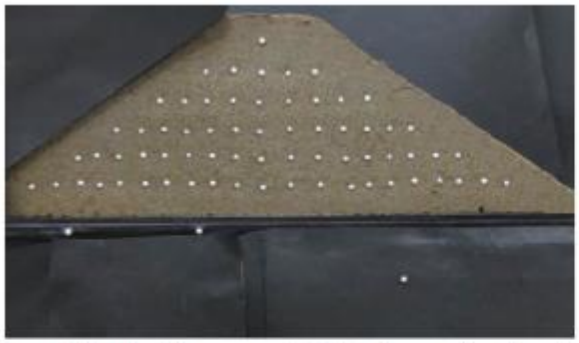
# SEAGS & AGSSEA Newsletter

## August 2013

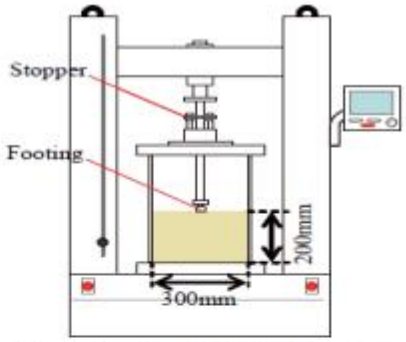
## SOUTHEAST ASIAN GEOTECHNICAL SOCIETY

## ASSOCIATION OF GEOTECHNICAL SOCIETIES IN SOUTHEAST ASIA

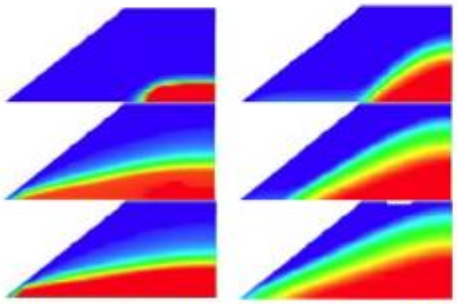
**AGSSEA**



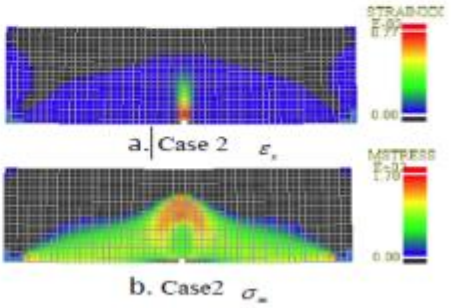
Large Model with guage points for shear and volumetric strain measurement (after Miyanaga, *et al*, 2013)




Schematic view of 3-D CT Imaging set-up (after Takano, *et al*, 2013)



Distribution of Saturation in numerical simulation Bending Stress of model test (after Xiong, *et al*, 2013)




Simulation in Cement Treated Soil (after Kaneda, *et al*, 2013)

**What's inside**



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

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# SEAGS EXECUTIVE COMMITTEE MEMBERS (2013 – 2016)

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| | | |
|---|---|---|
| 1 | Ir. Dr. Teik Aun Ooi | President |
| 2 | Dr. Chung-Tien Chin | Immediate Past President |
| 3 | Dr. Noppadol Phienwej | Hon. Secretary - General |
| 4 | Prof. Kwet Yew Yong | Past President |
| 5 | Dr. John C.C. Li | Past President |
| 6 | Dr. Surachat Sambhandaraksa | Past President |
| 7 | Dr. Za-Chieh Moh | Past President |
| 8 | Ir. Dr. Wen Hui Ting | Past President |

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|---|---|---|
| 1 | Ir. Dr. Teik Aun Ooi | President |
| 2 | Dr. Chung-Tien Chin | Immediate Past President |
| 3 | Dr. Noppadol Phienwej | Hon. Secretary - General |
| 4 | Dr. Za-Chieh Moh | Founding President |
| 5 | Prof. Kwet Yew Yong | Past President |
| 6 | Dr. John C.C. Li | Past President |
| 7 | Dr. Surachat Sambhandaraksa | Past President |
| 8 | Ir. Dr. Wen Hui Ting | Past President |
| 9 | Prof. A.S. Balasubramaniam | Past President |
| 10 | Dr. Chin Der Ou | Past President |
| 11 | Ir. Shaw Shong Liew | Malaysia |
| 12 | Prof. Hung-Jiun Liao | Taiwan |
| 13 | Mr. Viengvisa Nguen | Laos |
| 14 | Prof. Toe Laing | Myanmar |
| 15 | Dr. Soktay Lim | Cambodia |
| 16 | Prof. D.T. Bergado | Thailand |
| 17 | Ir. Kenny K. S. Yee | Malaysia (Co-opted Member) |
| 18 | Ir. Yew Weng Yee | Malaysia (Co-opted Member) |
| 19 | Dr. Jian Chu | Singapore (Co-opted Member) |
| 20 | Prof. Mei-Ling Lin | Taiwan (Co-opted Member) |
| 21 | Prof. Der-Wen Chang | Taiwan (Co-opted Member) |

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# AGSSEA COUNCIL FOR SESSION 2010 – 2013

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| | | |
|---|---|---|
| Chairman: | Prof. Kwet Yew Yong | |
| Hon. Secretary General: | Ir. Kenny K. S. Yee | |
| Hon. Treasurer: | Prof. Charles W.W. Ng | |
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| | Ir. Yew Weng Yee | Co-opted Member, SEAGS |
| | Prof. Nguyen Truong Tien | President, VSSMGE |
| | Mr. Mai Trieu Quang | Deputy Secretary-Gen, VSSMGE |
| | Ir. Tony C. T. Cheung | President, HKGES |
| | Prof. George Tham | Secretary-General, HKGES |
| | Engr. Tong Seng Chua | President, GeoSS |
| | Prof. Chun Fai Leung | Treasurer, GeoSS |
| | Dr. Suttisak Soralump | President, TGS |
| | Dr. Apiniti Jotisankasa | Secretary-General, TGS |
| | Prof. Yung Show Fang | President, CTGS |
| | Prof. San-Shyan Lin | Immediate Past President, CTGS |
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| | Dr. Sin Fatt Chan | Malaysia |
| | Prof. A.S. Balasubramaniam | Australia |
| | Dr. John Chien-Chung Li | Taiwan |
| | Dr. Chung Tien Chin | Taiwan |
| | Prof. Surachat Sambhandharaksa | Thailand |
| | Prof. Dennes T. Bergado | Thailand |
| | Ir. Raymond Chan | Hong Kong |
| | Dr. Jack Pappin | Hong Kong |

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# SEAGS / AGSSEA NEWS

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## SEAGS/AGSSEA E-JOURNAL

**June 2013 Issue**

It is a pleasure for me to be the Guest Editor for this Special Issue on Modelling Aspects of Soil Behaviour.

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

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

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

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

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

## ACKNOWLEDGEMENT

It is indeed a very great pleasure to have Prof. Akira Murakami of the Kyoto University and Editor in Chief of Soils & Foundations as the Guest Editor for this Special Issue on the Modelling Aspects of Soil Behaviour. Dr. Dariusz Wanatowski, our in-house Editor has assisted Prof. Murakami and us in the production of this important Issue. Additionally Dr. Hossam Abuel-Naga has been helpful in getting contributuions from the United Kingdom.

Grateful acknowledgement is made to the contributing authors : Y. Xiong, X. Bao and F. Zhang; K. Fujisawa, S. Nishimura, T. Shuku and A. Murakami; G. Chiaro, J. Koseki and L.I.N. De Silva; Y. Miyanaga, A. Kobayashi and A. Murakami; D. Takano, J. Otani and M. Nakamura; K. Kaneda, S. Onimaru and T. Tanikawa; and S. D. Clarke and C. C. Hird.

There are seven excellent papers related to slope failure in unsaturated soils; seepage force and velocity of sand particles during sand boiling; elasto-plastic model for sands subjected to monotonic undrained torsional shear loading; Digital Image Analysis for Seismic Behavior of Earth Dam; X-ray CT imaging of 3-D bearing capacity mechanism for vertically loaded shallow foundations; Modeling and Bending Test Simulations of Cement Treated Soil; and Modelling viscous effects during and after Construction in London Clay and they are of great value to engineering practice and research.

Also, the editorial works for the September and December Issues are now well advanced and the valuable assistance from our International Geotechnical Community is gratefully acknowledged.

**K. Y. Yong**
**D. T. Bergado**
**T. A. Ooi**
**A. S. Balasubramaniam**

## E-Journal GUEST EDITORS

We acknowledge with thanks to 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

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**www.seags.ait.ac.th**
**http://www.agssea.org**

## MALAYSIA

### REPORT ON 18SEAGC & 1AGSSEAC - 29 – 31 MAY 2013, SINGAPORE

by Dr. Ooi Teik Aun, President SEAGS - June 1, 2013

The 18SEAGC & 1AGSSEAC was successfully held on 29 – 31 May 2013 in Singapore with more than 350 participants. The conference was organized by the Geotechnical Society of Singapore (GeoSS) under the auspices of the Southeast Asian Geotechnical Society (SEAGS) and the Association of Geotechnical Societies in Southeast Asia (AGSSEA) and co-organized by the Society for Rock Mechanics & Engineering Geology (Singapore) (SRMEG) and supported by the SIMSG and ISSMGE. The Organizing Chairman Prof C F Leung with S H Goh as Secretary and R F Shen as Treasurer and other committee members did an excellent job to bring about a very successful conference.

There were 7 Keynote Lectures namely:-
Keynote 1 (ZC Moh Lecture) "Use of Numerical Analysis with Eurocode 7" delivered by Prof. Brian Simpson.
Keynote 2 (Chin Fung Kee Lecture) "Drafting a National Annex to Eurocode 7 – The Malaysia Experience" delivered by Mr. Tan Yang Kheng.
Keynote 3 (S L Lee Lecture) "Is Site Investigation an Investment or Expense? – A Reliability Perspective" delivered by Prof. K K Phoon.
Keynote 4 "Study of Negative Skin Friction on Pile Subject to Surcharge and Ground Subsidence" delivered by Dr. S M Woo.
Keynote 5 "Strength and Durability of Calcium Carbide Residue Stabilized Clay in Pavement Applications" delivered by Prof. S Horpibulsuk.
Keynote 6 "Spatial Variations in Groundwater Response. During Deep Tunnelling" delivered by Dr. L J Endicott.
Keynote 7 "The Application of Ground Improvement Techniques in Indonesia" delivered by T L Gouw.

