Keizrul Abdullah

The 15th Prof. Chin Lecture:

“Serviceability and Strength of Normal and High Strength Concrete Structures”

by Prof. Yew-Chaye Loo

The 16th Prof. Chin Lecture:

“The Enigma of Space and the Rationale for Space Exploration”

by Associate Professor K. Arichandran

The 17th Prof. Chin Lecture:

“Design, Assessment and Strengthening of Bridges using Advanced Modelling Techniques and Modern Code of Practice”

by Mr. Chris Hendy

The 18th Prof. Chin Lecture:

“The Search for NEWater: The Singapore Water Story”

by Mr. Lee Ek Tieng

The 19th Prof. Chin Lecture:

“Geotechnical Failures/Issues, Dispute Resolution and Mitigation”

by Ir. Dr. Ooi Teik Aun

The 20th Prof. Chin Lecture:

“Dam Engineering: State of the Art and Practice, Observed Behaviour and Future Challenges”

by Prof. Dr. In. Pedro Seco e Pinto

The 21st Prof. Chin Lecture:

“Engineering & Entrepreneurship: Is it an Oxymoron?”

by Tan Sri Dr. Francis Yeoh

The 22nd Prof. Chin Lecture:

“E-Learning Application to Continuing Education of Engineers”

by Prof. Cham Tao Soon

The 23rd Prof. Chin Lecture:

“Exploring Viability of Dams is Key to Malaysian Water Resources Development of the Future”

by Dato’ Ir. Syed Muhammad Shahabudin

The 24th Prof. Chin Lecture:

“Seeking the Code of the Ground”

by Dr. Brian Simpson

Re-run of 47th Terzaghi Lecture in Taiwan

7th – 21st March 2015

An international well-known geotechnical scholar, the fellow of National Academy of Engineering and professor in Department of Civil Engineering of University of Texas Austin, **Dr Kenneth Stokoe** - invited by Chinese Taipei Geotechnical Society (CTGS), to visit Taiwan from 7th to 21st of March 2015 for almost 2 weeks. His visit is mainly funded by the Ministry of Science and Technology, Executive Yuan, Taiwan and other sponsors include Department of Construction Engineering of National Taiwan University of Science and Technology (NTUST), Department of Civil Engineering of National Cheng-Kung University (NCKU), Department of Civil Engineering of National Chiao-Tung University (NCTU), CECI Engineering Consulting Engineering Inc. (CECI), National Centre of Research on Earthquake Engineering (NCREE), CTGS, Sustainable development committee of CICHE and Kaohsiung City Professional Civil Engineer Association.



Group photo after the delivery of Terzaghi Lecture on 10th of March in NTUST

Dr Stokoe delivered his five presentations based on three topics in Taipei City, Hsinchu County and Tainan City respectively. Dates and places of his touring presentations were at 10th and 11th of March in NTUST (Taipei City), 13th of March in NCKU (Tainan City), 18th of March in NCTU (Hsinchu County) and 19th of March in CECI back in Taipei City again.

Among his presentations in Taiwan, the one and only presentation that Dr Stokoe delivered on the 10th of March to his Taiwanese fans had the same content in which that he presented back in the 47th Terzaghi of Year 2011; the re-run seminar on the 10th of March in Taipei brought to his fans more of his fruitful researching results.



Photo taken during the presentation by Professor Stokoe on 13th of March in NCKU

Topics of the speeches which Dr Stokoe provided in Taiwan are (together with the link of presentation file)

1. Seismic Measurements and Geotechnical Engineering

http://www.tgs.org.tw/download/data/2015/03/47th_Terzaghi_Prof._Stokoe_0310.pdf

2. The Increasing Role of Seismic Measurements in Geotechnical Engineering

http://www.tgs.org.tw/download/data/2015/03/Prof._Stokoe_presentation_0318.pdf

3. Effectiveness of Inhibiting Liquefaction Triggering by Shallow Ground Improvement Methods: Field Shaking Trials with T-Rex in Christchurch, New Zealand

http://www.tgs.org.tw/download/data/2015/03/Prof._Stokoe_presentation_0313.pdf



Group photo taken after delivery of speech in CECI together with Professor Li, John, Chairman of CECI and Dr Lee, S. M. (session chair) on 19th of March

Not only that Dr Stokoe visited three universities during this two-week stay in Taiwan which includes NTUST, NTCU and NCKU but as well as NCREE and CECI. Dr Stokoe's speeches have broadened the horizons in the geotechnical engineering field; he introduces the new knowledge of large-scaled geotechnical earthquake in-situ tests, which led to the enhancements in evaluating soil dynamic properties, hence, assist in promoting skills and technologies of the engineering field. Through the collaborative meetings of the industry-academia, government and researches, this helps to exchange best practices and benefits to current researches relating to large-scaled geotechnical earthquake engineering in-situ tests and liquefactions in Taiwan.