The 3-day conference also attracted 145 technical papers which were all presented by the presenters in parallel sessions. Hard bound and soft copies of the proceedings of over 1000 pages were produced and given to the participants.

The conference was made possible by the generous financial support of the sponsors and exhibitors. Their efforts to make this conference a success are greatly appreciated and acknowledged.

To the participants, I thank you for your support and I have no doubt that you have greatly benefited from the exchange of ideas during the conference.

In conjunction with the conference, the respective council meetings of SEAGS & AGSSEA and the General meeting of SEAGS members were also held.

Dr. T. A. Ooi and Prof K. Y. Yong were re-elected as President and Chairman of the SEAGS and AGSSEA respectively. Dr Noppadol Phienwej was elected as the Honorary Secretary General Cum Treasurer of SEAGS. Ir Kenny Yee was re-elected Honorary Secretary General and Prof Charles Ng as Treasurer respectively of the AGSSEA. Prof A. S. Balasubramaniam and Prof D. T. Bergado were elected as honorary member of the SEAGS in recognition of their services to SEAGS. The meetings also confirmed Prof A. S. Balasubramaniam as the Editor-in-Chief of the SEAGS-AGSSEA Journal.

The meetings also confirmed that the 19SEAGC-2AGSSEAC will be held in Hanoi, Vietnam in 2016. The conference will be organized by Vietnamese Society for Soil Mechanics and Geotechnical Engineering under the auspices of the Southeast Asian Geotechnical Society (SEAGS) and the Association of Geotechnical Societies in Southeast Asia (AGSSEA).

The SEAGS & AGSSEA also produced and distributed complimentary copies of CD on the collection of past journal papers from 1970 – 2012 during the conference. The CD will be useful to practitioners and researchers alike.

On 28th May 2013, a one day conference was held successfully for the Young geotechnical engineers (see report by Dr. Victor Ong Chee Wee).

Photos show some record of the proceedings of the events.


President GeoSS, Mr. Chua Tong Seng delivering his welcoming speech


Dr. Ooi Teik Aun, President SEAGS delivering his welcome message

Prof. K Y Yong, Chairman of AGSSEA delivering his welcome speech

Prof. Askar Zhussupbekov, Vice President of ISSMGE for Asia delivering his message

Presenting memento to Prof. Askar Zhussupbekov, Vice President of ISSMGE for Asia


In Appreciation of Dr. Za-Chieh Moh for his services to SEAGS & AGSSEA

Prof. Brian Simpson delivering his Z C Moh Lecture

Prof. K Y Yong presenting memento to Prof Brian Simpson

SEAGS & AGSSEA Council Meetings in progress

Organizing Committee Dinner


Prof. K K Phoon Delivering SL Lee Lecture

Group Photo of Organizing Committee with Council Members of SEAGS, AGSSEA and ISSMGE present at the Conference.


Prof. K Y Yong with Dr. Victor Ong and student helper

Prof. & Mrs J D Nelson at Conference Banquet.

At the Conference Banquet (Left to Right Dr. T A Ooi, Prof. S L Lee and Dr. Z C Moh)

Photo taken after General meeting of members of SEAGS

## SEAGS-AIT Partnership

By Prof. A.S. Balasubramaniam

The Southeast Asian Geotechnical Society (SEAGS), Asian Institute of Technology Partnership dates back to 1967. Both SEAGS and the Geotechnical Program at AIT was the brain child of Dr. Za Chieh Moh with the help of a large number of individuals and organizations contributing in the developments. As we are coming to the end of 2012, it is good to look back on the positive side of this partnership. I was fortunate to have worked with a large number of Distinguished Presidents of SEAGS.

The General Committee of SEAGS in 1987 and those played a key role in the development of SEAGS are presented below.

**Southeast Asian Geotechnical Society**

It is a most rewarding experience to have associated with SEAGS since 1973. The Presidents I worked with as Secretary General are the late Tan Sri Prof Chin from Malaysia, the late Prof. Peter Lumb from Hong Kong, the late Dr. Tan Swan Beng from Singapore, Dr. Ted Brand from UK, Dr. Ting Wen Hui from Malaysia, Prof. Seng Lip Lee from Singapore, Dr Ou Chin Der from Taiwan, Dr. Ooi Teik Aun from Malaysia, Dr. Surachat Sambandaraksa from Thailand, Dr. John Li from Taiwan. I have also worked with Prof. K. Y. Yong from Singapore and Dr. Chung Tien Chin from Taiwan, as a G.C. Member. I am greatly indebted to all of them.

SEAGS has always sought international co-operation and is also a strong arm of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). Our Society conferences always had very distinguished Geotechnical Experts and Professors giving Guest Lectures and also participating. The first conference had Prof. Lambe from MIT as the Guest lecturer. The second conference in Singapore had Prof Ralph Peck as the Guest lecturer.








**ISSMGE & ARC**

In the third conference in HK, the late Prof. Victor de Mello was the Guest lecturer. Prof. Lambe was named as the Hero in Geotechnical Engineering by the Geo-Institute of ASCE. My fist attendance in a Geotechnical Conference was the 4th SEAGC in the Equatorial Hotel in KL. We all went from AIT to participate in this event and that team included Drs. Moh, Brand, Peter Brenner and myself. There, I met Prof. Harry Poulos who was described to me as the most famous Geotechnical Personality. The 9th International Conference in Tokyo organised by Prof. Masami Fukuoka was truly an exceptional event. He lined up all the Geotechnical Personalities from Prof. Peck, Prof. Meyerhof, Prof. Skempton, and so many others. Just before that conference we had the 5th SEAGC in Bangkok. We had Prof. Morgenstern as the Guest Lecturer; also the late Prof. Chin, the late Dr. Arthur Penman, and Dr. Ian Donald from Australia.

The most memorable event associated with that was the Soft Clay Symposium organised by Drs Brand and Peter Brenner. We had personalities from Nils Flodin, Ove Eide, Elmo Dibiagio, Bengt Broms, Sven Hansbo, and Harry Poulos. Dick Parry, the late Peter Wroth. George Pilot, Mike Duncan, Wayne Clough and many others. Prof. Jamiolkowsky also attended in the event. In the above picture you can see them revisiting us in Bangkok and in KL, Taipei, Singapore as well. Prof. Fukuoka became the ISSMGE President in 1977 after Prof Kerisel. Prof de Mello in 1981, Prof. Bengt Broms in 1985, Prof. Morgenstern in 1989, Prof. Jamiolkowsky in 1994, Prof. Ishihara in 1997 . The subsequent Presidents were William Van Impe, Prof. Pedro Pinto and now Prof. Jean Louis Briaud. Dick Parry who was a teacher of mine at Cambridge was the Secretary General of ISSMGE succeeding the late Prof. Kevin Nash and for a brief time Prof. John Burland. Prof. John Burland was a Guest Lecturer in the 12th SEAGC in KL. Over a thousand geotechnical experts visited AIT and attended the conferences in Bangkok. The late Prof. Harry Seed, the late Pierre Londe, Prof. Walter Wittke, Prof. Jim Mitchell are just a few names. The Kevin Nash Award was given to the late Prof. de Beer, the late Prof. Harry Seed, Prof. John Burland, Prof. Jim Mitchell, Prof. Harry Poulos and Prof. Sven Hansbo.


## Asian Institute of Technology

On the AIT side there were many memorable activities. The gold medal Award to HM the King on the occasion of the sixth cycle celebrations as arranged by Prof. Prinya our Colleague was a remarkable event. Also, the 9th Southeast Asian Regional Conference chaired by HR Princess Sirindhon was also a grand success.

During the 40th Year Anniversary we had a grant event at AIT. Most of the former AIT Faculty who attended this event were from the Civil & Environmental Engineering side.

The Milton Bender Lecture Series was also a great success. The First Lecture in the series was given in March 1993 by Professor Andrew Schofield, a Fellow of the Royal Society of London on the most admired fields of Centrifuged Model Tests and Critical State Soil Mechanics. The 1994 Lecture was given by Prof. Ray W. Clough, a pioneer in the Development of Finite Element Analysis. Prof. Clough has also been outstanding in the fields of dynamic analysis of structures, experimental research in structural behavior during earthquakes, and the development of the Earthquake Research Center at Berkeley with its shake table and other related facilities. The 1995 lecture, third in the series, was given by Prof. Kiyoshi Horikawa, President of Saitama University and Professor Emeritus at the University of Tokyo. Prof. Horikawa, again a pioneer researcher in Coastal Engineering, brought to AIT his contributions and experiences in expanding the knowledge on the Coastal Engineering discipline, particularly the near shore dynamics and coastal transport mechanism. Prof. Jorg Imberger from the University of Perth, Australia and an eminent environmentalist who has participated and directed high-level projects on Water Quality and Environmental Management throughout the world from the Bay of Venice to the lakes of Chile and Japan, gave the Fourth Lecture in 1996. In 1996, Prof. Jorg Imberger was awarded the Stockholm Water Foundation Prize for his outstanding contributions to the Water Industry. Professor Douglas Wright, a distinguished Structural Engineer and a University Professor and Administrator at the University of Waterloo in Canada, gave the Fifth Lecture in 1997 on "Engineering the New Economy".


## Asian Institute of Technology

Professor Amir Pnueli, a Science Mathematician cum Computer Scientist at the Weizmann Institute of Science, Israel, gave the 1998 Lecture. Professor Amir Pnueli recently received the world's most prestigious Turing Award in Computer Science dubbed as the "Nobel Prize in Computer Science". Prof. Pnueli developed sophisticated methods for verifying the correctness and the reliability of computer systems, including software and hardware. These innovative systems control crucial aspects of contemporary life, such as the operation of nuclear power stations, missile launching, aircraft navigation, functioning of medical equipment and communications.

Professor Cham Tao Soon, a past-President of the Institution of Engineers, Singapore (IES) and the President of the Nanyang Technological University (NTU) was the Year 2000 Bender Lecturer at AIT on the occasion of the Information Technology Conference August 1-4, 2000. The title of Prof. Cham's Lecture is "The Impact of Information Technology on University Education". The Asian Institute of Technology introduced the prestigious Milton Bender Lecture Series in Engineering, Science, Technology and Management to honor the first AIT President, Dr. Milton E. Bender. The lecture is given at the Institute once a year by distinguished University Professors selected on a global basis. Educated at Raffles Institution and a Singapore State scholar at the University of Malaysia, Prof. Cham was also a commonwealth Scholar at the Cambridge University, where he received his Ph.D. Prof. Cham, a former Dean of the Faculty of Engineering at the National University of Singapore was the founder-President of NTU in 1981. Under his able leadership, NTU has become one of the finest universities offering higher education. Prof. Cham, a foreign member of the Royal Academies of Sweden and UK is an Honorary Fellow of St. Catherine's College in Cambridge. He has also received honorary Doctorate Degrees from many Universities in UK and Japan.


**Asian Institute of Technology**

The last Milton Bender lecture was given by Dr. Za Chieh Moh. Concurrently he was also given an Honorary Doctorate Degree by AIT.

Dr. Za Chieh Moh had his undergraduate education at National Taiwan University in 1953, graduated with the Sc.D from MIT in 1961, and since has maintained a continuing relationship with Prof; Lambe and other eminent geotechnical engineers in all parts of the world.

Dr. Za Chieh Moh jointed the Asian Institute of Technology (AIT) in 1965 and was given the special task of establishing a field of study in Soil Mechanics. This he was able to accomplish within a year. The period that followed constituted the formative years for geotechnical engineering in Asia. Over the years, several leading geotechnical engineering professors have joined the Institute and the Institute is now well known in geotechnical engineering circles over the world. Nearly 1000 graduates of AIT with post-graduate education in geotechnical engineering are working in many parts of Asia and elsewhere; many of these graduates hold key positions in universities, government and the private sectors.

In early 1976, Dr. Za Chieh Moh moved to consulting practice and soon established himself as a leading geotechnical consultant in Southeast Asia, including Singapore, Malaysia, Indonesia, Philippines, Thailand Hong Kong, China and Taiwan. Some of the important projects carried out by him include geotechnical and seismic study of the Kaoshiung Cross Harbour Tunnel; geotechnical study for the reclamation for an abandoned river channel for development in Taipei; design and instrumentation of a 30-m retaining structure; and instrumentation for deep excavation and geotechnical studies for mass rapid transit systems. There are a large number of other projects as well.

In international field, Dr. Moh made notable contributions when he served as the Vice President for Asia of the International Society for Soil Mechanics and Foundation Engineering (ISSMFE) in 1973 to 1977. Additionally, he has served as a panelist, a general reporter and session chairman in many international and regional conferences. To be able to contribute significantly in Geotechnics demands the virtues of good sense and sound judgement, both possessed abundantly by Dr. Moh. In consequence, he has been called upon to serve on a very large number of technical committees of ISSMFE and its national societies.

The late Dr. Chai Mukthabant was also awarded an Honorary Doctorate Degree and so was Khun Kasame cHatikavanich the former Governor of EGAT.

Prof. Worsak Kanokkulchai organised the AIT Hall of Fame during the 50th Anniversary of AIT.

The AIT Hall of Fame really brought great prestige to AIT. It would be nice if this event can be continued in the future as well. Unfortunately, AIT was badly affected by the floods. This was a tremendous set back to AIT. However, AIT was able to recover back and have a grand graduation ceremony in December this year.

The astonishing recovery of AIT and the 118th Graduation Ceremony. Thanks to Prof. Irandoust the President of AIT and the most valued contribution by the Faculty, Staff and most importantly the alumni.


The success of SEAGS-AIT and the new AGSSEA is mostly due to the international co-operation and goodwill. This trend must continue. Both SEAGS and AIT enjoyed very strong support, while we cannot single out any one of them, the contributions from Japan, Thailand, Taiwan and indeed a very large number of countries within and without Asia and the international and national organizations are worthy of mentioning. The current picture of AIT before graduation is remarkable indeed.

## APPLIED COURSE ON ENGINEERING GEOLOGY AND ROCK ENGINEERING - 15 & 16 JULY 2013

The Tunnelling & Underground Space Technical Division of The Institution of Engineers, Malaysia (IEM) and Association of Geotechnical Societies in Southeast Asia (AGSSEA) jointly organized a 2-day "Applied Course on Engineering Geology and Rock Engineering" on the 15th-16th July 2013 at the Professor Chin Fung Kee Auditorium in Wisma IEM, Selangor, Malaysia. This course is supported by The Institution of Civil Engineers, UK. Professor Paul G. Marinos, a renounced researcher and consultant on the applications of engineering geology from the National Technical University of Athens, Past President of The International Association of Engineering Geology and an Environment Independent Consulting Engineer, was invited by AGSSEA to give a touring lecture course consisting of Brisbane, Kuala Lumpur, Singapore, Yangon, Bangkok, Hanoi, Danang and Ho Chi Min City. Professor Paul G. Marinos has more than 40 years in the teaching, research and global consultancy experience in Engineering Geology. He has been involved in civil engineering and mining projects related to tunnel and dams in more than 20 countries.

The topics featured in day one of the workshop covered topics on geology in engineering practice, engineering behavior of various rock types, rock mass characteristics and its design parameters, and engineering geology for tunneling in difficult ground. On the second day, Prof. Paul shared his experience about the geological constraints and geotechnical issues in mechanized tunneling, geology in dam engineering, watertightness of dams and reservoirs, rock slope stability and various case histories of failures in tunneling and dam constructions.

Chairman of the event is Ir. Dr. Ooi Teik Aun, ICE Country Representative for Malaysia and Director of IEM Training Centre Sdn Bhd and Advisor to the Tunnelling and Underground Space Technical Division of IEM. About 40 participants including 10 representatives from the ICE Student Chapter of University of Nottingham Malaysia Campus (UNMC) attended the lecture course. They are Derek Wong, Dharyl Nazren bin Ighwan Salim, Lee Chian Fang, Lee Pin Lit, Leong Tat Soon, Mohd. Naqiuddin bin Mat Yaacob, Nafi'u Aminu Hanafi, Ramesh Gn, Soe Thu and Yeow Su Lee.

Group photographs were taken and participants were given attendance certificates with CPD points.

Prepared by,
Su Lee Yeow
Secretary
ICE Student Chapter
University of Nottingham Malaysia Campus
July 2013

Photo of Participants with Prof Marinos

Photo of ICE UNMC ICE Students with Prof Marinos

## Professor Paul G. Marinos

Professor of Engineering Geology at The National Technical University of Athens
Past President of The International Association of Engineering Geology And The Environment
Independent Consulting Engineer

Dr Paul Marinos received a Mining Engineering degree from the School of Mines of the National Technical University of Athens, Greece in 1966, a postgraduate degree in Applied Geology from the University of Grenoble, France, and his Doctorate in Engineering Geology from the same University in 1969. He worked for French and Greek design and construction companies until 1977 and then was elected as Professor at Democritus University in Northern Greece. Since 1988 Dr Marinos has been Professor of Engineering Geology in the School of Civil Engineering in the National Technical University of Athens and has served as head of the Geotechnical Section of the School for several years. From 2001 to 2004 and from 2006 to 2008 he was the Director of a Graduate Course in Tunneling and Underground Construction. He was a visiting Professor in the Geology Department of the University of Grenoble (1987) and of the School of Mines in Paris (2003).

Dr Paul Marinos is a member of AEG and GSA and fellow of the Geological Society of London. He is a past President of the International Association of Engineering Geology and the Environment (IAEG), past President of the Geological Society of Greece, past president of the Greek Tunnelling Society and honorary member of the International Association of Hydrogeologists (IAH).

Dr Paul Marinos has received several awards, including the Hans Cloos medal of IAEG, and the Andre Dumont medal of the Geological Society of Belgium. He was selected for the presentation of named lectures, including the 6$^{th}$ Glossop Lecture in London (2002), the 19$^{th}$ Rocha Lecture in Lisbon (2002), the 33$^{rd}$ Cross Canada Lectures Tour (2005), the Rock Mechanics annual Lecture in Madrid (2006), an invited lecture tour in Australia, by the Australian Geomechanics Society and as the 2010 Jahns distinguished Lecturer of the Geological Society of America and the Association of Engineering Geologists In 2013 he was awarded by the French Republic as “Chevalier de l’Orde des Palmes Academiques”

Dr Paul Marinos and his team conduct research on a variety of applications of geology to engineering, mainly rock mass characterization, weak rock properties and behavior, and karstic terrain, with special emphasis to engineering design and construction of tunnels and underground works. His work also covers landslides and dam geology. His other significant interest is the protection of historic monuments and archeological sites. Dr Marinos has authored or co-authored over 300 papers in journals or major conference proceedings. He was a key or invited lecturer in more than 50 conferences or special events. He has given lectures to University Courses or Workshops, among them the

Federal Technical University (EPFL) in Lausanne, Switzerland, the Polytecnico of Turin, Italy, the University of Durham, U.K., the University of Coimbra, Portugal, the University of Kobe, Japan, the Black Sea University Romania, the Aristotle University of Thessalonica, Greece, and the Griffiths University, Australia. He has edited proceedings published by international publishers. Dr Marinos is editor in chief of the journal "Geotechnical and Geological Engineering" and also a member of the Editorial Board of a number of prominent journals as "Engineering Geology", "Bulletin of the International Association of Geology", Landslides", "Environmental Geology", "Rock Mechanics" and from 2009 "Environmental and Engineering Geosciences".