Professor Chen, C. S. discussing the test and related facilities of NCREE to Professor Stokoe during the visit on 20th of March

► [Click here to view more details and photos from Dr Stokoe's visit.](#)

Prepared by: **Ni, S. H. Tony, Hsiung, B. C, Benson, Yang, Kuo- Hsin**

Major Project

Innovative Foundation Design for Happy Valley Underground Stormwater Storage Scheme, Hong Kong

G.S.K. Chou¹, K.W.N. Ko²

¹General Manager - Technical, Chun Wo Construction & Engineering Co. Ltd, Hong Kong

²General Manager - Special Projects, Chun Wo Construction & Engineering Co. Ltd, Hong Kong

ABSTRACT

This paper presents an innovative design approach for the foundations of an underground stormwater storage tank situated in Happy Valley, Hong Kong. The innovative design, first initiated by the Contactor, i.e. Chun Wo Construction & Engineering Co Ltd, mitigated some 533 rock socketted H-piles in the Conforming Design. The solution not only abated the adverse impacts of the piling works on the neighbourhood, but also avoided the emission of approximately 8,043 tonne of CO₂-e into the atmosphere which has a similar effect of planting 205,938 trees. The first phase of the project has been completed in April 2015.

1. Introduction

Flooding incidents as a result of major rainstorms are not unusual in Hong Kong. In June 2008, Hong Kong had its heaviest rainfall in 124 years. A lot of areas, including Tung Chung, Happy Valley and Wan Chai districts were flooded severely (Figure 1). To alleviate the problem in Happy Valley and Wan Chai area, a long-term solution has been proposed by the Drainage Services Department (DSD), the Government of the Hong Kong Special Administrative Region (HKSAR) which entails construction of an underground stormwater storage tank (USST), storing temporarily part of the stormwater collected from the upstream catchment for attenuating the peak flow in the downstream drainage system after heavy rainstorms. This scheme, known as Happy Valley Underground Stormwater Storage Scheme (HVUSSS), reduces substantially the risk of flooding to the low-lying areas of Happy Valley and Wan Chai districts. Chun Wo Construction & Engineering Company Limited (Chun Wo) has been commissioned by the DSD to undertake the construction works under an Engineering & Construction Contract (Contract No. DC/2012/03). Following the commencement of works, Chun Wo proposed an innovative Cost Savings Design (CSD) for the foundation of the USST in which 533 numbers of pre-bored H-piles up to 55m in length are mitigated.



Figure 1. Flooding incidents in Hong Kong: (a) North Lantau Expressway, near Tung Chung, (b) Happy Valley Recreation Ground, (c) Wan Chai District

► [Click here to download complete paper.](#)

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
Southeast Asian Geotechnical Society	South East Asia
Korean Geotechnical Society	South Korea
Sri Lankan Geotechnical Society	Sri Lanka
Order of Syrian Engineers and Architects	Syria
Tajikistan Geotechnical Society	Tajikistan
Thai Geotechnical Society	Thailand
Uzbekistan Geotechnical Society	Uzbekistan
Vietnam Society for Soil Mechanics and Geotechnical Engineering	Vietnam

Latest ISSMGE News

<http://www.issmge.org/en/resources/issmge-bulletin/766-vol-9-issue-3-june-2015>

Report from past ISSMGE president

Federation of International Geo-Engineering Societies

FedIGS

**FEDERATION OF INTERNATIONAL
GEO-ENGINEERING SOCIETIES**



A report by

Jean-Louis Briaud

President of FedIGS
Distinguished Professor,
Texas A&M University

13 May 2015



WHAT IS FedIGS?

FedIGS is an umbrella organization linking international professional societies in the field of “Geo-Engineering” and serving to facilitate cooperation among them

The current members are

ISSMGE International Society for Soil Mechanics and Geotechnical Engineering

ISRM International Society for Rock Mechanics

IAEG International Association for Engineering Geology and the Environment

IGS International Geosynthetics Society

Members retain their complete autonomy and there are no dues.

WHAT ARE THE GOALS OF FedIGS?

The goals of FedIGS are:

1. Facilitate cooperation within the geo-engineering profession
2. Coordinate activities in areas of overlapping interest
3. Raise the public awareness and the profile of the geo-engineering profession
4. To remain a lightly structured, inexpensive, and unobtrusive organization

PRESIDENTS OF FedIGS

The presidents of FedIGS have been:

William Van Impe (Belgium) 2007-2010

Neilen van der Merwe (South Africa) 2010-2013

Jean-Louis Briaud (USA) 2014-2017

FedIGS BOARD MEMBERS in 2015

ISSMGE

1. President: **Roger Frank**
2. Past President: **Jean-Louis Briaud**
3. Secretary General: **Neil Taylor**

ISRM

1. President: **Eda Quadros**
2. Past President: **Xia Ting Feng**
3. Secretary General: **Luis Lamas**

IAEG

1. President: **Scott Burns**
2. Past President: **Carlos Delgado**
3. Secretary General: **Faquan Wu**

IGS

1. President: **Russell Jones**
2. Past President: **Jorge Zornberg**
3. Secretary General: **Elizabeth Peggs**

► **Click here to read more about FedIGS:**

- **HISTORY OF FedIGS** (Evolution of FedIGS since the first phase in 1936-2000, second phase in 2000-2009, from 2010 up to the present)
- **Vision as President** (Underlying Principles and some ideas)