Dr Paul Marinos has extensive industrial experience having served as consultant, independent reviewer and member of consulting boards or panel of experts on major civil engineering and water resources projects in Albania, Chile, Ecuador, Ethiopia, Greece, France, India, Iran, Jordan, Lebanon, Morocco, Nigeria, Papua New Guinea, Portugal, Peru, Saudi Arabia, Laos, Spain, Sweden, Tajikistan and Turkey.

## THAILAND

### SPECIAL SEMINAR ON EXPERIENCES IN ENGINEERING GEOLOGY AND CONSTRUCTION IN ROCKS FOR BUILDING AND INFRASTRUCTURE DEVELOPMENT, BANGKOK (24 JULY 2013)

Special seminar on Experiences in Engineering Geology and Construction in Rocks for Building and Infrastructure Development was in held at the SC Park Hotel in Bangkok on 24th July 2013. This one-day seminar was jointly organized by The Engineering Institute of Thailand under H.M. the King's Patronage (EIT), Thai Geotechnical Society (TGS), Association of Geotechnical Society in Southeast Asia (AGSSEA), Geotechnical Engineering Research & Development Center (GERD): Kasetsart University and Thailand Underground and Tunnelling Group (TUTG).

- Lecture 1 : Case studies in tunneling under difficult geological conditions by Prof Paul Marinos
- Lecture 2 : Case studies for dams under difficult geological conditions by Prof Paul Marinos
- Lecture 3 : Choice of tunneling methods for Thailand future infrastructures by Dr Herald Wagner
- Lecture 4 : Case study of design and construction of large foundation on rock by Dr. Suttisak Soralump

Through a series of recent case histories featuring engineering geology, tunnelling and foundation on rocks, the seminar was a good combination of design and practice which was well received by the participants.

Prof. Paul Marinos, Dr. Harald Wagner, Dr. Suttisak and participants, 24 July 2013, Bangkok, Thailand

## SINGAPORE

### 18SEAGC – 1AGSSEAC in Singapore – 29 – 31 May 2013

The 18th Southeast Asian Geotechnical Conference (18SEAGC) and the Inaugural Association of Geotechnical Societies in Southeast Asia Conference (1AGSSEAC) was held in Singapore from 29 – 31 May 2013. The theme of the conference is "Challenges in Sustainable Geotechnical Infrastructures". It is organized by the Geotechnical Society of Singapore (GeoSS) under the auspices of SEAGS and AGSSEA. The organizing chairman is Prof. C F Leung.

There was a Young Geotechnical Engineers' session (YSEAGC). It was held one day prior to the main conference on 28th May 2013 at the National University of Singapore. They then joined the main conference on 29 – 31 May, 2013 at a leading hotel within the vicinity of National University of Singapore.

### THE 18SEAGC-1AGSSEA YOUNG PEOPLE SESSION

The 18SEAGC-1AGSSEA Young People Session was held on 28th May, 2013 at the Faculty of Engineering, Engineering Auditorium, National University of Singapore.

The objective of the 18SEAGC-1AGSSEA Young People Session is to promote the development of professional careers for young geotechnical engineers (less than 35 year old) and to enhance international liaison and cooperation between them. Young geotechnical engineers will share their experience, results of work and research, and perspectives on future advancement of the geotechnical profession. There were total 50 young delegates from 7 countries who attended the session.

Keynote Lectures were presented during the session. The Keynote speakers were Prof. Yong Kwet Yew, (*Chairman AGSSEA, Vice President NUS)* and Er. Chua Tong Seng (*President of GeoSS)* with topics focusing on "Planning, Design and Construction of Underground MRT System in Singapore" and "Changes in Geotechnical Engineering" respectively.

The 11 contributions from the delegates (Singapore-3 papers, Taiwan-2 papers, Hong Kong-2 papers, Indonesia-1 paper, and SEAGS (Malaysia-1 paper)) were received in various geotechnical topics.

### ROUNDTABLE DISCUSSION

The 18SEAGC-1AGSSEA Young People Session hopes to encourage young geotechnical engineer to pursue advanced research works in their field of interest. Suggestions and feedbacks were discussed during the roundtable session. This is the 'seniors interact with juniors event' for sharing vital experience and advice by the seniors to the juniors. The following respected and reputable mentors have attended the roundtable discussion with the young delegates:- Prof. Yong Kwet Yew, Prof. Wong Kai Sin, Dr. John Endicott, Dr. Brian Simpson, Er. Chua Tong Seng , Ir. Gouw Tjie-Liong

The 18SEAGC-1AGSSEA Young People Session wish to thank all the delegates for their presentations & enthusiasm, mentors for the time & feedback, and finally to our generous sponsors.

*Reported by:*
*By Dr. Ong Chee Wee, Victor, Organizing Committee*
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*KIMARO Geotechnical Engineering (S'pore & M'sia) Pte Ltd*
*J.Pro Consulting Engineers (S'pore & M'sia) LLP*

Keynote speakers Prof. Yong KY, (*Chairman AGSSEA, Vice President NUS)* and
Er. Chua Tong Seng (*President of GeoSS)*

Our young and dynamics delegates

Group photo of Young delegates with invited Speakers, Chairman
and Organizing Committee of the 18SEAGC-1AGSSEA Young People Session


Roundtable Discussion between the reputable mentors and the young delegates


Dinner Reception and happy hour at NUSS Kent Ridge Guild House

## 1-DAY COURSE ON DESIGN AND CONSTRUCTION ISSUES IN URBAN TUNNELLING - 18 JULY 2013

The course jointly organized by Association of Geotechnical Societies in Southeast Asia (AGSSEA) and Tunnelling Society of Singapore, (TUSS) was successfully conducted on 18 July 2013 and attended by more than 80 participants.


Photo of Prof. Marinos with participants in Singapore

## INTERNATIONAL SYMPOSIUM ON ADVANCES IN FOUNDATION - 5 & 6 DECEMBER 2013

International Symposium on Advances in Foundation Engineering will be held on 5 & 6 December 2013 in Singapore.

Please refer to www.isafe2013.sg for details and online submission of abstracts.

## CHINESE TAIPEI GEOTECHNICAL SOCIETY (CTGS)

### REPORT ON THE 1ST TAIWAN-KAZAKHSTAN JOINT WORKSHOP ON GEOTECHNICAL ENGINEERING

by Der-Wen Chang, CTGS Secretary

The 1st Taiwan-Kazakhstan Joint Workshop on Geotechnical Engineering was held in Taipei, Taiwan at Tamkang University (TKU) on May 27, 2013. The theme of the conference is *Advances in Geotechnical Engineering*. With the organization from Chinese Taipei Geotechnical Society (CTGS) and the supports from National Science Council of ROC and TKU, a series of plenary sessions consisting of two keynote lectures and seventeen invited lectures was delivered. ISSMGE VP for Asia, Prof. Askar Zhussupbekov and Dr. Siu-Mun Woo were the keynotes representing Kazakhstan Geotechnical Society (KGS) and CTGS, respectively. The delegates from KGS were formed by fourteen people lead by Prof. Zhussupbekov. Among them, three renowned scholars (Prof. Tadatsugu Tanaka, Prof. Yoshinori Iwasaki and Prof. Tatsunori Matsumoto) were from Japan. Nine delegates from CTGS were led by CTGS President, Prof. Yung-Show Fang of National Chiao Tung University. Excellent presentations and good discussions were made. Approximately 80 people from CTGS attended the workshop. On May 28 and 29, tours were arranged for the KGS delegates including visits to the Taipei metro subway system construction site and National Center for Research on Earthquake Engineering (NCREE). Photos taken during the workshop are shown as follows:


The opening ceremony at TKU Taipei campus
Front line (from left to right): Prof. T. Tanaka, Dr. Y. Iwasaki, Prof. A. Zhussupbekov, Dr. Flora Chang (TKU President), Dr. Z.-C. Moh, Prof. Y.S. Fang

Token given to Prof. Askar Zhussupbekov by CTGS President Prof. Y.S. Fang

Lecture delivered by CTGS President Prof. Y.S. Fang on “Double-o-tube shield tunneling in Taoyuan international airport MRT project”

Lecture “When ground anchors become rusty” delivered by Prof. H.J. Liao (AGSSEA CM)

Photo I at the welcome banquet hosted by Dr. John C.C. Li

Photo II at the welcome banquet

NCREE laboratory tour

NCREE briefing and discussions

KGS group visitor toured Taipei MRT construction site

## SUMMER TRAINING COURSE FOR SLOPE LAND DISASTER REDUCTION NATIONAL TAIWAN UNIVERSITY, TAIPEI – 4 – 15 AUGUST 2013

This short course was organized by Prof. Ko-Fei Liu of National Taiwan University, Taipei. , Participants from Vietnam and Thailand attended this short course with financial support from Taipei. The offer of financial support was also extended to other members of the AGSSEA. The announcement for this course is as below.


## VIETNAM

## REPORT ON THE ACTIVITIES OF VSSMGE FROM JANUARY TO AUGUST 2013

1. Short Courses on Geotechnical Engineering
   - 1.1 From 16/2 to 28/2/2013, the short course on "Geotechnical Engineering for Green Development, GEGD-2013" was organized in Hanoi, Danang and HCMC. The key speakers were Prof Jean Briaud, Prof Charles Ng, Dr T.A. Ooi, Mr Kenny Yee, Mr C.K. Khoo, Prof Nguyen Truong Tien, Dr Trinh Viet Cuong, Dr Pham Quang Hung, Mr Cao Hoa, Mr Do Huu Dao.
   - 1.2 From 4 June to 5 June 2013: Prof Bengt H. Fellenius, Prof Mounir Bouassida and Prof Nguyen Truong Tien gave the lectures on Pile Foundation and Stone columns.
   - 1.3 From 24 July to 3 August 2013 Prof Paul Marinos and Nguyen Truong Tien delivered lectures on Geology Engineering, Tunnels, Dams, Slope Stability, Rock Mechanics, Land Subsidence due to ground water lowering in cities of Vietnam and the Geotechnical Standard in Vietnam. About 400 participants attended the courses in Hanoi, Danang, HCMC and Vinh Long.
   - 1.4 6 delegates from VSSMGE will attend the short course on slope stability which will be held in Taiwan from 4 to 12 August 2013.

2. Conferences and Seminars
   - 2.1 The first International Conference on Foundation and Soft Ground Engineering Challenges in Mekong Delta on 6 June 2013 at Thu Dau Mot University, Binh Duong Province. More than 200 delegates attended.
     Keynote lectures were delivered by Prof Bengt H Fellenius, Prof Madhira R Madhav, Prof Buddhima Indraratna, Prof Mounir Bouassida, Prof Rolf Katzenbach, Prof Nguyen Truong Tien, Prof Nguyen Cong Man.
   - 2.2 "Land subsidence in Mekong Delta River" Seminar on 3 July 2013 in CanTho City. The key speakers were from NGI, VSSMGE and other organization. The Seminar was organized by Ministry of Agriculture and Rural Development and Embassy of Norway to Vietnam.
   - 2.3 The Seminar on Geotechnical Material for Infrastructure Development was held in Hanoi by Tensar International, Vietnam. VSSMGE was invited to be key speaker.
   - 2.4 The Seminar on Infrastructure Development will be held in Danang Poly Technical University on 17 August 2013. VSSMGE will chair the Geotechnical Session and deliver the keynote lecture on soil improvement technology for road construction.
   - 2.5 Mr Do Huu Dao and Mr Nguyen Minh Hai will attend the 18 ICSMGE Conference and make two presentations.
   - 2.6 The 2nd Geotechnical Conference will be held in Hanoi from 26 November 2013. We already received more than 200 papers from Vietnam and oversea.
   - 2.7 VSSMGE is working on the first announcement of our 19SEAGC-2AGSSEA Geotechnical Conference on May/June 2016 in Hanoi, in accordance with the tradition of the SEAGC- AGSSEA.

3. Research Projects
   - 3.1 VSSMGE was appointed by the Vietnamese Authority to review existing geotechnical standard in Vietnam and to propose a draft new Vietnamese Geotechnical Standard.
   - 3.2 Proposals on pilot projects on Green City and Smart Village have been made.
   - 3.3 VSSMGE is undertaking the responsibility to draft the Vietnamese Standard for sand drain, sand compaction piles, stone columns in accordance to the requests of Vietnamese Institute of Standards, Ministry of Science and Technology.
   - 3.4 VSSMGE is currently drafting the Vietnamese Foundation and Geotechnical Manuals.
   - 3.5 Research Projects on the behaviour of cement column group and pile foundation under vertical and horizontal loads
   - 3.6 Research Projects on Code of Ethics of Geotechnical Engineers.
   - 3.7 Colleagues and friends from Norway, Sweden, Germany, UK, France, Canada, Holland, Japan, Korea, USA are working in Vietnam in research program on land subsidence, soil improvement, dam, slope stability, erosion control. Metro, underground structures, contamination of soil and water, green technology and education.

4. Mega Projects

4.1 **Line No1 of Metro in HCMC**

The Consultant and contractors are from Japan. Metro Line "1 will connect Ben Thanh Market and Suoi Tien Theme Park in HCMC. The elevated section of the metro line starts from Ba Son Shipyard, crossing Van Thanh and Tan Cang, then running along Hanoi Highway to Suoi Tien Park, stretching a total of 17.1 kilometers with 11 stations. This is the first package to get going, among the four packages of the project. The contractor is a consortium grouping Japan's Sumitomo Corporation and Vietnam's Civil Engineering Construction Corporation No. 6 (Cienco 6). The contractor will take charge of design, construction, supplying equipment, testing, operation, providing utility services and developing the maintenance station. The package is worth 45 billion yen, or some US$560 million. In line with the overhead section, the underground section of the metro line connecting Ben Thanh and Ba Son is under construction. Specifically, the fourth station near the City Opera House is being built. The Metro Line No. 1 has the total length of 19.7 kilometers, consisting of a 2.6-km underground section and a 17.1-km overhead section, with three underground stations and 11 elevated stations. The project is scheduled for completion in 2017 and then it will start operation in 2018. The project originally required US$ 1.09 billion, which would be funded by the official development assistance (ODA) capital and the State budget. However, because of adjustments in some components and exchange rate fluctuations, the total investment capital has been revised up to US$ 2.07 billion.


4.2 **The Metro of Hanoi**

The metro project is part of the Vietnam Ministry of Transport's master plan, which aims to reduce the use of private transport and enhance the urban environment. The metro system will have five routes. The main route - line 3 - will be the first metro line in Hanoi. On completion, the route will provide transport to 200,000 passengers a day. It broke ground in September 2010 and is expected to become operational by the end of 2015. The entire project is being carried out by Hanoi Metropolitan Rail Transport Project Board (HRB), formerly known as the Hanoi Authority for Tram and Public Transport Development Management (HATD). Technical studies of the system were completed in 2009. The 12.5km pilot line will incorporate a 5.5km single track U-viaduct and a 4km twin tunnel. The feasibility study for a Hanoi metro pilot route / line was completed in October 2005 and design of the pilot line started in 2007. The pilot route will be an east-

westbound line and will connect 12 stations in the city between Hanoi station and Nhon depot. The 12.5km pilot line will incorporate a 5.5km single track U-viaduct and a 4km twin tunnel structure. The system will include 9.6km of elevated and 2.9km of underground sections, and will use 20m metro trains to transport 900 passengers in a single trip. The trains will run at 80km/h, covering the entire route in 20 minutes. International consulting engineers HRB and SYSTRA signed two contracts to construct the pilot line. Each contract is worth €36m and the total cost of the pilot line is about €500m. The metro's infrastructure will include a viaduct, an underground section, stations, a depot and rolling stock maintenance centre and power supply stations. The construction of line two began in 2011 and is expected to be operational in January 2016. The project is being coordinated and financed by several organisations including the World Bank, the Asian Development Bank and the European Investment Bank. The latter has granted a €173m loan to help fund the construction of line 3. Part of the project is being financed by Agence Française de Développement (AFD). The money provided by AFD is being used to construct the pilot line's infrastructure. The project is being co-financed by bilateral overseas development assistance loans. They amount to €280m, of which €200m is tied and €80m is untied.

**4.2 The Lach Huyen Port in Quang ninh**

The Lach Huyen Port in Quang ninh was started on 14 April 2013. Lach Huyen port is the first piloting PPP project between the Governments of Vietnam and Japan where public portion financed by ODA fund and private portion invested by the Joint Venture of Japanese and Vietnamese partners. It aims to respond to the growth of demand in cargo volume as well as the increase of larger vessels in the maritime transportation market by building a new international deep-sea port and related basic infrastructure in Lach Huyen area, thereby contributing to economic development and greater competitiveness in the international market. Lach Huyen port's construction is divided into two parts. Part one is managed by the Vietnam Marine Administration with investment of over VND18.6 trillion sourced from Official Development Assistance and the State budget, covering the building of port infrastructure. The second part, a joint venture of Vietnamese and Japanese enterprises with more than VND6.57 trillion in investment, will build two wharves with a total length of 750 meters, capable of handling 100,000-tonne container ships. Package 6 (the first one kicked off among total 4 civil work packages under JICA financing) comprises of land reclamation, soft soil improvement, port protection facilities and public related facilities. Following Package 6, the other 3 civil works packages are planned to start soon. The project is scheduled to be completed by 2016. The 1st loan agreement for the project was signed on November 2, 2011 between the Government of Vietnam and JICA with the total amount of around USD120 million. Next loan agreement(s) shall be provided in accordance with the progress of the project. According to Mr. Motonori Tsuno, Chief Representative of JICA Vietnam Office, this project is one of the most important Japanese ODA projects in Vietnam. JICA has been assisting this project from the planning stage, detailed design stage to construction stage, through both technical and financial cooperation.

### 4.3 Highway No 1

Highway No 1 widening is under preparation for construction. Widening the existing highway No. 1 would spearhead expansion of trade, investment, and socio-economic development in the whole country. “It will also play an important role in the country’s socio-economic development, defence, and security.” Since public funding is limited the Government is implementing a policy of “socialising investment.” National Highway No.1 is devided by sections passthrough each provives and will be implemented in BOT (build-operate-transfer) projects. A 22-km stretch of National Highway 1 between Can Tho City and Hau Giang Province is being widened at a cost of US$87 million. The work that began last Friday is the last of 17 projects nation-wide to widen the trans-Viet Nam Highway No.1. This section will be expanded to 21.6 meters, and have four lanes for motor vehicles (up from the current two) and two more for non-motorised vehicles. There are some newly built and upgraded bridges along the route.

### 4.4 Social Houses

Social houses for low income people were developed. We need new technology of construction to reduce the cost and increasing the value engineering. There were 104 social housing projects nationwide as of the end of May 2013, 47 of which were converted from commercial ones, according to the Ministry of Construction. There were also 38 projects for housing workers in industrial zones. Deputy Minister of Construction Nguyen Tran Nam said that low-income houses would cost less than 12 million VND (approximately 572 USD) per square metre.

4.6 **Construction of overpass at Hue T-junction**

Construction of overpass at Hue T-junction will start in early September 2013. The Da Nang People's Committee Chairman, Mr Van Huu Chien, announced that the construction of an overpass at the city's Hue T-junction is expected to start on 2 September. This key project will contribute to the improvement of the local urban landscape. The city's Trung Nam Company will coordinate with the Ministry of Transport to carry out the project, which will be implemented on the build-transfer (BT) basis at a cost of over 2,000 billion VND. The overpass will consist of 3 levels: the lowest level will be for rail traffic, whilst the 2 upper ones will be used for local and inter-provincial vehicle traffic.