EVENT DIARY

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

2015

7ème Journées Africaines de Géotechnique

Date: Tuesday 30 June 2015 - Friday 03 July 2015
Location: Hôtel President, YAMOUSSOUKRO, Cote D'Ivoire (Ivory Coast)
Language: FRENCH
Organizer: CTGA
Contact person: Dr ETIENNE MARCELIN KANA
Address: 5, rue Monseigneur Graffin, B.P. 20369, Yaoundé, Cameroon
Phone: +237 6 99 50 05 10 • E-mail: emk2cm@yahoo.fr

International Symposium on Geohazards and Geomechanics

Date: Thursday 10 Sept. 2015 - Friday 11 Sept. 2015
Location: University of Warwick campus, Coventry, United Kingdom
Language: English
Address: University of Warwick, Library Road, Coventry, CV4 7AL, Coventry, United Kingdom
E-mail: C.Voulgari@warwick.ac.uk
Website: <http://www2.warwick.ac.uk/fac/sci/eng/research/civil/geo/conference/>

European Young Geotechnical Engineers Conference

Date: Friday 11 Sept. 2015 - Saturday 12 Sept. 2015
Location: Durham University, Durham, United Kingdom
Language: English
Organizer: BGA
Contact person: Dr Ashraf Osman
Address: School of Engineering and Computing Sciences, Durham University, DH1 4QU, Durham, United Kingdom
Phone: +44 191 3342425
E-mail: ashraf.osman@durham.ac.uk

XVI European Conference on Soil Mechanics and Geotechnical Engineering

Date: Sunday 13 Sept. 2015 - Thursday 17 Sept. 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, RG1 8AH, Reading, UK
Phone: +44 1189566066
Fax: +44 1189576066
E-mail: derek_smith@coffey.com
Website: <http://www.xvi-ecsmge-2015.org.uk/>

GEO-EXPO 2015 Scientific and Expert Conference in Zenica, Bosnia and Herzegovina

Date: Friday 18 Sept. 2015 - Saturday 19 Sept. 2015
Location: Faculty of Polytechnical Engineering, University of Zenica, Zenica, Bosnia and Herzegovina
Language: Bosnian, Croatian, Serbian, English
Organizer: Geotechnical Society of Bosnia and Herzegovina
Contact person: Prof. Sabid Zekan
Address: Univerzitetska 2, 75000, Tuzla, Bosnia and Herzegovina
Phone: +387 61 56 22 77 • Fax: +387 35 32 05 70
E-mail: geotehnika@geotehnika.ba
Website: <http://www.geotehnika.ba>

Workshop on Volcanic Rocks & Soils

Date: Thursday 24 Sept. 2015 - Friday 25 Sept. 2015

Location: Isle of Ischia, Italy

Language: English

Organizer: Associazione Geotecnica Italiana (AGI)

Contact person: Ms. Susanna Antonielli

Address: Viale dell'Università 11, 00185, Roma, Italy

Phone: +39 06 4465569 - +39 06 44704349

Fax: +39 06 44361035

E-mail: agi@associazionegeotecnica.it

Website: <http://www.wvrs-ischia2015.it/>

6th International Conference on Earthquake Geotechnical Engineering

Date: Sunday 01 Nov. 2015 - Wednesday 04 Nov. 2015

Location: Christchurch, New Zealand

Contact person: The Conference Company

Address: PO Box 3727, Christchurch, New Zealand

Phone: +64 3 365 2217

Fax: +64 3 365 2247

E-mail: 6icege@tcc.co.nz

Website: <http://www.6icege.com>

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

Date: Monday 09 Nov. 2015 - Friday 13 Nov. 2015

Location: Fukuoka International Congress Center, Fukuoka, Kyushu, Japan

Language: English

Organizer: The Japanese Geotechnical Society

Contact person: Toshifumi Mukunoki

Address: 2-39-1 Kurokami, Chuou-ku, Kumamoto, JAPAN, 860-8555, Kumamoto, Japan

Phone: +81-96-342-3535

Fax: +81-96-342-3535

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

Website: <http://www.jgskyushu.net/uploads/15ARC/>

XV Pan American Conference on Soil Mechanics and Geotechnical Engineering

Date: Sunday 15 Nov. 2015 - Wednesday 18 Nov. 2015

Location: Hilton Hotel, Buenos Aires, Argentina

Language: Spanish - Portuguese - English (simultaneous translation)

Organizer: Argentinean Society for Soil Mechanics and Geotechnical Engineering

Contact person: Dr. Alejo Oscar Sfriso

Address: Rivadavia 926 Suite 901, C1002AAU, Buenos Aires, Buenos Aires, Argentina