Photos of Prof. Paul Marinos's Lecture Series in Vietnam


Group photograph with Prof. Paul Marinos in Hanoi

Course in Danang


Group photograph with Prof. Paul Marinos in Ho Chi Minh City

Group photograph with Prof. Paul Marinos in Vinh Long

## HONG KONG

**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 FEBRUARY TO AUGUST 2013

1. Courses and Workshops
   1.1 Two sessions of workshop (jointly organised with the University of Hong Kong (HKU), the Hong Kong University of Science & Technology (HKUST) and the Hong Kong Polytechnic University (HKPU)) on "Slope Engineering" were held on 23 February 2013 and 2 March 2013 at the Hong Kong Polytechnic University.
   1.2 Two sessions of workshop (jointly organised with HKU, HKUST and HKPU) on "Foundation Engineering" were held on 20 and 27 April 2013 at the Hong Kong Polytechnic University.
   1.3 The joint workshop of ISSMGE TC101-TC105 on "Experimental Micromechanics for Geomaterials" was hold on 23-24 May 2013 at the University of Hong Kong. Prof Pierre Delage, Prof Masayuki Hyodo, Prof Carlos Santamarina and Prof Giacchina Viggiani were invited as keynote speakers in this workshop.

The Joint Workshop of ISSMGE TC101-TC105 on "Experimental Micromechanics for Geomaterials"
Left: Ground photo of all participants. Right: Discussion session of the workshop.

2. Conferences and Seminars

2.1 The seminar (jointly organised with HKU) on "The Effects of Deep Excavations in Soils and Rock on Adjacent Structures" was held on 25 February 2013 at the University of Hong Kong. Prof K.Y. Lo was invited as the speaker of this seminar.

2.2 The seminar (jointly organised with China HK Society for Trenchless Technology, The Hong Kong Institution of Engineers – Civil Division and HKPU) on "Sewers – The Use of Plastic Piping Systems" was held on 25 March 2013. Mr. Wim Elzink was invited as the speaker of this seminar.

2.3 The seminar (jointly organised with HKU) on "Stability Analysis of Corner Slurry Trenches" was held on 12 April 2013 at the Hong Kong Institution of Engineers headquarters. Prof Dr –Ing habili Theodoros Triantafyllidis was invited as the speaker of this seminar.

2.4 The 1-day seminar (jointly organised with the Association of Geotechnical & Geoenvironmental Specialists (Hong Kong)) on "Geotechnical Computer Modelling" was held on 20 April 2013 at the University of Hong Kong. Various speakers were invited in this seminar.

2.5 The seminar (jointly organised with HKU, HKUST and NTU Alumni Association (Civil & Geology) in Hong Kong) on "Energy Geotechnology: Phenomena" was held on 21 May 2013 at the Hong Kong Institution of Engineers headquarters. Prof Carlos Santamarina was invited as the speaker of this seminar.

2.6 The annual seminar on "Geotechnical Aspects of Tunneling for Housing Supply and Development" was held on 31 May 2013 at the Hong Kong International Trade and Exhibition Center. Mr K K Ling and Dr Sam Ng gave invited lectures. Various speakers were invited in this seminar.

2.7 The seminar on "Construction of Deep Shafts for Hong Kong West Drainage Tunnel Using Raiseboring" was held on 4 July 2013 at the Hong Kong Institution of Engineers headquarters. Mr Guy Bridges was invited as the speaker of this seminar.

2.8 The seminar (jointly organised with Association of Geotechnical & Environmental Specialists (Hong Kong) and American Society of Civil Engineers (HK Section)) on "Managing Geotechnical Uncertainty into Effective Project Delivery" was held on 24 July 2013 at the City University. Mr Ray Wood was invited as the speaker of this seminar.

2.9 The 4th International Symposium on Geotechnical Safety and Risk (ISGSR2013) will be held on 4-6 December 2013 at the Hong Kong University of Science and Technology.

Annual seminar on "Geotechnical Aspects of Tunneling for Housing Supply and Development"
Left: Prof Anthony B L Cheung was delivering the opening address for the annual seminar.
Right: Dr Sam Ng was giving the invited lecture on "Rock Caverns – Unlimited Space for Future Development".

## MYANMAR

### SPECIAL SEMINAR ON APPLIED ENGINEERING GEOLOGY AND ROCK ENGINEERING, YANGON, 23RD JULY 2013, MYANMAR ENGINEERING SOCIETY BUILDING, YANGON, MYANMAR

Professor Paul Marinos, Emeritus Professor of the National Technical University of Athens delivered a series of lectures on engineering geology and rock engineering. The seminar was jointly organized by Myanmar Engineering Society and Myanmar Geoscience Society and sponsored by A1 Group of Companies and Mr. Zaw Zaw Aye of Seafco Public Company Limited. Opening speech delivered by Mr. Hla Baw (Chairman of the Myanmar Tunnelling and Underground Space Association) the seminar was well attended by over 150 geologists and engineers from both public and private sectors. Started with overview of the engineering behavior of various rock types, Prof. Marinos

highlighted important design parameters which geologists and engineers are required to thoroughly review and evaluate in rock engineering. The lectures also covered the challenges for engineering geologists and engineers involved in tunnel and dam construction in difficult ground condition. Geological constraints and geotechnical issues in mechanized tunnelling were demonstrated. Interesting case histories of mountains and urban tunnels were discussed by Prof. Paul Marinos in the end of the seminar.

Prof. Paul Marinos and participants,
Myanmar Engineering Society and Myanmar
Geoscience Society, Yangon, Myanmar

Prof. Paul Marinos and Organizers and Sponsors, Yangon, Myanmar

## ISSMGE PRESIDENT'S REPORT

### 1. Forty Fifth Progress Report

**Distinguished Colleagues, Dear Friends,**

This is my forty fifth progress report after 1370 days as your President. Note that previous reports are on the ISSMGE web site at http://www.issmge.org/en/the-society/the-president/progress-reports if you need them. In this report, I will talk to you about our **upcoming webinar, what happens to TCs in September 2013, Time capsule and PRC work, YGEC conferences, and GeoMap,**

**Webinar:** Our next and final webinar of my presidency will take place on 25July2013 at 8am Australia Eastern Standard Time. The topic will be "Meeting the Challenges of Foundation Design for Tall Buildings" and it will be presented by **Harry Poulos** who truly needs no introduction. You can find more details about this webinar at http://www.issmge.org/en/announcements/611-12th-webinar-professor-harry-poulos. As usual **Theresa**, my assistant (ttaeger@civil.tamu.edu), can also help you if you have questions.

**What happens to TCs in September 2013**: This is a reminder of the ISSMGE Board decision taken about one year ago. The Technical Committees will continue under the current chair without any interruption through the election of the new President. The Chairs will rotate off if they have been in that position for 8 years or more. If they have been Chair for 4 years they can reapply and be selected for another 4 years at which time they must rotate off. The selection of TC chairs will proceed as follows: 1. selection of candidate names by the TC members, 2. vote of the TC committee members to select one name, 3. recommendation of the selected Chair to the Chair of TOC, 4. recommendation of the TOC Chair to the President, 5. the President makes the final decision. This process may take time but the work of the committee will not be interrupted by this process. Let me remind you as well that, according to the new rules, while the voting members of a TC are limited to 2 per Member Society (country), there is no limit to the number of Corresponding Members that a country can have on a TC. In all cases a TC member must be nominated by the corresponding member society in an email to the Secretary General. The goal is to let anyone participate if they wish and are qualified but they cannot continue to be on a TC if they do not contribute.

**Time Capsule and PRC work**: As you may know, we created about one year ago a Board Level Committee called Public Relations Committee (PRC). The long term goal of this committee is to impact the image of our profession with the general public and the news media. **Marc Ballouz** is the chair of PRC and has accomplished a lot of great work in relatively little time. PRC is working on several projects including a tri-fold on geotechnical engineering, a web site on geotechnical engineering for the general public and news media, a YouTube video on geotechnical engineering and ISSMGE, and a time capsule. The time capsule is what I wish to talk to you about. While the final decision is still in the air, here is what we have in mind. Each society would have the opportunity to place one small item in a barrel size container which would be the time capsule. This time capsule would be kept in a secure place and opened in 150 years. Please bring your ideas, your items to Paris for an exciting discussion of how to optimize this time capsule project. Feel free also to write to me and **Marc Ballouz** with your ideas ahead of time: what should be in the time capsule and how long should it be before it is open again?

**YGEC conferences**: I would like to encourage all 6 regions of the ISSMGE planet to host at least one Young Geotechnical Engineers Conference every two years. Some regions already do that but some only have one every 4 years. I believe that the time has come where the young generation is being mobilized and would like to have such conferences in each region on a two year basis. Please work with your region Vice President to establish such a sequence in the future.

**GeoMap –** I am pleased to announce that GeoMap is a new feature now available in the GeoWorld platform at http://www.mygeoworld.info/map. The GeoMap geo-locates all 2200+ members of the GeoWorld professional networking platform, all case histories published in the ISSMGE International Journal of Geoengineering Case Histories http://casehistories.geoengineer.org, the most comprehensive database of geo-events (including conferences, symposia, workshops, webinars etc.) positioned on the map, and the latest geo-news as published in the Geoengineer.org News Center. This information is updated automatically, and thus, the map will from now on

always feature fresh content. This is yet another innovation of **Dimitris Zekkos** (chair) and his Innovation and Development Committee.

## 2. Forty Sixth Progress Report

This is my forty sixth and last progress report after 1400 days as your President. Note that previous reports are on the ISSMGE web site at http://www.issmge.org/en/the-society/the-president/progress-reports if you need them. In this report, I will say good bye.