Phone: +541143425447

Fax: +541143423160

E-mail: presidente@saig.org.ar

Website: www.panam2015.com.ar

Geo-Environment and Construction European Conference

Date: Thursday 26 Nov. 2015 - Saturday 28 Nov. 2015

Location: Polis University, Tirana, Albania

Language: Albanian, English

Organizer: Polis University, Albanian Geotechnical Society and Co-PLAN

Contact person: Msc. Eng. Erion Bukaçi

Address: Polytechnic University of Tirana, Faculty of Civil Engineering, 1001, Tirana, Albania

E-mail: erion.bukaci@gmail.com, Correspondence and information, MSc. Eng. Erdi Myftaraga (erdi.myftaraga@hotmail.com), Prof. Dr. Luljeta Bozo (lulibozo@gmail.com)

International Conference on Soft Ground Engineering ICSGE2015

Date: Thursday 03 Dec. 2015 - Friday 04 Dec. 2015

Location: Singapore, Singapore

Language: English

Organizer: Geotechnical Society of Singapore

Contact person: Dr Kam Weng Leong

Address: OPE3, Faculty of Engineering, NUS, 117578, Singapore

E-mail: ICSGE2015@nus.edu.sg

Website: <http://www.geoss.sg/icsge2015>

The 1st International Conference on Geo-Energy and Geo-Environment (GeGe2015)

Date: 4th and 5th December 2015 (Friday & Saturday)

Location: The Hong Kong University of Science and Technology (HKUST), Hong Kong

Language: English

Organizers: HKUST, Chongqing University, Hohai University and Zhejiang University in mainland China, and EPFL in Switzerland

Contact person: Ms Shirley Tse

Address: The Geotechnical Centrifuge Facility, HKUST, Clear Water Bay, Kowloon, Hong Kong

Phone: +852-2358-0216

Fax: +852-2243-0040

E-mail: gege2015@ust.hk

Website: <http://gege2015.ust.hk>

GIFT - Geotechnics for Infrastructure and Foundation Techniques

Date: Thursday 17 December 2015 - Saturday 19 December 2015

Location: Govt. College of Engineering (Established 1853 AD), PUNE, MAHARASHTRA, India

Language: English

Organizer: Indian Geotechnical Society, Pune Chapter

Contact person: Prof. Yashwant Apparao Kolekar

Address: Associate Professor, Geotechnical Engineering Division, Dept. of Civil Engineering, Govt. College of Engineering, Wellsley Road, Shivajinagar, 411005, PUNE, MAHARASHTRA, INDIA

Phone: +91-20-25507070 / +91-9420963672 • Fax: +91-20-25507299

E-mail: igc2015pune@gmail.com • Website: <http://www.igc2015pune.in/GUI/index.aspx>

2016

Underground Construction Prague 2016

Date: Monday 23 May 2016 - Wednesday 25 May 2016

Location: Clarion Congress Hotel Prague Prague, Czech Republic

Language: English

Organizer: Czech Tunnelling Association

Contact person: SATRA, spol. s r. o.

Address: Sokolská 32, 120 00, Prague 2, Czech Republic

Phone: +420 296 337 181 • Fax: +420 296 337 189

E-mail: ps2016@satra.cz

Website: <http://www.ucprague.com>

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>

International Mini Symposium Chubu (IMS-Chubu)

Date: Thursday 26 May 2016 - Saturday 28 May 2016

Location: Disaster Mitigation Research Building, Nagoya University, Nagoya, Aichi, Japan

Language: English

Organizer: The Japanese Geotechnical Society

Contact person: International Affairs Department, Japanese Geotechnical Society

Address: 4-38-2 Sengoku, Bunkyo-ku, 112-0011, Tokyo, Japan

Phone: +81-3-3946-8671

Fax: +81-3-3946-8678

E-mail: kokusai@jiban.or.jp

Website: https://www.jiban.or.jp/index.php?option=com_content&view=article&id=1737:2016052628&catid=16:2008-09-10-05-02-09&Itemid

SEAGC2016

Date: Tuesday 31 May 2016 - Friday 03 June 2016

Location: Dorsett Grand Subang, Subang Jaya, Selangor, Malaysia

Language: English

Organizer: Malaysian Geotechnical Society and Institution of Engineers, Malaysia

Contact person: SEAGC2016 Secretariat

Address: c/o IEM Training Centre Sdn Bhd, No.33-1A (1st Floor) Jalan 52/18, PO Box 224 (Jalan Sultan), 46720, Petaling Jaya, Selangor, Malaysia

Phone: +(603) 7958 6851

Fax: +(603) 7958 2851

E-mail: seagc2016@gmail.com / choy.iemtc@gmail.com

Website: www.mygeosociety.org/SEAGC2016

12th International Symposium on Landslides

Date: Sunday 12 June 2016 - Sunday 19 June 2016

Location: Naples, Italy

Language: English

Contact person: Italian Geotechnical Association (AGI)

Address: Viale dell'Università, 11 - 00185, Roma, Italy

Phone: +39 064465569 - 0644704349

E-mail: agi@associazionegeotecnica.it

Website: <http://www.isl2016.it/>

GeoChina 2016

Date: Monday 25 July 2016 - Wednesday 27 July 2016

Location: Shandong, China

Language: English

Organizer: Shandong University in Cooperation with Shandong Department of Transportation and University of Oklahoma