The main thing I wish to tell you is thank you, thank you, thank you from the bottom of my heart. Thank you for having me as your President and letting me serve you for the last 4 years. You have created 4 of the best and most rewarding professional years of my life. You elected me in Alexandria and I suddenly found myself on the same list as Terzaghi, Peck, Skempton and many other giants in our profession. It was very humbling and put a lot of pressure on my shoulders to do the best job I could do. Four years later I can assure you that I have given it everything I had. I have a lot of people to thank for this fantastic journey: the Board Members, the Secretariat, the Chairs of the Board Level Committees and of the Technical Committees, the Leaders of the Member Societies for their hospitality, and all of you for your kindness and hard work. I also wish to thank my wife Janet for giving me the freedom and the time to be President. She was a rock in a soil's world. She supported me and kept me honest all along including when I came home after my election in 2009 and I asked her how she felt to be married to the President of the International Society. She responded by saying "President Briaud, don't forget to take care of the garbage!"

I attach a write up of what has happened in the last 4 years in case you cannot come to Paris at the opening ceremony where I will present the State of the Society. I also thought that I would share with you my 10 rules of success developed with the help of others including Clyde Baker.

10. Chose the relentless pursuit of excellence as a way of life
9. Be curious. The discovery process is a fountain of youth
8. Work hard but balance your interests (fun, family, sport, art, world news)
7. Make lots of friends. Nurture your public relations
6. Look for solutions and not who is to blame. Leave that to the judge.
5. Be firm in your decisions but always fair and polite
4. Treat others as you wish to be treated, you will lead by example
3. Communication is the best way to solve problems. Convince through logic and data
2. Surround yourself with smart people and role models
1. Go after your dreams with vision and perseverance

I believe in team work and the ultimate team is the family. I think that we have developed a better sense of family in our society and we are stronger for it. I say good bye as your President, but it will be my pleasure to become again a regular member of ISSMGE and to continue to serve you to the best of my ability. You certainly can continue to count on me if I can help. While I will no longer be your president, I will have the same desire to help you and to help the professional family. You mean a lot to me. Thank you again for all your kindness, take care, and remember that happiness is a choice. See you soon in Paris.

Best wishes,

**Jean-Louis BRIAUD**
**President of ISSMGE**
International Society for Soil Mechanics and Geotechnical Engineering
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URL: http://ceprofs.tamu.edu/briaud/

**ISSMGE 2013 Report by Prof. Jean-Louis Briaud** - Please click to download

# 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, participates, and avails to state-of-the-art lectures and papers in the local, regional, and international geotechnical conferences at discounted registration fees.
4. The chance to network with other geotechnical engineers, academics, and practitioners around the world as SEAGS member automatically becomes member of ISSMGE.
5. The opportunity to fraternize with professionals of related fields of geology, geophysics, and rock mechanics through the association of ISSMGE with the International Society for rock Mechanics (ISRM) and International Association of Engineering geology (IAEG).

# CONFERENCES IN ASIA

## FIFTEENTH ASIAN REGIONAL CONFERENCE – NOVEMBER 2015, KYUSHU, JAPAN

The Fifteenth Asian Regional Conference will be held in Kyushu, Japan in November 2015. The Japanese Geotechnical Society (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. 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 Asian Regional Conference held in Japan. So all JGS members are now expecting to host the 15th Asian Regional Conference at Fukuoka in Kyushu, Japan and then, we hope to exchange fruitful discussion with you on any issues on Geotechnical Engineering and to find out the solutions to be solved on those 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 Geoenviroment 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:*
*E-mail: 15tharc@kumamoto-u.ac.jp*
*Website: www.jgskyushu.net/uploads/15ARC*

# CONFERENCES OUTSIDE ASIA

## EIGHTEEN INTERNATIONAL CONFERENCE ON SOIL MECHANICS AND GEOTECHNICAL ENGINEERING (18TH ICSMGE) 1 – 5 SEPTEMBER 2013, PARIS, FRANCE

The Eighteenth International Conference on Soil Mechanics and Geotechnical Engineering (18th ICSMGE) will be held in Paris, France from 1 to 5 September 2013. The theme of the conference is "Challenges and Innovations in Geotechnics".

*For further information, please visit: www.paris2013-icsmge.*

# INTERESTING WEBSITES

http://www.swedgeo.se/templates/SGIStandardPage____184.aspx?epslanguage=EN
http://www.swedgeo.se/templates/SGIStandardPage____186.aspx?epslanguage=EN

– The SGi-Line is a literature database containing references to international geotechnical and geoenvironmental literature in a broad context, from practical solutions to theoretical analysis. The database is one of a small number in the world specialized in geotechnical and goenvironmental engineering. The database contains some 70,000 references from 1976 up to present. The database is continuously updated and expanded with about 2,000 references a year. Several references added during the recent years links to further information, full-text documents or abstracts/table of contents. SGI-Line is produced by the Swedish Geotechnical Institute, Sweden. Most of the documents, books, articles in journals, papers in conference proceedings, reports, theses, ets, referred to in the database are available in the SGI Library.
Link to more information on the Database (Information sheet)
http://www.swedgeo.se/upload/SGI-tjanster/pdf/SGILine-english-2007.pdf

http://delab.csd.auth.gr/~lakritid/index.php?lan=1&s=2 – QuadSearch are metasearch engines that are web services designed to transfer the user's queries to multiple existing search engines. A metasearch engine does not maintain its own index of documents. It collects and reorganizes the result lists (top-k lists), then it returns the processed data to the user. Compared to a classic single search engine, a metasearch engine offers increased web coverage, improved retrieval effectiveness, effortless invocation of multiple search engines.

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

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.

http://cebulletin.com/forum/forumdisplay.php?f=56
http://engineerexplained.com/VincentChuColumn/#T1
http://engineeringcivil.com/ask-an-expert
http://aboutcivil.com/answers/
http://www.rockware.com/catalog/geot.html?source=google
http://www.soilvision.com/
http://www.gaea.ca/
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| 2. | | Proceedings of the International Symposium on Geotechnical Engineering. Ground Improvement and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming. Conference CD, 3 to 4 December 2009 | 50 | 10 | 15 |
| 3. | | Proceedings of the 16th Southeast Asian Geotechnical Conference, 8 to 11 May 2006, Kuala Lumpur (Vol. 1=964 pages) | 150 | 21 | 29 |
| 4. | | Proceedings of the International Symposium on Geotechnical Aspects of the Suvarnabhumi Airport Thailand | 50 | 10 | 20 |
| 5. | | Proceedings of the 15th Southeast Asian Geotechnical Conference, 22 to 26 November, 2004, Bangkok (Vol. I = 1,000 pages/ Vol.2 = 210 pages) | 100 | 21 | 29 |
| 6. | | Proceedings of the Malaysian Geotechnical Conference 2004, The Institute of Engineering Malaysia, 16-18 March 2004 (524 pages) | 100 | 14 | 21 |
| 7. | | Proceedings of the 14th Asian Regional Conference on Geotechnical Engineering Meeting Society's Needs, Hong Kong, 10-14 December 2001 (2 Volumes) | 100 | 10 | 15 |
| 8. | | Proceedings of the GEOTECH-YEAR 2000, Developments in Geotechnical Engineering, Bangkok, Thailand, November 2000.All Volumes. | 100 | 16 | 22 |
| | | Volume I (452 pages) Hard Bound | 55 | 10 | 15 |
| | | Volume ii (734 pages) Hard Bound | 65 | 15 | 20 |
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| 11. | | Proceeding of the 30th 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 12th Southeast Asian Geotechnical Conference and the 4th 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 11th 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 |
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| 19. | | Handouts of the Short Course on Deformation of Soils and Rocks and Displacement of structures - Soil and Rock structure Interaction. 4-8 November, 1996 (1165 pages) | 60 | 26 | 37 |
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# BOOKS FOR SALE

## DEFORMATION ANALYSIS IN SOFT GROUND IMPROVEMENT – JINCHUN CHAI & JOHN P. CARTER

This book deals with the behavior of soft ground improved by some of the more common methods, including the installation of prefabricated vertical drains (PVDs), or the installation of soil-cement columns formed by deep mixing, or the preloading of soft ground by application of a vacuum pressure in addition to, or instead of, a surcharge loading. The book commences with a brief description of the various ground improvement methods and then describes general techniques for modeling the behavior of soft clay subsoils by the finite element methods, as well as details of the methods for modeling soft soils improved by the installation of PVDs. The book is directed towards students of geotechnical engineering as well as geotechnical practitioners.

Series: Geotechnical, Geological and Earthquake Engineering Vol.18
Ist Edition., 2011, XVII, 247 p. 182 illus., in color
ISBN 978-94-007-1720-6

## SOFTWARE PROGRAMME FOR DESIGNING COLUMNAR REINFORCED SOILS – M. BOUASSIDE & L. HAZZAR

The design of foundation built on columnar reinforced soils (stone or sand compacted columns, deep mixing, etc. ) basically requires, first, the verification of the increase in bearing capacity, and then the verification of settlement reduction. For practical and comparison purposes "Columns" software also provides the estimations of bearing capacity and settlement by existing standards. The user's manual of Columns software is free downloaded from www.simpro-tn.com ; acquiring the latest version of Columns 1.01 and its assessment report is possible upon request by sending a message to: contact@simpro-tn.com

## GEORISK – ASSESSMENT AND MANAGEMENT OF RISK FOR ENGINEERED SYSTEMS AND GEOHAZARDS – KOK-KWANG PHOON

GEORISK covers many diversified but interlinked areas of active research and practice, such as geohazards (earthquake, landslides, avalanches, rockfalls, tsunamis, etc.), safety of engineered systems (dams, buildings, offshore structures, lifelines, etc.) environmental risk, seismic risk, reliability-based design and code calibration, geostatistics, decision analyses, structural reliability, maintenance and life cycle performance, risk and vulnerability, hazard mapping, loss assessment (economic, social, environmental, etc.) GIS database, remote sensing, and many other related disciplines.

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http://www.tandf.co.uk/journals/recommend/journals.asp

## SOIL MECHANICS FUNDAMENTALS – EXPLAINS SOIL BEHAVIOR THROUGH MATHEMATICS, PHYSICS AND CHEMISTRY – ISAO ISHIBASHI & HEMANTA HAZARIKA

Based on authors' more than 25 years of teaching soil mechanics to engineering students, Soil Mechanics Fundamentals presents a comprehensive introduction to soil mechanics, with emphasis on the engineering significance of what soil is, how it behaves and why it behaves that way. Each chapter is accompanied by example and practicing problems that encourage readers to apply learned concepts to applications with a full understanding of soil behavior fundamentals. With this text, engineering professionals as well as students can confidently determine logical and innovative solutions to challenging situations.