Contact person: Antony Warden

Address: Shanghai, China

Phone: +86-021-54721773

E-mail: geochina.sec@gmail.com

Website: <http://geochina2016.geoconf.org/>

3rd ICTG International Conference on Transportation Geotechnics

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

13 Baltic States Geotechnical Conference

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

2017

ICSMGE 2017 - 19th International Conference on Soil Mechanics and Geotechnical Engineering, Seoul

Date: Sunday 17 September 2017 - Thursday 21 September 2017
Location: Coex Convention Center, Seoul, Korea
Language: English and French
Organizer: Organising Committee of ICSMGE 2017
Contact person: Ms. Soi LEE
Address: 4F, SUNGJI Building, 192, Bangbae-ro, Seocho-gu, 137-835, Seoul, Republic of Korea
Phone: +82-2-6288-6347 • Fax: +82-2-6288-6399
E-mail: secretariat@icsmge2017.org • Website: <http://www.icsmge2017.org>

NON-ISSMGE SPONSORED EVENTS: 2015

International Conference in Geotechnical Engineering - ICGE-Colombo 2015

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

The 2nd International Symposium on Transportation Soil Engineering in Cold Regions (TranSoilCold2015)

Date: Thursday 24 Sept. 2015 - Saturday 26 Sept. 2015
Location: Siberian State University of Railway Engineering, Novosibirsk, Russia
Language: English, Russian
Organizer: Universities of Russia, China, USA
Contact person: Yury Moryachkov
Address: Novosibirsk, Russia
E-mail: transoilcold@inbox.ru
Website: <http://transoilcold2015.stu.ru/>

5th International Symposium on Geotechnical Safety and Risk (ISGSR 2015)

Date: Tuesday 13 October 2015 - Friday 16 October 2015
Location: WTC, Rotterdam, The Netherlands
Language: English
Organizer: KIVI, GEOSnet, Geo Impuls
Contact person: Maarten Profitlich
Address: Zekeringstraat 41A, 1014BV, Amsterdam, The Netherlands
Phone: +31206510800 • E-mail: nssmge@kivi.nl • Website: www.isgsr2015.org

For further details, please refer to the website of the specific conference.

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.



Southeast Asian Geotechnical Society



ISSMGE & ARC

3 The ability to attend, participate, and avail of state-of-the-art lectures and papers in the local, regional, and international geotechnical conferences at discounted registration fees.

4 The chance to network with other geotechnical engineers, academics, and practitioners around the world as SEAGS member automatically becomes member of ISSMGE.

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

EDITORIAL PANEL

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Prof. D.T. Bergado

Asian Institute of Technology
Bangkok Thailand
Email: dbergado@gmail.com

Dr. R.P. Brenner

Weinfelden
Switzerland
Email: brenner.gde@freesurf.ch

Dr. Rifat Bulut

Oklahoma State University
U.S.A.
Email: rifat.bulut@okstate.edu

Prof. D.W. Chang

Tamkang University
Tamsui, Taiwan
Email: dwchang@mail.tku.edu.tw

Prof. Jian Chu

Nanyang Technological University
Singapore
Email: cjchu@ntu.edu.sg

Prof. Fuping Gao

Institute of Mechanics
Chinese Academy of Sciences
Beijing, China
Email: fpgao@imech.ac.cn

Prof. Chandan Ghosh

National Institute of Disaster Management
Ministry of Home Affairs, Govt. of India
India
Email: cghosh24@gmail.com

Dr. Wei-Dong Guo

University of Wollongong
Wollongong
Australia
Email: wduo@uow.edu.au

Prof. A (Malek) Bouazza

Monash University
Melbourne, Australia
Email: malek.bouazza@gmail.com

Dr. Tirawat Boonyatee

Chulalongkorn University
Thailand
Email: tirawat.b@chula.ac.th

Prof. Jin-Chun Chai

Saga University
Saga, Japan
Email: chai@cc.saga-u.ac.jp

Dr. Thanakorn Chompoorat

University of Phayao
Thailand
Email: cthanakorn@gmail.com

Prof. Roger Frank

Université Paris-Est, École des Ponts ParisTech
Laboratoire Navier-geotechnical team (CERMES)
Marne-la-Vallée cedex 2 France
Email: cthanakorn@gmail.com

Prof. Christophe Gaudin

University of Western Australia
Perth
Australia
Email: christophe.gaudin@uwa.edu.au

Dr. Ivan Gratchev

Griffith University Gold Coast Campus
Gold Coast Queensland
Australia
Email: i.gratchev@griffith.edu.au

Prof. Jürgen Grabe

Hamburg University of Technology
Germany
Email: grabe@tuhh.de

Prof. Marte Gutierrez

James R. Paden Distinguished Professor
Colorado School of Mines
U.S.A.
E-mail: mgutierr@mines.edu