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## LABORATORY TESTING OF SOILS, ROCKS AND AGGREGATES – N. SIVAKUGAN, A. ARULRAJAH & M.W. BO

Testing rocks and aggregates are rarely covered in soil testing books and there are no separate books on rock or aggregate testing. Laboratory Testing of Soils, Rocks and Aggregates includes laboratory testing methods for most tests for soils as well as rocks and aggregates, which are becoming increasingly common in professional practice and university teaching. Part A gives a general overview of laboratory measurements, equipment, units, safety and standards. Part B covers soil tests from grain size distribution to consolidation, triaxial and direct shear tests. Part C covers rock tests, which includes the indirect tensile strength test and point load test. Part D covers the common tests carried out routinely on aggregates, which includes the aggregate impact value test and Los Angeles abrasion test. Each test consists of the following descriptive parts: Objective, Standards, Introduction, Procedure, and Cost. References are made to ASTM International (ASTM), Australian (AS), British (BS) and International Society of Rock Mechanics (ISRM) standards and any differences are noted.

*Order online at*
*www.jrosspub.com/Engine/Shopping/catalog.asp?store=&category=&itempage=&item=14258&itemonly=1*
*www.amazon.com/Laboratory-Testing-Soils-Rocks-Aggregates/dp/1604270470*

## DESIGN ANALYSIS IN ROCK MECHANICS – WILLIAM G. PARISEAU

Supplying numerous example problems illustrating design analysis techniques, this text approaches important design issues in rock mechanics from a mechanics of materials foundation. It addresses roc slope stability in surface excavations, shaft and tunnel stability, and entries and pillars. The book also covers three-dimensional caverns with an emphasis of backfill and cable bolting and addresses the geometry and forces of chimney caving.

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## NUMERICAL METHODS IN GEOTECHNICAL ENGINEERING – HELMUT F. SCHGWEIGER

An overview of recent developments in constitutive modeling, this book presents numerical implementation issues as well as coupled and dynamic analysis. It features a special section dedicated to the numerical modeling of ground improvement techniques, with applications of numerical methods for solving practical boundary value problems such as deep excavations, tunnels, shallow and deep foundations, embankments, and slopes.

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## GEOMECHANICS AND ENGINEERING – AN INTERNATIONAL JOURNAL

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- Analytical, computational, and experimental multiscale and interaction mechanics
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Geomechanics and Geoengineering is a major publication channel for research in the areas of soil and rock mechanics, geotechnical and geological engineering, engineering geology, geo-environmental engineering and all geo-material related engineering and science disciplines. The journal provides an international forum for the exchange of innovative ideas, especially between researchers in Asia and the rest of the world. Geomechanics is concerned with the application of the principle of mechanics to earth-materials (namely geomaterials). Geoengineering covers a wide range of engineering disciplines related to geo-materials, such as engineering, engineering geology and geo-environmental engineering.
*For more information, please visit: www.tandf.co.uk/journals*

## GEOSYNTHETICS: PROTECTING THE ENVIRONMENT

This new publication presents recent advances in the design, manufacture, development and use of geosynthetics in environmental applications. Contents of this publication are as follows:

- Hydraulic properties of geosynthetic clay liners
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- Use of geosynthetics in landfill sweep wall lining systems
- Design interface shear strengths
- Application of electro kinetic geosynthetics
- Other environmental applications
- Applications of geosynthetics in sustainable drainage systems
- Protection and drainage in landfills
- Geomembrane liner durability
- Geotextile bags for the containment filtering and decontamination of slurry
- Theoretical approach to designing protection: selecting a geomembrane strain criterion
- Use of geocomposite drains in landfill leachate drainage systems: the challenges

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## ADVANCED LANDFILL LINER SYSTEMS

The contents of this book are Mechanical loading on earthen liners, damage due to subsidence, Water balance, the risk of desiccation in earthen liners, Contaminant transport, fundamental and minimization, Physical, chemical and biochemical influences on mineral liner materials, Construction techniques, quality management, Cut-offs walls, Safety and system analysis, Geotextile protective layer system for geomembranes, Leachate drainage systems, Influence of mechanical loading on the performance of mineral landfill liners, Investigation of limiting values of deformability of mineral landfill liners by simulation of deformations in 1:1 scale tests, Construction techniques in the construction of composite landfill liners, Development of proposals for liner structures-theoretical and experimental investigation, Redox-dependent mineralogical and chemical changes in clayey basal liners and more.

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## GEOTECHNICAL ENGINEERING OF LANDFILLS

Geotechnical engineering of landfills is a symposium designed to provide a forum for the presentation of recent developments in the design, construction and operation of landfill facilities. Contents: Mechanical properties of landfill waste, Compression of waste and implications for practice, Stress states in, and stiffness of, landfill waste, Issues related to mineral liners, properties and testing of clay liners, Issues related to the use and specification of colliery spoil liners, the design and control of bentonite enriched soils, geosynthetics in landfill design, the stability of geosynthetic landfill lining

system, Performance testing of protection materials for geomembranes, Engineering properties and use of geosynthetic clay liners.

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## SPECIAL ISSUE OF GROUND IMPROVEMENT JOURNAL ON SUSTAINABILITY IN GROUND IMPROVEMENT PROJECTS

Sustainability will play a pivotal role in the development of new and existing infrastructure. This requires infrastructure that is built (a) utilising materials and processes that are environmentally friendly and (b) combining practices that are socially and economically acceptable. Under the theme of sustainability in ground improvement, in line with the general theme of 'meeting human needs whilst accepting environmental limits', a special issue of the journal is to be published in November 2009. Authors are invited to submit papers that examine solutions and designs that aim at enhancing and promoting greater sustainability within the ground improvement processes. All aspects of sustainability in ground improvement will be considered. In particular key areas where papers are invited include

- Applications of innovative materials for the ground improvement and stabilization of problematic soils including: soft, collapsible and expansive soils; life cycle costs and benefits; relevant environmental costs and benefits; relevant environmental issues and regulations
- Management of wastes and treatment of contamination sites via ground improvement methods
- Case histories illustrating the cost and benefits of more sustainable practices in ground improvement
- Assessment and implementation of greater sustainability in ground improvement practice.

*Margaret Tomlinson, Institution of Civil Engineers, Heron Quay, London E14 4JD Tel. +44 (0)20 7665 2453*
*Email: margaret.tomlinson@thomastelford.com*
*Website: www.groundimprovement.com*

## SOILS AND ROCKS – AN INTERNATIONAL JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING

Soils and Rocks publish papers in English in the broad fields of Geotechnical Engineering, Engineering Geology and Environmental Engineering. The Journal is published in April, August and December. The journal with the name "Solos e Rochas", was first published in 1978 by the Graduate School of Engineering-Federal University of Rio de Janeiro (COPPE-UFRJ). A special issue of the Soils and Rocks Journal on" Embankments on Soft Soils" will be published in 2011.

*Contact: ABMS*
*Av. Prof. Almeida Prado 532, IPT/DEC, Predio 54*
*05508-901*
*Sao Paulo, SP, Brazil*
*E-mail: soilsandrocks@soilsandrocks.com.br*

## SIMPRO (TUNISIA) – SOFWARE COLUMNS 1.0

Development of geotechnical studies for the design and implementation of all types of civil engineering works: building, roads, bridges and etc. Columns software is available in French and in English version and includes the option of US units. The manual user guide of columns 1.0 can be downloaded from www.simpro-tn.com .

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## SOILVISION SYSTEMS – 2D TO 3D MODEL EXTRUSION

SoilVision Systems Limited provides next-generation finite-element modeling and database software technologies to geotechnical engineers worldwide. The products apply new technologies such as automatic mesh refinement and database technologies to provide fast solutions to 2D and 3D problems with complex geometry and unsaturated conditions. This method involves taking a two-dimensional cross-section of a numerical model, typically in profile view, and extruding it in the

third dimension to form a full three-dimensional numerical model. **This feature is freely available to all existing users of the SVOffice 2009 versions of SVFlux™, ChemFlux™, SVAirFlow™, SVSolid™ and SVHeat™.** This new methodology greatly simplifies the creation of a number of different types of three-dimensional numerical models. Since a number of geotechnical structures are long in one particular dimension, this model design methodology presents a reasonable and fast alternative for creating numerical models. Once numerical models are extruded to three dimensions, they are consistent with all other 3D numerical models and may be edited to have variation in the third dimension.

Typical applications of this new methodology include the following:

- Levee structures
- Earth dams
- Extended slopes
- Roads and transportation structures

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**GEOTECHNICAL SLOPE ANALYSIS – DR. ROBIN CHOWDHURY, DR. PHIL FLENTJE & DR. GAUTUM**

This reference book gives a complete overview of the developments in slope engineering. Freshly updated and an extended version on Slope Analysis with it's multidisciplinary, critical approach and the chapters deveoted to seismic effects and probabilistic approaches and reliability analysis, reflect the distinctive style of the original. Subjects discussed are: the understanding of slope performance, mechanisms of instability, requirements for modeling and analysis, and new techniques for observation and modeling.

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2. The opportunity to submit papers for publication and to read up-to-date technical papers through the 4 issues per year of the SEAGS Geotechnical Engineering Journal.
3. The ability to attend, participate, and avail state-of the-art lectures and papers in the local, regional, and international geotechnical conferences at discounted registration fees organized in Southeast Asia, Asia and other parts of the world, respectively.
4. The chance to network with other geotechnical engineers, academics, and practitioners around the world because being SEAGS member automatically becomes member of International Society of Soil Mechanics and Geotechnical Engineering (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 of Rock Mechanics (ISRM) and the International Association of Engineering Geology (IAEG).

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