Dr. Abuel-Naga Hossam

The University of Manchester
Manchester, U.K.
Email: d.jeng@griffith.edu.au

Prof. Baoshan Huang

University of Tennessee
U.S.A.
Email: bhuang@utk.edu

Prof. C. H. Juang

Clemson University
U.S.A.
Email: hsein@clemson.edu

Prof. Tatsuya Ishikawa

Hokkaido University
Japan
Email: t-ishika@eng.hokudai.ac.jp

Dr. Eng Choon Leong

Nanyang Technological University
Singapore
Email: CECLEONG@ntu.edu.sg

Dr. Suched Likitlersuang

Chulalongkorn University
Thailand
Email: fceslk@eng.chula.ac.th

Prof. San-Shyan Lin

Taiwan Ocean University
Keelung Taiwan
Email: sslin46@gmail.com

Mr. Tom Lunne

Norwegian Geotechnical Institute
Oslo, Norway
Email: Tom.Lunne@ngi.no

Prof. Jie Han

The University of Kansas
Lawrence, Kansas
U.S.A.
Email: jiehan@ku.edu

Prof. Suksun Horpibulsuk

Suranaree University of Technology
Thailand
Email: suksun@sut.ac.th

Prof. Dong-Sheng Jeng

Griffith University Gold Coast Campus
Gold Coast, Queensland
Australia
Email: d.jeng@griffith.edu.au

Dr. Apiniti Jotisankasa

Department of Civil Engineering
Kasetsart University
Bangkok Thailand
Email: fengatj@ku.ac.th

Prof. B. Indraratna

University of Wollongong
Australia
Email: Indra@uow.edu.au

Prof. Chun-Fai Leung

National University of Singapore
Singapore
Email: ceelcf@nus.edu.sg

Prof. Robert Liang

Akron University
U.S.A.
Email: rliang@uakron.edu

Prof. Meei-Ling Lin

National Taiwan University
Taipei, Taiwan
Email: linml@ntu.edu.tw

Prof. Tatsunori Matsumoto

Kanazawa University
Kakuma-machi, Kanazawa
Japan
Email: Tatsumoto@se.kanazawa-u.ac.jp

Prof. J. N. Meegoda

New Jersey Institute of Technology
U.S.A.
Email: Meegoda@njit.edu

Dr. Farrokh Nadim

Technical Director
Norwegian Geotechnical Institute (NGI)
Oslo, Norway
Email: Farrokh.Nadim@ngi.no

Dr. Kam Ng

Dept. Of Civil and Architectural Eng.
University of Wyoming
U.S.A.
Email: kng1@uwyo.edu

Prof. C.Y. Ou

National Taiwan University of Science and
Technology
Taipei, Taiwan
Email: ou@mail.ntust.edu.tw

Dr. Erwin Oh

Griffith University Gold Coast Campus
Gold Coast
Queensland, Australia
Email: Y.Oh@griffith.edu.au

Dr. N. Phienwej

Asian Institute of Technology
Bangkok
Thailand
Email: noppadol54@gmail.com

Prof. Paulus P. Rahardjo

Parahyangan Catholic University
Indonesia
Email: rahardjo.paulus@gmail.com

Dr. Nadarajah Ravichandran

Clemson University
U.S.A.
Email: nravic@clemson.edu

Prof. Cholachat Rujkiatkamjorn

University of Wollongong Wollongong
Australia
Email: cholacha@uow.edu.au

Prof. Akira Murakami

Kyoto University
Japan
Email: akira_m@cc.okayama-u.ac.jp

Prof. Charles W. W. Ng

The Hong Kong University of Science
and Technology
Kowloon Hong Kong
Email: ceewwng@ust.hk

Dr. T.A. Ooi

The Institution of Engineers, Malaysia
Kuala Lumpur, Malaysia
Email: drtaooi@gmail.com

Prof. Fusao Oka

Kyoto University
Japan
Email: foka@nakisuna.kuciv.kyoto-u.ac.jp

Prof. Miguel A. Pando

University of North Carolina at Charlotte
U.S.A.
Email: mpando@uncc.edu

Prof. Anand J. Puppala

The University of Texas at Arlington
Texas
U.S.A.
Email: anand@uta.edu

Prof. Harianto Rahardjo

Nanyang Technology University
Singapore
Email: CHRAHARDJO@ntu.edu.sg

Prof. M. Shamim Rahman

North Carolina State University
U.S.A.
Email: rahman@ncsu.edu

Prof. Helmut F. Schweiger

Graz University of Technology
Graz Austria
Email: helmet.schweiger@tugraz.at

Dr. Shinji Sassa

Port and Airport Research Institute
Nagase Yokosuka Japan
Email: sassa@ipc.pari.go.jp

Prof. Shui-Long Shen

Shanghai Jiao Tong University
Shanghai, China
Email: slshen@sjtu.edu.cn

Dr. Suttisak Soralump

Kasetsart University
Thailand
Email: soralump_s@yahoo.com

Prof. Suchatvee Suwansawat

King Mongkut's Institute of Technology
Ladkrabang (KMITL), Thailand
Email: kssuchat@kmitl.ac.th

Prof. Erol Tutumluer

University of Illinois – Urbana Champaign
U.S.A.
Email: tutumlue@illinois.edu

Dr. Stanley J. Vitton

Michigan Technological University
U.S.A
Email: vitton@mtu.edu

Prof. Li-zhong Wang

Zhejiang University
China
Email: wanglz@zju.edu.cn

Prof. Zhen-Yu Yin

Shanghai Jiao Tong University
China
Email: zhenyu.yin@sjtu.edu.cn

Dr. Tom Schanz

Ruhr Universität Bochum
Germany
Email: tom.schanz@rub.de

Prof. D. N. Singh

Indian Institute of Technology Bombay
Powai, Mumbai, India
Email: dnsiitb@gmail.com

Prof. Mitsutaka Sugimoto

Nagaoka University of Technology
Nagaoka Japan
Email: sugimo@vos.nagaokaut.ac.jp

Prof. Ikuo Towhata

University of Tokyo
Tokyo, Japan
Email: towhata.ikuo.ikuo@gmail.com

Prof. B.V.S. Viswanadham

Indian Institute of Technology Bombay
Powai, Maharashtra, India
Email: viswam@civil.iitb.ac.in

Dr. Dariusz Wanatowski

The University of Nottingham
Ningbo, China
Email: Dariusz.Wanatowski@nottingham.ac.uk

Dr. Albert T. Yeung

University of Hong Kong (HKU)
Hong Kong
Email: albert-yeung@graduate.hku.hk

Prof. Jian-Hua Yin

Hong Kong Polytechnic University
Hong Kong
Email: jian-hua.yin@polyu.edu.hk

Editor-in-Chief & Guest Editors: 1970-2015

Website link ► <http://seags.ait.asia/submission-services/guest-editors/>

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1. Year 2011

1.1 March: Ground Improvement

- Prof. Jie Han

1.2 June: Piled & Piled Raft Foundations

- Prof. Tatsunori Matsumoto
- Prof. Der Wen Chang

1.3 September: Deep Excavations & Tunnels

- Prof. Chang Yu Ou

1.4 December: Soil Behaviour

- Dr. Dariusz Wanatowski

2. Year 2012

2.1 March: Unsaturated Soil Behaviour

- Prof. Charles W W Ng
- Dr. Apiniti Jotisankasa

2.2 June: Geotechnical Earthquake Engineering

- Prof. Ikuo Towhata
- Prof. Der Wen Chang
- Dr. Ivan Gratchev

2.3 September: Environmental Geotechnics and Sanitary Landfills

- Prof. Malek Bouazza

2.4 December: In-situ Testing

- Tom Lunne
- Prof. Don de Groot

3. Year 2013

3.1 March: Contributed Articles

- Prof. Der Wen Chang
- Dr. Dariusz Wanatowski

3.2 June: Modelling Soil Behaviour

- Prof. Akira Murakami
- Dr. Dariusz Wanatowski

3.3 September: Geotechnical Analyses

- Prof. Fusao Oka
- Prof. Helmut F. Schweiger

3.4 December: Ground Improvement (Commemorative issue on Prof. D. T. Bergado's retirement from AIT)

- Prof. Jin-Jun Chai
- Prof. Shui-Long Shen

4. Year 2014

4.1 March: Geotechnics for Advancing Transport Infrastructure

- Prof. Buddhima Indraratna
- Prof. Chalachat Rujikiatkamjorn

4.2 June: Special Issue on Deep Foundation

- Prof. Tatsunori Matsumoto
- Prof. Jürgen Grabe
- Prof. Der Wen Chang

4.3 September: Special Issue on Centrifuge Modelling of Geotechnical Infrastructure

- Dr. B.V.S. Viswanadham
- Dr. Christophe Gaudin
- Dr. Tom Schanz

4.4 December: Special Issue on Offshore and Coastal Geotechnics

- Dr. Shinji Sassa
- Prof. Poul V. Lade
- Dr. Li-zhong Wang
- Prof. Y.K. Chow
- Prof. Dong Sheng Jeng
- Prof. Christophe Gaudin
- Prof. Fuping Gao

5. Year 2015

5.1 March: Special Country issue of Thailand - Dr. Surachar Sambhandhara Memorial Issue

- Dr. Suched Likitlersuang
- Prof. Suksun Horpibulsuk
- Dr. Suttisak Soralump
- Dr. Tirawat Boonyatee
- Prof. Suchatvee Suwansawat
- Dr. Thanakorn Chompoorat

5.2 June: Special Issue on Pile Foundations

- Prof. San-Shyan Lin
- Dr. Charng Hsein Juang
- Dr. Robert Liang

5.3 September: Soil Behaviour and Modelling

- Prof. Zhen-Yu Yin
- Prof. Jian-Hua Yin

CONFERENCES

19TH SOUTHEAST ASIAN GEOTECHNICAL CONFERENCE & 2ND AGSSEA CONFERENCE

19SEAGC-2AGSSEA

Deep Excavation and Ground Improvement

31 May - 3 June 2016

Dorsett Grand Subang, Subang Jaya, Malaysia

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

INTRODUCTION

The 19th Southeast Asian Geotechnical Conference and 2nd Association of Geotechnical Societies in Southeast Asia Conference (19SEAGC-2AGSSEAC) will be held in Kuala Lumpur, Malaysia on 31 May – 3 June 2016. A pre-conference short course will be held on 30 May 2016 and the Southeast Asia Young Geotechnical Engineers' Conference on 31 May 2016. The Southeast Asian Geotechnical Society was founded in 1967 at AIT Bangkok by Dr Za-Chieh Moh. In 2007 the Association of Geotechnical Societies in Southeast Asia was founded also by Dr Za-Chieh Moh. At the 17SEAGC held in Taipei in 2010, it was

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decided that the 18SEAGC-1AGSSEA Conference will be held in Singapore in 2013. The Singapore Conference was a great success with more than 350 participants. This 19SEAGC-2AGSSEAC to be held in Kuala Lumpur, Malaysia is also expected to be well supported and successful. The Conference will have an Opening Keynote Address, Chin Fung Kee Lecture, Za-Chieh Moh Lecture, S L Lee Lecture, Keynote Lectures, Special Lectures, and Special Session Lectures to be delivered by distinguished geotechnical experts and eminent academicians. Contributed papers from member countries and abroad will also be presented.

SUBMISSION OF ABSTRACT

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

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

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

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

IMPORTANT DATES:

Abstract submission ▶ 31 March 2015

Notification of acceptance of abstract ▶ 31 May 2015

Deadline for submission of full paper ▶ 31 October 2015

Notification of acceptance of full paper ▶ 31 January 2016

The Conference language shall be English.

ORGANIZING COMMITTEE

Advisor: Ir. Dr. Wen Hui Ting

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

CHIN FUNG KEE LECTURE

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

ZA-CHIEH MOH LECTURE

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

S L LEE LECTURE

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

CONTACT DETAILS:

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No. 33-1A (1st floor), Jalan 52/18,

P.O. Box 224 (Jalan Sultan)

46720 Petaling Jaya, Selangor Darul Ehsan,
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E-mail: seagc2016@gmail.com

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**YOUNG GEOTECHNICAL ENGINEERS
CONFERENCE (YGEC) 2016
19SEAGC-2AGSSEA**

**Contributions of Young Geotechnical Engineers to
Nation Building**

30 MAY 2016

PETALING JAYA, SELANGOR, MALAYSIA

In conjunction with the 19th Southeast Asian Geotechnical Conference & 2nd Association of Geotechnical Societies in Southeast Asia Conference (19SEAGC-2AGSSEAC), which will be held in Petaling Jaya, Selangor, Malaysia from 31 May to 3 June 2016, a parallel Young Geotechnical Engineers Conference (YGEC) will be held on 30 May 2016. YGEC participants are encouraged to attend the first day program of the main conference on 31 May 2016, which includes the Opening Keynote Address, Chin Fung Kee Lecture and Special Lectures to be delivered by distinguished geotechnical experts and eminent academicians.

The theme of the YGEC is "Contributions of Young Geotechnical Engineers to Nation Building", which acknowledges the valuable contributions of young, enterprising and energetic Geotechnical Engineers working in increasingly challenging projects.

(*YGEC welcomes those aged 35 years & below by 30 May 2016)

CONFERENCE TOPICS:

- Numerical Modelling (FEM, DEM etc.)
- Soil Characterization & Properties
- Ground Improvement & Stabilization
- Shallow and Deep Foundations
- Slope Stability, Excavations
- Retaining Structures
- Geosynthetics & Geo-Products
- Field Testing & Monitoring
- Engineering Geology
- Rock Mechanics
- Design Analysis & Modelling
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SGI - Line



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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



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

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

ICE Virtual Library



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

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

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

Geotechnical software sites

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

► <http://www.usucger.org>

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

► <http://alert.epfl.ch>

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

► <http://www.geoengineer.org>

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

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Please direct all correspondence to:

Dr. Noppadol Phienwej

Hon. Secretary - General

Southeast Asian Geotechnical Society c/o Asian Institute of Technology

Room No. 211, AIT Library

P.O. Box: 4, Klong Luang, Pathumthani 12120, THAILAND

Tel: (66) 02 524 5864; (66) 02 524 5512

Fax: (66) 02 516 2126; (66) 02 524 5509

E-mail: seags@ait.ac.th

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

or

Ir. Kenny Yee

Hon. Secretary General

Association of Geotechnical Societies in Southeast Asia

c/o IEM Training Centre Sdn. Bhd.

No. 33-1A, Jalan SS 52/18

P.O. Box 224 (Jalan Sultan)

46200 Petaling Jaya, Selangor Darul Ehsan

MALAYSIA

Tel: (60) 03 7958 6851

Fax: (60) 03 79582851

E-mail: kenny.yeeks@gmail.com

Homepage: <http://www.agssea.org>

<http://www.iemtc.com>

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

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 Pathumthani 12120, Thailand
 Fax: (66) 02 516 2126 Tel: (66) 02 524 5864
 E-mail: seags@ait.ac.th

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

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

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